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## Title word cross-reference

*D* [BMY20, HdBCAM21].  $\ell_1$  [Hua20, LS22b].  $\ell_p$  [AFW22, WSB<sup>+</sup>23]. *F* [PLD21]. *k* [CGZ22b]. *M* [GLN20, LY20, RW20b]. *n* [SHSS<sup>+</sup>21]. *p* [BCL<sup>+</sup>23]. *S* [LGRG23]. *U* [BKS21, HXWP21].

**-estimation** [LGRG23]. **-estimator** [GLN20]. **-estimators** [LY20, RW20b].  
**-means** [KKZ21]. **-norma** [LS22b]. **-optimal** [BMY20]. **-penalized** [Hua20].  
**-regularized** [WSB<sup>+</sup>23]. **-statistic** [BKS21]. **-statistics** [HXWP21]. **-tests** [PLD21]. **-values** [BCL<sup>+</sup>23].

**2876** [BGvZ21].

**40** [BGvZ21].

**acceptance** [STG21]. **accuracies** [JS22]. **accuracy**

[Goo22, KRSW21, Zhi20]. **across** [HT23]. **action** [WQW23]. **activation** [Kut20, SH20a]. **acyclic** [RERS23]. **adaptable** [LAP<sup>+</sup>20]. **Adaptation** [FGKS21, CW22a, CW22b, PS22]. **Adaptive** [ALMM22, BBNW20, BNX22, CG21b, CCNT21, DW23a, GLCS20, HS21a, RCS21, SvZ20, AWS22, CW21, CW22a, CP22a, DP21, FGS21b, LH23, MM21, PHL20, RCSN22, TSY20, WGS<sup>+</sup>22]. **Adaptively** [BNR23]. **adaptivity** [JKL21]. **addition** [SM23]. **Additive** [JP20, JPV21, CP22a, GMW21]. **Adjusted** [ZA23, ZWH<sup>+</sup>20, ZGV22]. **admissibility** [DLY22, Str21]. **Admissible** [MS20, VWW22, DR21a, GHS21]. **adversarial** [BJ23, JS22, TY23]. **advisor** [vdGK21]. **Affine** [DP22]. **Affine-equivariant** [DP22]. **after** [Tia20]. **alarm** [Pol21]. **Algorithm** [ZCW22, CP22a, FGS21b, GZ22b]. **algorithmic** [ZJ23]. **algorithms** [BB21, BV20, BGL<sup>+</sup>20, DC23, Fan22, SWJ21, STG21, SL23]. **All-in-one** [DM22]. **Almost** [Cox20]. **alpha** [DDP21]. **alpha-divergence** [DDP21]. **alternatives** [PS20]. **AMP** [CFM23]. **analyses** [CCF21]. **Analysis** [JMM20, NLS21, SWJ21, AFWZ20, BSS20, BW23, CZ21, CLP21a, CvdP21, Cho20, DKA20, Dob20, JS22, PV20b, RSH20, RW20b, SO23, SHSS<sup>+</sup>21, SLY22, SWZ22, WSB<sup>+</sup>23, ZC23]. **Analytical** [LW20]. **Ann** [BGvZ21]. **application** [AR21, ALPW22, BCPW23, HYF23, KJJS20, KJJS22, LUZ21, LLM20, RY21, SG20, SMZ22]. **applications** [BZ21, BBNW20, BBSMW22, CBS20, CMW23, CP21a, CC23, CM22b, DZ23, EJ20, EB22, GSS22, HW21a, HLS22, LEV21, LWL21, VW21, ZCW22]. **approach** [BDH21, CZ21, Che22, DP21, DM23, DW23b, GKM21, HdBCAM21, PV20b]. **Approximate** [KYZ21, SS22, BJ22, JSLH23, MV21, Fan22]. **approximation** [Che21, DZ20a, Goo22, Kol22, Lop22]. **approximations** [AR20, CCKK22, DZ23]. **arbitrary** [VWW22]. **Archimax** [CFN20]. **ARFIMA** [HCCI22]. **armed** [CP22a, Cha20]. **array** [CT22]. **array-based** [CT22]. **arrays** [DDG21, HLS22, PWLL21, SM23]. **Assessment** [KS20, CFNP21]. **asset** [BCPW23]. **Assigning** [KPST23]. **assisted** [BGL<sup>+</sup>20, DQW20, Tan20]. **associated** [LZ22a]. **association** [HLM23]. **assumption** [BNR23, FGRS22]. **assumptions** [BG21, HJ20]. **asymmetrically** [CCF21]. **Asymmetry** [CCF21]. **Asymptotic** [BB21, Bha20, CVFL22, DR21b, GFLS21, Goo22, Hua20, HS21b, KJJS20, LHY20, QLY23, RS20b, SW07, SWZ22, ZPZ22, KLR<sup>+</sup>20, KZ21, LEV21, LS22b, SWFD21, KJJS22, ZSW22]. **Asymptotically** [HXWP21, FY23, KB22, Pol21]. **Asymptotics** [CM21, HSS22, Han23, Li22, LW22, LSW21, YZZ22]. **Augmented** [HW21b]. **autocovariance** [BS23a]. **autoregression** [AF23]. **autoregressions** [CM21]. **autoregressive** [GKM21, WT23, DZ23]. **auxiliary** [CCZ22]. **Average** [SAH21, LL22, LQW<sup>+</sup>22, PMM<sup>+</sup>20, YNB<sup>+</sup>22]. **average-case** [PMM<sup>+</sup>20]. **Averages** [KLR<sup>+</sup>20]. **averaging** [DS21, KBW20].

**Backfitting** [GHO22]. **backward** [DC23, LSV20]. **balancing** [WQW23].

**balls** [HJWW20, MM21]. **Banach** [DKA20]. **bandable** [LR20b]. **bandit** [Cha20]. **bandits** [CP22a]. **bands** [DW23b, PLD21]. **barriers** [CM22a, SW22]. **based** [ALMM22, Bha20, BDH21, CFF20, Cha22b, CT22, DDP21, Dob22, GKM21, LEV21, LY20, LS22a, MPW23, OQC22, RGvdL22, ZD22, ZZYS20, ZS20]. **basis** [BCCP23]. **Batch** [LQW<sup>+</sup>22]. **Bayes** [ADX20, BB20, BG20, CR20, DR21a, GvdVZ20, HKS21, MS20, MJ22]. **Bayes-like** [BB20]. **Bayesian** [AD22, BSS20, CvdP21, CR21, CLP21b, DRR20, GKM21, GR22, Kle21, Li22, MNP21, PR22, RvdV20, RSH20, RvdP20, RS20b, WG23, ZC23]. **Beginning** [EG21]. **behavior** [KLR<sup>+</sup>20]. **benefits** [KM21a]. **Berry** [Zhi20]. **best** [WWM20]. **Betti** [RKP23]. **between** [BB21, CGK22, DDB20, HLM23]. **Beyond** [AL21, DZ20a, PS20, BCRT23, CC23]. **Bias** [KZ21, DSH23]. **bias-variance** [DSH23]. **binary** [FNZ22, LUZ21]. **binomial** [SHSS<sup>+</sup>21]. **biomarker** [HS22]. **bit** [DMR22]. **bivariate** [Efr22, MPW20]. **block** [BZ23b, HZ20, KW22, XJL20, ZLN22, ZA23, ZVB21, SPY20]. **blocks** [ZVB21]. **Board** [Ano23a, Ano23b, Ano23c, Ano23d, Ano23e, Ano23f]. **Boosted** [LCI21]. **boosting** [LS22b]. **Bootstrap** [DZ20a, Hid21, Kol22, LY20, CZ20, CCKK22, HL20, IM21, Lop22, MPK20, ZP22, Zhi20]. **Bootstrapping** [LLM20, RKP23]. **boundary** [EB22, RSH20, SM20]. **bounded** [CG21b]. **Bounds** [YNB<sup>+</sup>22, BNR20, DSH23, GLCS20, JSLH23, KR20, OQC22, OvdG21, RW20a]. **breaker** [LO23]. **Breaking** [MWW23]. **Bregman** [BFL21, SWJ21]. **bridge** [WWM20]. **Bridging** [CFMY21, DDB20, FMM23]. **broad** [CT22]. **bulk** [FSW21].

**calculations** [BBSMW22]. **calibrated** [Tan20]. **Calibration** [VW21, FL22]. **can** [LR20a]. **Canonical** [AV23, SF22, SS20]. **Carlo** [AL21, DMS20, FT23, HBDD20, KJJS20, KJJS22, MMS23]. **CART** [CR21, CC23]. **Carving** [Pan23]. **case** [PMM<sup>+</sup>20]. **Causal** [GMPE21, BFPM21, IM21, KS20, KBG20, RvdV20, ZD22]. **censored** [DQW20, Efr22, HPTZ22, TYZ20]. **censoring** [Efr21]. **Central** [LWL21, Lop22, CCKK22]. **chain** [BS23a]. **chains** [ALPW22, DDB20, Kol22, SPY20]. **change** [CNYY21, DM20, FLS20, HKW21, LGS21, VFLRB23, WYR21, WZVS22, ZWL20]. **change-point** [CNYY21, DM20, FLS20, VFLRB23]. **change-points** [ZWL20]. **changing** [Dre23]. **characteristic** [TCPS23]. **characterization** [KLR<sup>+</sup>20, LO23]. **Characterizing** [BKRS23]. **Charles** [EG21, Str21]. **charts** [Pol21]. **chi** [ZA23]. **chi-square** [ZA23]. **choice** [MBR21]. **Cholesky** [LR20b]. **Choosing** [CGK22]. **class** [BSS20, CT22, GX20, WZL22]. **classes** [ZC23]. **Classification** [KRSW21, CW21, CBS20, HS22, JS22]. **classifier** [CW21]. **classifiers** [LS22b]. **classifying** [KBG20]. **closed** [GHS21]. **CLT** [LHBS23, SMZ22]. **cluster** [Leu22]. **cluster-randomized** [Leu22]. **Clustering** [SPY20, AFW22, AR21, ADXR20, BBNW20, BFL21, BGL<sup>+</sup>20, GM22, KKZ21, LZZ21, LZ22b]. **co** [BJ22]. **co-sufficient** [BJ22]. **coefficients**

[GW22]. **Cointegration** [BG22]. **columns** [MWY23]. **combination** [HS22, VW21]. **combinatorial** [MW22]. **communication** [SvZ20, SvZ23]. **Community** [JLLX21, YQ21, CLM22, PC20, XJL20, YLFS22, ZZ20]. **compact** [KB22]. **compare** [DK22]. **Comparison** [ALPW22]. **comparisons** [CGZ22a, MW22, PMM<sup>+</sup>20]. **compatibility** [BS23c]. **complementary** [GW22]. **Completely** [BS23c]. **completion** [WP22, XYZ21]. **Complex** [HW21a]. **Complexity** [ZC23, MMS23, MN20, YZZ22]. **compliers** [KBG20]. **component** [Nda22, PRV20, SO23]. **components** [BDWW22, DY21, FSW21, KLN20, KM21b, MK21a]. **compound** [RSH20]. **computation** [PS22]. **Computational** [HMR23, SW22, SS22, CW20, HWZ22, LZ22b, LX23, ZZ20]. **computationally** [XYZ21]. **concave** [FGKS21, HS21b]. **Concentration** [AR20, AR21, SS20, PV20a, RvdP20]. **Concordance** [SSL21]. **Conditional** [FT23, FL22, SL23, AC21, BJ22, BFR23, CPH23, GSUC21, HHPS20, KNBW22, LSV20, LS22a, NBW21, SP20, YNB<sup>+</sup>22]. **conditioning** [HJ20]. **conditions** [KB22, Lah21, LY20, RCSN22]. **Confidence** [DHZ21, EB22, BPS20, BNR20, DW23b, FLS20, HRMS21, LY20, PLD21]. **Conformal** [BCRT23, BCL<sup>+</sup>23]. **confounding** [GCB22, YNB<sup>+</sup>22]. **conjunctions** [KS20]. **connected** [KL21]. **connections** [BS23c]. **connectivity** [YQ21]. **consequences** [KMW20]. **Consistency** [Dob22, GS22, PR22, AY23, GKM21, HKS21, JT21, Lah21, SS20]. **Consistent** [BCCG21, EJ20, HCCI22, ZWL20, DHS20, PC20, SHDH22]. **constancy** [SWFD21]. **constant** [DDB20, GHZ20]. **constrained** [BS23a, HS22, RW20b, dÁLM21]. **constraints** [HSS22, Han23, PTW21, RS20a, SvZ20, SvZ23, XS21]. **Construction** [PWLL21, HLS22]. **Contents** [Ano23g, Ano23h, Ano23i, Ano23j, Ano23k, Ano23l]. **Continuous** [RGvdL22, DKA20, SO23]. **Continuous-time** [RGvdL22, SO23]. **continuum** [CP22a]. **continuum-armed** [CP22a]. **contributions** [FS21, Str21]. **control** [CCZ22, FLS20, FL22, MM21, Pol21, RV22]. **Controlled** [HBDD20]. **controlling** [GHS21]. **Convergence** [WN22, XYY20, ZG20, ZW21, BB21, BE22, CWZ21, CW22b, CFM23, CPT23, CM22b, DHK<sup>+</sup>20, HS21b, KL21, RS20a]. **convex** [BZ23a, CZ21, CM22a, CFMY21, HSS22, Han23, LZ22a, PTW21]. **convexity** [CFM23, Cox20, JMM20]. **copula** [GKV<sup>+</sup>22, ZGV22]. **copulas** [CFN20, ES21]. **corrected** [ZA23]. **Correction** [BGvZ21, FZ21, LBvdL21, ZSW22]. **correlated** [DD23, DGR23]. **correlation** [GFLS21, HY22, LWL21, XY20]. **correlation-free** [XY20]. **correlations** [DHS20]. **corroboration** [KS20]. **cost** [CWZ21, CW22b]. **count** [CL22]. **Coupled** [LSV20]. **coupling** [JLL21]. **Covariance** [DMR22, AMR20, BD20, BDWW22, BSS20, CHP20, CP22b, CQZ23, DY21, DKH21, GLN20, HW20, LW20, LHY20, Li22, LHBS23, LSW21, LGRG23, MZ20, Mou22, QLY23, RW23, SP20, WP22, XYY20, ZW21, ZPZ22]. **covariate** [KM21a, LH23, MPW23, WL22]. **covariate-adaptive** [LH23].

**covariate-shift** [KM21a]. **covariates** [LCI21, LH23, WL22]. **Coverage** [CG21a, WG23, RS20b]. **Cox** [ZMW22]. **Cramér** [GSS22]. **Cramér-type** [GSS22]. **credible** [CG21a, RS20b, WG23]. **criteria** [CT22, SSL21]. **criterion** [BDSW22]. **criticism** [DK22]. **cross** [CC23, CLC21b, FJLX22]. **cross-sectional** [FJLX22]. **cross-validated** [CLC21b]. **cross-validation** [CC23]. **crossed** [GHO22]. **CrowdSourcing** [PCV23]. **Cube** [BE22]. **cure** [BEPV22, PV20b]. **current** [Efr21]. **curse** [MWW23]. **curved** [SS20]. **curves** [PLD21, TCPS23]. **cycles** [BFPM21].

**DAG** [ZC23]. **data**

[CLC<sup>+</sup>21a, CP21a, CPT23, CFMY21, CP21b, Che22, CL22, DSUC23, DKA20, DQW20, DM23, ES21, EH23, FWZ21, FNL20, FJLX22, HS21a, KL20, LS22a, LM21a, LLM20, MWY23, MP23, MK21b, RW23, RCSN22, SLY22, Tan20, TYZ20, WZVS22, WZL22, YSK21, ZWH<sup>+</sup>20, dRdCMP21]. **data-adaptive** [RCSN22]. **datasets** [Cha22a]. **debias** [XZZ22]. **Debiased** [YSK21, GCB22]. **Debiasing** [BZ23a, ZP22]. **decay** [LLM20]. **decision** [AO22a, CG21b, HW23, LQW<sup>+</sup>22, SSL21, YZZ22]. **decomposition** [JLLX21]. **Deconvolution** [GLL22, BG21]. **Deep** [JSLH23, ZMW22, KL21, Kut20, SH20a]. **degree** [SW22, ZA23]. **degree-corrected** [ZA23]. **delayed** [STG21]. **delayed-acceptance** [STG21]. **denoised** [WY20]. **denoising** [BDW21, CC23, FGS21a, GLCS20, SG20]. **dense** [XM23]. **densities** [KK20, NWB22, SG20]. **Density** [BG21, BE22, BFR23, Efr22, FGKS21, HT23, MJ22, PLD21, RCSN22, XS21, ZW21]. **dependence** [AC21, CLP21b, Dre23, EFdH<sup>+</sup>22, FL22, LEV21, SWFD21, Vel22, VWW22, ZZYS20]. **dependent** [CLP21a, DSUC23, GSS22, Ing20, LCI21, Pol21, YQ21, ZLN22, dRdCMP21]. **derivatives** [LL22]. **descent** [CLTZ20, DDP21, DDB20, ZS22]. **Design** [DLY22, HLS22, LFR21, PMM<sup>+</sup>20, SGWH20, ZD22]. **design-based** [ZD22]. **Designs** [JPV20, BMY20, CMW23, CT22, HW21a, KYZ21, Leu22, LO23, TX21, WM21]. **Detecting** [WGS<sup>+</sup>22]. **detection** [BM22, Bha20, CW20, CLM22, DM20, EKJ20, JLLX21, LGS21, PC20, VFLRB23, WYR21, YQ21, ZZ20]. **deviation** [ERV20, GSS22]. **deviations** [BDH21]. **difference** [Cha22b, SMZ22]. **difference-based** [Cha22b]. **differences** [DK22]. **differential** [CWZ21, CGC20, LBY23, RS20a]. **Differentially** [AMBL23, BRS23]. **diffusions** [AWS22, GR22, NR20]. **Dimension** [LS22a, DQW20, FGRS22, FNZ22, GMMM21, HdBCAM21, HS21a, KLYL20, LL22, ZZYS20]. **dimensional** [BDP23, BZ21, BCPW23, BV20, BW23, BFZ22, CZ21, CS20, CM22a, CP21a, CQZ23, CVFL22, DDP21, DZ20b, DQW20, DM23, DWYZ23, DHS20, FWZ21, FLY23, FNL20, FJLX22, GZ22a, GFLS21, GW22, GLP20, GMW21, GCB22, HW20, HSS22, HMRT22, HXWP21, Ing20, JZLM23, JO20, Kol22, LW20, LWL21, LS22b, LGS21, LHBS23, NR20, SF22, SV<sup>v</sup>Z23, Tan20, WS20, WZVS22, WT23, XS21, XY20, ZW21, ZC23]. **dimensions** [CCKK22, CLC21b, FT23, Han21, Han23, HS23, Lah21, LLHL21, LLM20,

Lop22, MBR21]. **diminishing** [WL22]. **directed** [RERS23]. **directions** [PRV20]. **disclosure** [CFNP21]. **discovery** [CCZ22, FL22, GLP20, GMPE21, GHS21, KR20, RV22]. **discrete** [GZ22b, HMR23, MBR21, SO23]. **discrete-time** [SO23]. **discriminant** [BW23, CZ21]. **discriminators** [MBR21]. **Discussion** [Kut20]. **disjoint** [BZ23b]. **Dispersal** [HT23]. **displacement** [JMM20]. **Distance** [ZZYS20, BBSMW22, CLP21b, ERV20, GFLS21, NWB22]. **Distance-based** [ZZYS20]. **Distributed** [CW22a, CW22b, CP21b, DS21, SvZ20, SVvZ23].

**Distribution** [HdBCAM21, XY20, BDW21, BG21, BB21, BSS20, Bha20, DW23b, Efr21, GLL22, HZ20, LHY20, MM21, Mur21, RV22, SHDH22, TY23, XYY20]. **distribution-free** [SHDH22]. **distributionally** [DN21]. **distributions** [AO22b, AV23, BBSMW22, GFLS21, HY22, HKW21, KKZ21, Lei21, MS20, PR22, PHL20, ZG20]. **divergence** [DDP21]. **divergent** [CHP20]. **diverging** [LHBS23, TYZ20, WL22]. **document** [BBSMW22]. **documents** [KPST23]. **domain** [AvD20, Hid21, Li22, LSW21, MPK20, RY21]. **Donoho** [BKRS23]. **Double** [DQW20]. **Double-slicing** [DQW20]. **Doubly** [GCB22]. **drift** [AWS22, CGC20, NR20]. **driven** [CHHW21, LLSS21]. **dyadic** [CC23]. **dynamic** [OQC22, WYR21]. **dynamical** [MN20].

**E-values** [VW21]. **edges** [AMR20]. **Edgeworth** [KK20, ZX22, Zhi22]. **Edgeworth-type** [Zhi22]. **Editorial** [Ano23a, Ano23b, Ano23c, Ano23d, Ano23e, Ano23f]. **effect** [CDRV21, JPV20, LW22, MH22, SM23, YNB<sup>+</sup>22]. **effects** [GHO22, KBG20, KYZ21, SAH21, Tan20]. **Efficiency** [FY23, STG21, KZ21]. **Efficient** [BS23a, BS23b, HLM23, KLN20, vdVW21, Cha20, XYZ21].

**Eigenvalue** [CCF21, CHP20, QLY23]. **eigenvalues** [CHP20, HY22, LHY20, ZZPZ22]. **eigenvector** [AFWZ20, CCF21, XYY20]. **elaborate** [KS20]. **elbows** [BRS23]. **elicitability** [FZ16, FZ21]. **ellipsoids** [ZS22]. **Empirical** [BG20, DDG21, ES21, MN20, BE22, BFR23, BEV20, CR20, CLvdG22, Han21, TYZ20, XYY20]. **energy** [CFM23]. **enrichment** [LFR21]. **entire** [FGS21a]. **entries** [XYZ21]. **entropic** [BB21, BNR23]. **entropy** [BFR23, HJWW20]. **Entrywise** [AFWZ20]. **enumerator** [TX21]. **Envelope** [ZS20]. **Envelope-based** [ZS20]. **equations** [CGC20, TYZ20]. **equivalence** [GM22, MH20, ZC23]. **equivariant** [DP22, MS20]. **ergodicity** [DMS20]. **Erratum** [KJJS22]. **error** [GZ22a, JZLM23, JSLH23, OQC22, RW20a, Tia20]. **errors** [BG21, JPV22, KP22]. **Esseen** [Zhi20]. **estimate** [CS20]. **estimates** [KL21, MJ22, ZW21]. **Estimating** [CDRV21, GZ22a, MK21a, BGvZ12, BGvZ21, JPV20, RCSN22, TYZ20].

**Estimation** [DZ20c, DK21, KZ21, Kol22, KM21b, MP23, MV21, PCV23, TCPS23, Vel22, ABL23, AWS22, BCCP23, BDP23, BB20, BZ23a, BS23b, BDM22, BFR23, BBNW20, BNX22, BBSMW22, BCCG21, BRS23, CWZ21, CLC<sup>+</sup>21a, CW22a, CW22b, CNY21, CG21b, CL22, CCNT21, CGC20,

DL22, DMR22, DRR20, DWYZ23, Efr21, Efr22, EJ20, FLS20, FGKS21, FNZ22, GHZ20, GM20, GSUC21, GLN20, Goo22, HJWW20, HWZ22, HPTZ22, HW21b, HT23, Hop20, HLM23, HR21, KLN20, KP22, LN22, LEV21, LW22, LR20b, LSW21, LGRG23, LM21b, LX23, MPW20, MS20, MZ20, MK21b, NWB22, OW21, PMM<sup>+</sup>20, RY21, RGvdL22, SW22, SH20b, SGWH20, Tan20, TSY20, TY23, WT23, WY20, XJL20, XS21, vdVW21]. **estimator** [DM22, GLN20, Hua20, MWW23, SG20, WWM20, YSK21, ZS22]. **estimators** [BZ23a, BE22, BDH21, CFF20, Cha22b, FY23, HZ20, HS23, HS21b, LY20, MMS23, RW20b, SMZ22]. **Euclidean** [CP21a, JPV21]. **Euler** [TCPS23]. **evaluation** [HW23]. **events** [EFdH<sup>+</sup>22]. **Evidence** [ZLSK22, KS20]. **Exact** [BV20, DGR23, Han23, Mou22, KYZ21]. **exchangeability** [BCRT23]. **exchangeable** [DDG21, WN22]. **Existence** [DKH21, CS20]. **expansion** [BCCP23, KK20]. **expansions** [ZX22, Zhi22]. **expected** [AFWZ20, TCPS23]. **expectile** [GSUC21]. **experiments** [DLY22, LH23, ZD22]. **exponential** [KMW20, LUZ21, LZ22a, SS20]. **exponential-family** [SS20]. **extended** [DR21a, HS21b]. **Extending** [MPK20]. **extension** [BEPV22]. **extensions** [FGS21a]. **extent** [KS20]. **extraction** [CP21a]. **extrema** [CM22b]. **extremal** [DSUC23]. **Extreme** [EH23, GSUC21, Dre23, EFdH<sup>+</sup>22, LHY20]. **extremes** [LEV21, REZ23, ZVB21].

**Factor** [LLSS21, BBNW20, BW23, Dob20, FMM23, LR20b]. **Factor-driven** [LLSS21]. **factorial** [TX21]. **factorization** [PC20]. **factors** [KS20, YNB<sup>+</sup>22, ZLSK22]. **fair** [AO22a]. **fairness** [CS22]. **False** [FLS20, RV22, BNR20, CCZ22, FL22, GHS21, KR20, Pol21]. **families** [BNR20, KMW20, LUZ21, LZ22a]. **family** [SS20]. **far** [AD22]. **feasible** [Cha22a]. **feature** [CP21a]. **field** [ZZ20]. **fields** [KB22, LSW21, NR20, TCPS23]. **filling** [CT22]. **filter** [LSV20]. **filtering** [CC23, GLCS20, WGS<sup>+</sup>22]. **filters** [CSSV22]. **Finetti** [WN22]. **Finite** [MMS23, AD22, KM21b, MK21a, Zhi22]. **Finite-sample** [MMS23]. **fit** [BJ22]. **fixed** [Li22, LSW21]. **fixed-domain** [Li22, LSW21]. **flat** [BATU23]. **flats** [WM21]. **flexible** [HLS22]. **forests** [CVFL22, MGS20, RvdP20]. **formal** [KK20]. **Foundations** [BFPM21]. **fourth** [BDM22]. **fourth-moment** [BDM22]. **fractional** [DK21, MP23, TX21]. **Frame** [dÁLM21]. **Frame-constrained** [dÁLM21]. **framework** [Cha22b, CC23, CS22, GvdVZ20, HWZ22, PHL20]. **Fréchet** [BM23, CM22b, DM20, LL22, LM21a, MH22, PLD21]. **free** [CFM23, FLY23, HK22, KBB<sup>+</sup>20, Pan23, SHDH22, XY20]. **frequency** [AvD20, Cho20, DK22, Hid21, MPK20, MP23, RY21, RW23, SWZ22]. **Frequentist** [Kle21, RS20b]. **full** [CGZ22a]. **fully** [KL21, SHDH22]. **function** [BCCP23, BGvZ12, BGvZ21, CW22b, Kut20, SH20a, SH20b]. **Functional** [DKA20, LL22, AvD20, BS23b, BRS23, CM21, ES21, KL20, LS22a, LLM20, SLY22]. **functionals** [KLN20, KZ21, Kol22]. **functions** [AMR20, CG21b, DKA20, DW23b, GH21, HdBCAM21, LSW21, WC20].

**Fundamental** [CM22a, EKJ20]. **Fuse** [MK21a].

**GANS** [BCST20]. **gap** [DDB20]. **Garza** [DLY22]. **Gaussian** [BATU23, CW22a, CMW23, DM22, DZ20a, DL22, DWYZ23, FGRS22, GIKM22, HSS22, Hop20, JT21, Kol22, Li22, LZZ21, LSW21, LX23, MNP21, Mur21, Nda22, RY21, SG20, WY20, ZLN22]. **Gaussian-subordinated** [ZLN22]. **genealogies** [KJJS20, KJJS22]. **General** [Cha22a, BG21, CMW23, Cha22b, FSW21, GvdVZ20, GSS22, Han21, LO23, MWY23, MPK20, PV20b, QLY23, TYZ20]. **generalised** [SP20]. **Generalization** [OQC22, LAP<sup>+</sup>20, MZ22]. **generalize** [LR20a]. **Generalized** [ZJS22, ALS23, FGS21b, HWZ22, LHY20, SWJ21, TYZ20]. **generalizing** [KBG20]. **Geometric** [KLR<sup>+</sup>20, Bha20, CP21a, DMS20]. **Geometrizing** [RS20a]. **geometry** [Eva20]. **Gibbs** [BCCP23, SM20]. **Global** [CLM22, CPT23, Cox20, Han21]. **go** [NLS21]. **goodness** [BJ22]. **goodness-of-fit** [BJ22]. **gradient** [CLTZ20, DDP21, DDB20, ZS22]. **gradient-based** [DDP21]. **gradually** [BDH21]. **graph** [Lei21, LW22]. **Graphical** [BR23, Che22, LZ22a]. **graphons** [ALS23]. **graphs** [AMR20, Bha20, BCCG21, Che22, DZ20b, DD23, GGCvL20, MH20, RERS23, SS20, XM23]. **GRID** [GLP20]. **group** [BMNT23, MK21a]. **Grouped** [HMR23]. **Groups** [MW22, AO22b, JPV22]. **growing** [MBR21]. **guarantees** [CPT23, MNP21, ZZ20, Zhi22].

**Half** [BDSW22]. **Half-trek** [BDSW22]. **Hamiltonian** [DMS20]. **hardness** [SP20]. **Hardy** [FGS21a]. **Hawkes** [CL22, DRR20]. **hazards** [CLP21a, LCI21]. **HC** [PS20]. **heavy** [BCCG21, DSUC23, FWZ21, GSUC21, GMPE21, HY22, KP22]. **heavy-tailed** [BCCG21, DSUC23, FWZ21, GSUC21, GMPE21, HY22, KP22]. **helps** [CW22a, CCF21]. **heterogeneous** [EH23]. **heteroscedastic** [GSUC21, KP22]. **Heteroskedastic** [ZCW22]. **hidden** [BNX22, GCB22]. **hierarchically** [CLP21a]. **hierarchy** [AO22a]. **High** [BCPW23, Cho20, DHS20, FWZ21, GCB22, HSS22, XS21, BDP23, BZ21, BV20, BW23, BFZ22, CZ21, CS20, CM22a, CP21a, CQZ23, CCKK22, CLC21b, CVFL22, DQW20, DM23, DWYZ23, FLY23, FNL20, FGRS22, FJLX22, FNZ22, FT23, GZ22a, GFLS21, GW22, GMMM21, GLP20, GMW21, HW20, Han23, HS23, HMRT22, HXWP21, Ing20, JZLM23, JO20, KR20, Kol22, Lah21, LS22b, LLHL21, LGS21, LLM20, Lop22, MP23, PV20a, PWLL21, RW23, SF22, SVvZ23, Tan20, WS20, WZVS22, WT23, XY20, ZW21, ZC23, ZZYS20]. **High-dimensional** [BCPW23, DHS20, FWZ21, GCB22, HSS22, XS21, BDP23, BZ21, BV20, BW23, BFZ22, CZ21, CS20, CM22a, CP21a, CQZ23, CVFL22, DQW20, DM23, DWYZ23, FLY23, FNL20, FJLX22, GZ22a, GFLS21, GW22, GMW21, HMRT22, HXWP21, Ing20, JZLM23, JO20, Kol22, LS22b, LGS21, SF22, SVvZ23, Tan20, WS20, WZVS22, WT23, XY20, ZW21, ZC23].



**High-frequency** [Cho20, MP23, RW23]. **high-probability** [KR20]. **Higher** [DK22, FZ16, OvdG21, FZ21]. **Hilbertian** [JP20]. **hoc** [BNR20]. **Hotelling** [LAP<sup>+</sup>20]. **HSIC** [ALMM22]. **Hunt** [EG21]. **Hurst** [SH20b]. **hypergraphs** [YLFS22]. **hypersphere** [KP23]. **Hypothesis** [JZLM23, WS20, AV23, CMW23, FZP20, GGCvL20, KS20].

**i.i.d** [BNR23, CGC20]. **Identifiability** [ADXR20, BDSW22, GX20, PRV20]. **ignorability** [HW23]. **image** [SM20]. **imbalance** [WL22]. **impacts** [LH23]. **importance** [DP21]. **Improved** [CCKK22]. **imputed** [Cha22a]. **incomplete** [CLC<sup>+</sup>21a]. **independence** [ALMM22, BJ22, BKS21, CPH23, DHS20, FJLX22, KNBW22, LEV21, MH20, NBW21, SP20, SHDH22, ZPZ22]. **independent** [DZ20a, HXWP21, MWY23, Pol21, SO23]. **index** [BM23]. **individualized** [CLM22, FNZ22]. **inequalities** [ALPW22, Zhi20]. **Inference** [CFN20, CHLZ23, DSUC23, HHPS20, LFR21, PV20a, RW23, WZVS22, XZZ22, XM23, AMBL23, BDWW22, BCS20, BCRT21, BZ21, BS23a, BEV20, CZ20, CLTZ20, CP21b, CHHW21, DZ20c, DZ23, Dre23, DK21, DP22, EH23, GFLS21, GH21, GR22, GMW21, GCB22, HYF23, HPTZ22, KLYL20, KW22, KBB<sup>+</sup>20, LBvdL21, NR20, PR22, PTW21, Pan23, RvdV20, SWZ22, SL23, SM20, Tan20, WC20, ZZ20, ZWH<sup>+</sup>20, ZJ23]. **inferences** [ZD22]. **Infinite** [DDP21]. **Infinite-dimensional** [DDP21]. **infinity** [AD22]. **information** [CCZ22, EB22, SSL21]. **informative** [CSSV22]. **inhomogeneous** [CLM22, GGCvL20]. **instrumental** [ZLSK22]. **instruments** [KBG20]. **integral** [DM23]. **integrated** [GKV<sup>+</sup>22]. **Integrative** [PTW21]. **intensity** [SMZ22]. **interacting** [KJJS20, KJJS22]. **interaction** [BCCP23]. **Interactive** [BRS23, CW22a]. **interference** [JPV20, Leu22, LW22, SAH21]. **interpolate** [LR20a]. **interpolated** [LS22b]. **interpolation** [HMRT22, MZ22]. **interpolators** [CLvdG22]. **interval** [BZ23a]. **intervals** [BPS20, CG21a, DHZ21, WG23]. **intervention** [RGvdL22]. **intervention-specific** [RGvdL22]. **Intrinsic** [SLY22, HS21a]. **invalid** [ZLSK22]. **invariance** [Dob22, EG21]. **invariance-based** [Dob22]. **invariant** [AO22b, Fan22, GIKM22]. **inverse** [Han23, LLHL21, MWW23, MNP21, YSK21]. **inverse-variance** [YSK21]. **Irreducibility** [DMS20]. **Ising** [BK20, GM20, XM23]. **Isotonic** [DZ20b, PS22, DHZ21, FGS21a, GHZ20, HZ20, MPW20, WG23]. **Isotropic** [AMR20, LSW21]. **Iterative** [GZ22b, CPT23].

**jackknife** [BCRT21]. **Joint** [GM20, LHY20]. **Just** [LR20a].

**Kendall** [LWL21]. **Kernel** [LR20a, AR21, SS22]. **kernels** [WP22]. **Kesten** [ALS23]. **knockoffs** [BCS20, HJ20, SJ22, WSB<sup>+</sup>23]. **Krause** [FGS21a]. **Kronecker** [DKH21].

**labels** [KM21a]. **LAGO** [NLS21]. **Large** [CFF20, KW22, BG22, CCZ22, DK22, GHO22, HTYZ20, HYF23, LW20,

LHY20, LWL21, LR20b, LHBS23, ZPZ22]. **large-dimensional** [LW20, LHBS23]. **Large-scale** [KW22, HTYZ20]. **largest** [CHP20]. **Lasso** [CMW23, GCB22, CHHW21, Lah21, CLC21b, MM21]. **LASSO-driven** [CHHW21]. **latent** [BDSW22, BCPW23, BW23, BFP21, GX20, SS23, WN22, WZL22]. **latent-class** [WZL22]. **law** [EH23]. **laws** [CHP20]. **layer** [JMM20, PC20]. **layers** [GMMM21]. **lazy** [MZ22]. **learn** [NLS21]. **learn-as-you-go** [NLS21]. **learnable** [SS23]. **Learning** [ALS23, BK20, DM23, DN21, MW22, ABL23, CW21, CBS20, DW23a, FS23, HS21a, HK22, LL20, LQW<sup>+</sup>22, NIS<sup>+</sup>21, OQC22, RCS21, SWJ21, WQW23, ZMW22, ZC23]. **least** [HMRT22, KP22, Mou22, OvdG21, ZS20]. **lengths** [Pol21]. **level** [BE22, RCSN22, WM21]. **Lie** [JPV22]. **lifetimes** [Efr22]. **like** [BB20]. **Likelihood** [BM22, BBSMW22, BEV20, BMNT23, CS20, EJ20, GH21, GKM21, Goo22, HSS22, RY21, SG20, TYZ20]. **Limit** [AO22b, HZ20, KMW20, BATU23, BKRS23, CCKK22, HW21a, LWL21, Lop22, LX23]. **Limiting** [CHP20, HY22]. **limits** [CW20, EKJ20, Kle21, LZ22b]. **Linear** [HS22, BM22, BZ23a, BFZ22, DL22, DS21, FSW21, FGS21b, GZ22a, GvdVZ20, GW22, Han23, HW21b, HS21b, Ing20, KB22, KLN20, KBB<sup>+</sup>20, LWL21, LGRG23, Mou22, MBR21, SF22, ZPZ22, ZMW22]. **Linearized** [GMMM21]. **linearly** [DLS20]. **Lipschitz** [HJWW20]. **Local** [BDP23, CBS20, CFM23, HTYZ20, KNBW22, CM22b, CPH23, Eva20, LBY23, MH20, RS20a]. **localization** [VFLRB23, WYR21]. **Locally** [LZ22a, BRS23, FY23, ZW21]. **locating** [CM22b]. **location** [BGvZ12, BGvZ21, DWYZ23, DP22, MS20, PV20a, SG20]. **log** [FGKS21]. **log-concave** [FGKS21]. **logistic** [BMY20, CS20, HTYZ20]. **long** [BDP23, Hid21, ZLN22]. **long-range** [ZLN22]. **long-run** [BDP23]. **longitudinal** [FNL20, SLY22, WZL22]. **loss** [RGvdL22]. **loss-based** [RGvdL22]. **losses** [TY23]. **low** [AFWZ20, CCF21, CHLZ23, DM23, FWZ21, HS21a, LX23, MV21, SW22, XYZ21, XZZ22]. **low-degree** [SW22]. **low-dimensional** [DM23]. **low-rank** [CCF21, CHLZ23, FWZ21, LX23, MV21, XZZ22]. **lower** [DSH23, Mou22]. **LSS** [LHBS23]. **lunch** [HK22].

**machine** [LL20]. **machines** [HS21a]. **make** [BK20]. **manifolds** [JSLH23]. **many** [Pol21]. **maps** [HR21]. **Marginal** [KM21a, ALPW22]. **marginalized** [MH20]. **Markov** [SPY20, ALPW22, BS23a, DDB20, FZP20, HW23, LQW<sup>+</sup>22, MH20, RERS23, YZZ22]. **Markovian** [AL21]. **massive** [CP21b]. **Matching** [DD23]. **Matérn** [LSW21]. **matrices** [AFWZ20, AR21, BDP23, BDWW22, CHP20, CLC<sup>+</sup>21a, CCF21, DZ20c, DY21, Fan22, HW20, HY22, LW20, LWL21, LR20b, LHBS23, LGRG23, MPW20, MWY23, MV21, Mou22, RW23, XYY20, ZPZ22]. **matrix** [BM22, BDW21, BSS20, CW20, FWZ21, LHY20, PC20, QLY23]. **Max** [FJLX22, LLM20, PR22]. **max-stable** [PR22]. **Max-sum** [FJLX22]. **maxima** [BZ23b, DZ20a, DHS20]. **maximal** [HLM23, RW23]. **maximum**

[BGvZ12, BGvZ21, CS20, EJ20, Goo22, SG20]. **MCMC** [ALPW22, PHL20]. **Mean** [Hop20, BDH21, CW22a, DM22, DL22, GSS22, LBvdL21, LM21b, RGvdL22, ZZ20]. **means** [KKZ21, LL20, MH22, XY20]. **measure** [AC21, HdBCAM21, SP20, WN22]. **measurement** [BG21, JPV22, JZLM23]. **measures** [ALMM22, BB21, Vel22]. **Measuring** [CLP21b]. **median** [LL20]. **median-of-means** [LL20]. **Memorization** [MZ22]. **memory** [Hid21]. **Mendelian** [MWW23, YSK21, ZWH<sup>+</sup>20]. **merging** [VWW22]. **Message** [Fan22, MV21]. **method** [BZ23b, Che21, CGZ22b, GLP20, MW22, RCSN22, WY20]. **methods** [Dob20, MPK20, PTW21, PC20, SvZ20]. **metric** [ABL23, CM22b, HKS21, KB22, LM21a]. **metric-space** [LM21a]. **metrics** [ZZYS20]. **Metropolis** [STG21]. **microclustering** [DCT21]. **microscopy** [KMW21]. **mimic** [RV22]. **Minimax** [BFR23, BGL<sup>+</sup>20, CW21, CP22a, FZP20, HR21, KBW22, LN22, LR20b, LGS21, MGS20, NBW21, NWB22, TY23, BNR23, CS22, Efr21, FNZ22, HW21b, KMW21, Mou22, MJ22]. **Minimax-optimal** [BGL<sup>+</sup>20]. **minimisation** [DDP21]. **minimization** [MN20]. **minimizers** [CLvdG22, Han21]. **minimizing** [SJ22]. **minimum** [CDRV21, CLvdG22, Cox20, LS22b, RGvdL22]. **minimum-** [LS22b]. **Missing** [BS23c, CFMY21, Che22, Efr21]. **misspecification** [DHK<sup>+</sup>20]. **mixed** [EJ20, EB22, FSW21, LZ22a, MP23, PWLL21, RERS23]. **mixing** [WN22]. **mixture** [ADXR20, AY23, AD22, CLP21a, DP21, JLLX21, KM21b, LZZ21, MK21a, Nda22, SG20]. **mixtures** [DGM21, DWYZ23, LX23, MW22, WY20]. **MLE** [CGZ22b, DKH21]. **modal** [GH21]. **Model** [BGL<sup>+</sup>20, Eva20, GIKM22, Ing20, Tan20, BPS20, BDW21, BEPV22, BK20, CLTZ20, CCNT21, DLS20, EKJ20, GM20, HSS22, KBB<sup>+</sup>20, LHY20, Li22, LZZ21, MBR21, Nda22, Pan23, Tia20, WSB<sup>+</sup>23, XJL20, ZD22, ZMW22]. **Model-assisted** [Tan20]. **model-based** [ZD22]. **model-free** [KBB<sup>+</sup>20, Pan23]. **model-X** [WSB<sup>+</sup>23]. **modeling** [Mur21]. **models** [ADXR20, AY23, AD22, BM22, BDSW22, BR23, BZ23a, BBNW20, BBSMW22, BW23, BFP21, BFZ22, BMY20, CP22a, CLP21b, CHLZ23, DHZ21, DCT21, DN21, EJ20, EB22, FSW21, FMM23, FLS20, FGS21b, FY23, GvdVZ20, GKM21, GSUC21, GMPE21, GIKM22, GMW21, GX20, HS21b, JZLM23, JO20, KZ21, Kol22, KM21b, LZ22a, LGRG23, MK21a, MN20, PV20b, SS20, SS23, Vel22, WT23, WN22, WZL22, XM23, ZA23, ZC23]. **moderate** [GSS22]. **modern** [HLS22]. **moment** [BDM22]. **moments** [KKZ21, LS22a, MW22, WY20, ZX22]. **Mondrian** [MGS20]. **Monitoring** [HKW21]. **monotone** [BMNT23, CG21a, DHZ21, WC20]. **monotonicity** [FGS21a]. **Monte** [AL21, DMS20, FT23, HBDD20, KJJS20, KJJS22, MMS23]. **Motif** [BDM22]. **MSE** [DGR23]. **MSE-optimal** [DGR23]. **multi** [Cha20, DZ20b, DW23a, GH21, NR20, PC20]. **multi-armed** [Cha20]. **multi-dimensional** [DZ20b, NR20]. **multi-layer** [PC20]. **multi-modal** [GH21]. **multi-task** [DW23a]. **multiclass** [HTYZ20]. **Multidimensional**

[KMW20, GR22]. **multifactor** [DLY22]. **multilayer** [CLM22, JLLX21]. **multimodal** [PHL20]. **multinomial** [BMY20, LLM20]. **Multiple** [ZVB21, CCZ22, CR20, DHZ21, FLY23, HZ20, HLM23, WGS<sup>+</sup>22, ZLSK22]. **multiplier** [CZ20]. **multiply** [Cha22a]. **multiply-imputed** [Cha22a]. **Multiscale** [CvdP21, CP21a, KMW20]. **multitask** [HK22]. **Multivariate** [FGS21a, GS22, AWS22, BG<sub>v</sub>Z12, BG<sub>v</sub>Z21, BSS20, BNX22, CG21b, DRR20, DP22, EJ20, FGKS21, GLL22, KBW20, KM21b, LM21b, PR22, REZ23, WG23, WZL22, ZVB21].

**Near** [LLM20, Lop22, EB22]. **Near-parametric** [LLM20]. **nearest** [CBS20]. **nearly** [DL22]. **Necessary** [KB22, Lah21]. **need** [XZZ22]. **neighbour** [CBS20]. **Nested** [RERS23]. **Network** [Lei21, AF23, JMM20, JKL21, KL21, LW22, SS23, ZX22]. **networks** [CLM22, GMMM21, HYF23, JPV20, JLLX21, KLR<sup>+</sup>20, Kut20, MZ22, PC20, SH20a, WYR21]. **neural** [GMMM21, JMM20, KL21, Kut20, MZ22, SH20a]. **no** [HK22, XZZ22]. **no-free-lunch** [HK22]. **Noise** [CFMY21, AV23, DGR23, GLL22, dÁLM21]. **Noisy** [Han23, AMBL23, DM23, SM20, XYZ21]. **non** [CP21a, JPV21, ZGV22]. **non-** [ZGV22]. **non-Euclidean** [CP21a, JPV21]. **Nonasymptotic** [JSLH23, RW20a, HRMS21]. **Nonclassical** [Zhi20]. **nonconvex** [CPT23, CFMY21, JZLM23, SWJ21]. **Nonexchangeable** [DCT21]. **nonignorable** [MK21b]. **noninteractive** [BRS23]. **Nonlinear** [AF23, SO23, DM23, JZLM23, LW20, MNP21, SW07, SWZ22, ZSW22]. **nonlinear-type** [SWZ22]. **nonmonotone** [Che22]. **Nonparametric** [CPH23, CGC20, DRR20, Efr22, GR22, JPV22, Kut20, NR20, RSH20, SH20a, ADXR20, AY23, AD22, BS23c, BCCG21, CW21, CW22b, CLP21b, CG21a, Cha20, GS22, GLP20, HRMS21, JSLH23, KBW20, KH23, KM21b, LN22, LCI21, MPW23, SG20, SGWH20, SV<sub>v</sub>Z23, WC20, XS21, ZS22, vdVW21]. **Nonregular** [FNZ22]. **nonresponse** [MK21b]. **nonreversible** [AWS22]. **nonsmooth** [SWJ21]. **nonsparse** [BFZ22, SF22]. **nonspiked** [CHP20]. **nonstandard** [DR21a, LY20]. **nonstationary** [BR23, DZ20c, DZ23, TCPS23]. **nonunique** [LBvdL21]. **norm** [AWS22, BDH21, CLvdG22]. **norma** [LS22b]. **normal** [BSS20, Che21, FY23, KZ21]. **normality** [QLY23]. **normalization** [WS20]. **normalized** [GSS22]. **note** [BG<sub>v</sub>Z21, FZ21, LBvdL21, ZSW22]. **null** [RV22]. **number** [KM21b, MK21a, TYZ20, WL22, ZWL20]. **numbers** [RKP23]. **numerical** [HL20].

**observations** [CSSV22, Ing20, SLY22]. **observed** [HW23, KL20, WN22]. **Off** [HW23, BKRS23, CS22, DSH23, SS22]. **Off-policy** [HW23]. **offline** [WQW23]. **one** [DM22, DMR22]. **one-bit** [DMR22]. **Online** [GH21, KR20, ZS22]. **Only** [GHS21]. **operator** [CP22b, DM23]. **operators** [BD20]. **Optimal** [ABL23, BM22, BG<sub>v</sub>Z12, BG<sub>v</sub>Z21, BKS21, BS23c, BW23, CWZ21, CW22b, CFNP21, CCZ22, CNY21, Cha22b, CGZ22a, DLS20,

DWYZ23, HJWW20, JKL21, LX23, MBR21, PCV23, RCS23, SGWH20, SVvZ23, TSY20, VFLRB23, WYR21, WY20, XJL20, ADXR20, BB21, BNR23, BMY20, BGL<sup>+</sup>20, CG21b, DGR23, FZP20, GS22, Han21, HWZ22, HR21, KB22, KL20, Leu22, LO23, LBvdL21, MPW20, MK21b, MGS20, Nda22, NBW21, SSL21, SM20, WT23, XYZ21, ZLN22]. **Optimality** [CGZ22b, LZZ21, CQZ23, DR21b, KBW22, LLHL21, LM21b, LZ22b, MJ22, ZCW22]. **Optimally** [MPW23]. **Optimization** [AO22a, AMBL23, CZ21, CPT23, CFMY21, DR21b, DN21, HMR23, JZLM23]. **oracle** [BG20, BS23b, RV22]. **Order** [SM23, BZ21, BK20, FZ16, FZ21, HCCI22, OvdG21]. **Order-of-addition** [SM23]. **ordering** [AL21, SM23]. **Orthogonal** [FS23, CT22, HLS22, PWLL21, SM23]. **Osband** [FZ21, FZ16]. **other** [BZ21, DHZ21, RKP23]. **outcome** [HLM23, LBvdL21]. **outcomes** [RGvdL22]. **outlier** [CDRV21]. **outliers** [BCL<sup>+</sup>23, CFMY21]. **overlapping** [BBNW20, ZVB21].

**p** [VWW22]. **p-values** [VWW22]. **Pairwise** [BCCP23, CGZ22a, MW22, PMM<sup>+</sup>20]. **panel** [BCPW23, FJLX22]. **parabolic** [Cho20]. **parallel** [Pol21, WM21]. **parameter** [CWZ21, LSW21, MM21]. **parameters** [CLTZ20, GM20, Li22]. **Parametric** [ZGV22, LLM20]. **Partial** [CGZ22b, GX20, KS20, PMM<sup>+</sup>20, ZS20]. **partially** [HW23, KL20, ZMW22]. **particle** [CSSV22, KJJS20, KJJS22, LSV20]. **partition** [DCT21]. **partitioning** [CFF20]. **partitioning-based** [CFF20]. **passing** [MV21, Fan22]. **paths** [CGC20]. **Pattern** [Che22]. **PCA** [AFW22, CFMY21, Dob20, RW20a, SS22, ZCW22]. **PDEs** [Cho20]. **Penalized** [TYZ20, Hua20, HS21b, OQC22]. **penalties** [CM22a]. **performance** [DN21]. **Permutation** [Dob20, PCV23, BKS21, KNBW22, KBW22]. **permutations** [MPW20, MW22, PS22]. **persistent** [CGK22, RKP23]. **perspective** [AD22, BKRS23, KMW21]. **perspectives** [HMR23]. **perturbed** [CCF21]. **Peskun** [AL21]. **Peskun-Tierney** [AL21]. **phase** [BV20, CS20, GZ22a, Hua20, MZ22]. **phenomenon** [BS23b, BDM22, DLY22]. **piecewise** [BZ23b, CG21b, GHZ20]. **planted** [LZ22b]. **plot** [ZD22]. **Poincaré** [ALPW22]. **point** [BCCP23, CNY21, DM20, FLS20, HKW21, LGS21, VFLRB23, WYR21]. **points** [EB22, WZVS22, ZWL20]. **Poisson** [JZLM23, RSH20]. **policy** [HW23, LQW<sup>+</sup>22]. **polygon** [JKL21]. **polynomial** [Hop20, JSLH23]. **polynomials** [CG21b, SW22]. **population** [LHY20]. **populations** [HY22]. **position** [SS23]. **positive** [FLS20]. **positives** [BNR20]. **positivity** [LUZ21, REZ23]. **possible** [DK22, GLL22, RV22]. **possibly** [LBvdL21, ZLSK22]. **Post** [BNR20, ZJ23, BPS20, KLYL20, KBB<sup>+</sup>20, PTW21]. **post-model-selection** [BPS20]. **Post-selection** [ZJ23, KBB<sup>+</sup>20, PTW21]. **Posterior**

[RvdP20, SHSS<sup>+</sup>21, KK20, Mur21, SM20, ZG20]. **posteriors** [AR20]. **power** [EH23, WSB<sup>+</sup>23]. **Powerful** [SJ22]. **practice** [LL20]. **Precise** [JS22, LS22b]. **precision** [BDP23, DZ20c, LR20b]. **Prediction** [OvdG21, Tia20, BCRT23, DLS20, KB22]. **predictions** [BK20]. **Predictive** [BCRT21, HHPS20, MJ22, SL23]. **predictors** [HLM23, JPV21]. **prefactors** [JSLH23]. **presence** [DK21, SAH21]. **prices** [OW21]. **pricing** [BCPW23]. **Principal** [FSW21, BDWW22, DY21, KLN20, PRV20]. **principle** [FWZ21, FZ16, FZ21]. **prior** [RSH20]. **priors** [BSS20, MNP21, RS20b]. **privacy** [CWZ21, LBY23, RS20a]. **private** [AMBL23, AV23, BRS23]. **probability** [BB21, KR20]. **problem** [Cha20, NIS<sup>+</sup>21]. **problems** [AO22a, Han23, MNP21, PCV23]. **procedure** [MK21a]. **procedures** [BGvZ12, BGvZ21, DR21a, GHS21, WGS<sup>+</sup>22]. **process** [BATU23, DDG21, HPTZ22, JT21, Li22, MNP21, Mur21]. **processes** [BCCP23, CL22, DRR20, FZP20, Hid21, HW23, HCCI22, LQW<sup>+</sup>22, MPK20, MP23, YZZ22, ZW21, ZLN22]. **profession** [FS21]. **profile** [ZWH<sup>+</sup>20]. **Projected** [WQW23]. **projection** [KBW20]. **projections** [KPST23]. **Projective** [SS23]. **promotion** [BEPV22]. **properties** [BCST20, CFF20, CVFL22, HS21b, RERS23, RS20b]. **proportion** [KR20]. **proportions** [GHS21]. **Propriety** [Mur21]. **protocol** [CW22a]. **proxy** [KRSW21]. **pseudo** [ALPW22, GKM21]. **pseudo-likelihood** [GKM21]. **pseudo-marginal** [ALPW22]. **pure** [LN22].

**quadratic** [BRS23, CZ21]. **quantification** [BG20, CR21, MNP21]. **quantifying** [CS22]. **quantile** [BCPW23, HdBCAM21, HPTZ22]. **quantiles** [GS22, KP23]. **quantization** [DMR22]. **quantum** [FY23, LN22].

**Random** [BS23c, LW22, AFWZ20, BD20, BM22, CPT23, CVFL22, DZ20a, DCT21, DD23, GSS22, GHO22, GGCvL20, KB22, LSW21, SS20, SGWH20, STG21, TCPS23]. **randomization** [Dob22, MWW23, YSK21, ZWH<sup>+</sup>20]. **randomized** [Leu22, LH23]. **range** [SWFD21, ZLN22]. **Rank** [LEV21, AFWZ20, CP22b, CCF21, CHLZ23, DHS20, FWZ21, HYF23, LWL21, LX23, MV21, RW23, SHDH22, XYZ21, XZZ22]. **Rank-based** [LEV21]. **ranking** [CGZ22a, CGZ22b]. **ranks** [GS22, HdBCAM21]. **rare** [DK22, PS20]. **rare/weak** [PS20]. **Rate** [Leu22, WT23, CW21, CW22b, CCZ22, DHK<sup>+</sup>20, FL22, Han21, KL21, RV22, SM20, TY23]. **Rate-optimal** [Leu22, WT23, SM20]. **Rates** [HS21b, BB21, BKS21, BFR23, CWZ21, GS22, HS21a, HJWW20, Hop20, LGS21, LLM20, MGS20, RS20a, TSY20, XJL20, ZG20]. **ratio** [BM22, BMNT23, HSS22]. **reach** [ABL23]. **recollections** [Che21]. **Reconciling** [RY21, ZD22]. **reconstructability** [SJ22]. **reconstruction** [KL20, RW20a]. **recovery** [BGL<sup>+</sup>20, CGZ22b, DD23, FWZ21, GZ22b, Nda22, RSH20]. **reduction** [DQW20, KLYL20, KZ21, LL22, LS22a]. **reference** [BNR20, Mur21]. **Refined** [GSS22]. **reflections** [Che21]. **regime** [LLSS21]. **regimes** [OQC22].

**regions** [EB22, FLS20, LY20]. **regression** [BATU23, BGvZ12, BG20, BGvZ21, BCPW23, BV20, BM23, BNX22, BJ23, CS20, CM22a, CG21a, CM22b, CS22, DSUC23, DZ20b, DHZ21, DS21, FGS21a, GZ22a, GW22, GLP20, GSUC21, HZ20, HTYZ20, HS23, HHPS20, HPTZ22, Ing20, JP20, JPV21, JPV22, JT21, JSLH23, KR20, KL21, KBB<sup>+</sup>20, Kut20, LLSS21, LR20a, LLHL21, LM21a, MPW23, OQC22, PS22, PLD21, RvdP20, SH20a, SGWH20, SF22, WG23, ZP22, ZS22, ZGV22, dÁLM21]. **regression-based** [OQC22]. **regressions** [GHO22, dRdCMP21]. **regret** [BNR23]. **regrets** [CP22a]. **regular** [XM23]. **regularization** [BNR23, DGMMR21, dÁLM21]. **regularized** [BZ23a, CLvdG22, HS23, JLLX21, LM21a, OvdG21, Tan20, WSB<sup>+</sup>23]. **reinforcement** [WQW23]. **Relaxing** [BNR23, FGRS22, HJ20]. **relevant** [BDH21]. **ReLU** [Kut20, SH20a]. **replicating** [WGS<sup>+</sup>22]. **representation** [Lei21]. **Rerandomization** [WL22]. **Rerandomized** [MWW23]. **resampling** [CSSV22, ZLN22]. **research** [BFdGG21]. **residual** [HYF23]. **residuals** [Vel22]. **resilience** [ZJS22]. **resolution** [KMW21]. **response** [BNX22, FGS21b, PLD21]. **responses** [BJ23, FNZ22, JP20, JPV21]. **restricted** [GX20]. **restrictions** [KH23]. **results** [DDG21, SS20]. **reversible** [AL21, BS23a, GR22]. **revisited** [NIS<sup>+</sup>21, ZP22]. **reward** [LQW<sup>+</sup>22]. **Rho** [BB20]. **Rho-Bayes** [BB20]. **Ridge** [ZP22]. **Ridgeless** [LR20a, HMRT22]. **Riemannian** [SLY22]. **risk** [CFNP21, CLvdG22, CS22, DR21a, GLCS20, Han21, Han23, HHPS20, Hua20, MN20, Mou22]. **risk-fairness** [CS22]. **RKHS** [MPW23, ZZYS20]. **RKHS-based** [MPW23, ZZYS20]. **Robust** [BB20, BCS20, BFL21, CZ20, DL22, FLY23, GLN20, KBW20, KKZ21, LL20, LM21b, MZ20, OW21, SM20, CFMY21, CCNT21, DM22, DW23a, DN21, FWZ21, Hua20, WT23, YZZ22, ZWH<sup>+</sup>20, ZJS22]. **robustness** [CLvdG22, LBY23]. **root** [BE22, BNR23, Lei21]. **root-entropic** [BNR23]. **rotationally** [Fan22]. **rule** [LBvdL21, Pol21]. **Run** [Pol21, BDP23].

**saddlepoint** [Goo22]. **Safe** [DP21]. **Sample** [YZZ22, Bha20, CHP20, CFF20, GW22, GGCvL20, HY22, KRSW21, LHY20, LHBS23, MMS23, Mou22, QLY23, XYY20, XY20, YSK21, ZZPZ22, ZWH<sup>+</sup>20, Zhi22, ZWL20]. **sample-splitting** [ZWL20]. **sampling** [BJ22, BDM22, DP21, HTYZ20, HW21a, LSV20]. **Scalable** [HPTZ22, BV20]. **scale** [CCZ22, GHO22, HTYZ20, KW22, MS20]. **scales** [HT23]. **scanning** [KMW20]. **scenario** [AL21]. **schemes** [CSSV22]. **score** [ZWH<sup>+</sup>20]. **ScreeNOT** [DGR23]. **search** [Tia20]. **Second** [BZ21, SMZ22]. **Second-order** [BZ21]. **sectional** [FJLX22]. **Segmentation** [FLS20]. **selection** [BPS20, BMNT23, CDRV21, Eva20, GKM21, GLP20, GIKM22, HMR23, HCCI22, Ing20, JT21, KBB<sup>+</sup>20, Lah21, PTW21, RCS23, WWM20, ZWL20, ZJ23]. **self** [GSS22, WS20]. **self-normalization** [WS20]. **self-normalized** [GSS22]. **selfnormalization** [WZVS22]. **semi** [CBS20]. **semi-supervised** [CBS20]. **Semiparametric** [MK21b, RvdV20, WZL22, BEV20, ZGV22, dRdCMP21]. **sensitive** [PS20].

**sensitivity** [DK22]. **separability** [BD20]. **separable** [DY21]. **sequence** [BS23a, HSS22, HKW21]. **sequences** [HRMS21, WN22]. **sequential** [FZP20, FT23, HBDD20, HW23, KJJS20, KJJS22, MMS23]. **series** [AvD20, BR23, BZ23b, CFF20, CNY21, Cha22b, DZ20c, DZ23, SW07, Vel22, WS20, ZVB21, ZSW22]. **Set** [Han21, BE22]. **sets** [RCSN22, RS20b]. **settings** [KR20]. **shape** [BS23a, KH23, RCSN22, XS21]. **shape-constrained** [BS23a]. **Sharp** [CPT23, CQZ23, Efr21, KBG20, Nda22]. **shift** [KM21a, MPW23]. **short** [SWFD21]. **short-range** [SWFD21]. **shrinkage** [FWZ21, FGRS22, LW20]. **sieve** [RS20b, ZS22]. **signal** [BM22, CC23]. **signals** [CQZ23, GHZ20, GLL22, SO23, WGS<sup>+</sup>22]. **signed** [JKL21]. **signed-polygon** [JKL21]. **significance** [FNL20]. **signs** [HdBCAM21]. **simple** [AC21]. **simplices** [NIS<sup>+</sup>21]. **Simultaneous** [KR20]. **Single** [BM23]. **Singular** [BDW21, DGR23, EB22, MWY23]. **Singularity** [DHK<sup>+</sup>20, KM21a]. **SIR** [TSY20]. **size** [BGvZ12, BGvZ21, DDB20]. **sizes** [ZVB21]. **sketching** [GW22]. **slab** [CR20]. **sliced** [LLHL21]. **slicing** [DQW20]. **sliding** [BZ23b]. **SLOPE** [BKRS23]. **smooth** [HR21, KZ21, Kol22, NWB22, TCPS23]. **smoothing** [DC23]. **Sobolev** [ZS22]. **solution** [Cha20]. **Some** [BCST20, Che21, BM22]. **Sort** [MK21a]. **space** [CT22, CM22b, CHHW21, DKA20, EFdH<sup>+</sup>22, GIKM22, LM21a]. **space-filling** [CT22]. **space-time** [EFdH<sup>+</sup>22]. **spaces** [DZ20b, HKS21, KB22]. **Sparse** [BV20, DGMMR21, GZ22a, TSY20, ALS23, BBSMW22, BCCG21, CW20, CZ21, CQZ23, CCNT21, FMM23, GLN20, GMW21, LGS21, MM21, MJ22, SLY22, SS23, WYR21, ZS20]. **sparsity** [BMNT23]. **Spatial** [EFdH<sup>+</sup>22, KP23, LEV21, Leu22]. **specific** [RGvdL22]. **Spectral** [CL22, PC20, AFW22, AR21, BM22, CGZ22b, LWL21, LZZ21, SW07, XYY20, ZW21, ZZPZ22, ZSW22]. **spectrum** [GKV<sup>+</sup>22]. **spherical** [CM21, PV20a]. **spherically** [MS20]. **spike** [CR20]. **Spiked** [DY21, BM22, BDWW22, CHP20, DLS20, EKJ20, JO20, LHY20, ZZPZ22]. **spikes** [LHBS23]. **spline** [HS21b]. **split** [ZD22]. **split-plot** [ZD22]. **splitting** [ZWL20]. **square** [ZA23]. **squared** [GZ22a]. **squares** [HMRT22, KP22, Mou22, OvdG21, ZS20]. **stability** [ZJ23]. **stabilizing** [RKP23]. **stable** [MP23, PR22, SL23]. **stage** [BGvZ12, BGvZ21, LFR21]. **standard** [ERV20]. **state** [WQW23]. **state-action** [WQW23]. **states** [LN22]. **stationarity** [AvD20]. **stationary** [BCCP23, BZ23b, CGK22, MPK20, ZW21]. **Statist** [BGvZ21]. **statistic** [BKS21]. **Statistical** [BDWW22, CW20, CLTZ20, Dre23, GMW21, LZ22b, MNP21, ZWH<sup>+</sup>20, AO22a, CP21b, FS23, FY23, HWZ22, HMR23, JS22, KLYL20, KMW20, KMW21, NIS<sup>+</sup>21, NR20, SWJ21, SWZ22, SS22, LBvdL21]. **Statistically** [XYZ21]. **Statistics** [PS22, BM22, HXWP21, JKL21, LWL21, LLM20, QLY23, RKP23, WSB<sup>+</sup>23, ZZPZ22, ZJS22]. **status** [Efr21]. **Stein** [BZ21, Che21, EG21, MH22, Str21, vdVW21]. **step** [BEV20, DDB20]. **Stigum** [ALS23]. **Stochastic** [CP22a, BB21, CLTZ20, Cho20, CGC20, DDB20, DR21b, XJL20, ZS22].



streams [Pol21]. **strength** [PWLL21]. **Strong** [GKM21]. **structural** [BFPM21]. **structure** [Dre23, GZ22b, GLP20, KW22, WN22, YLFS22]. **structured** [BBNW20, BK20, GvdVZ20, Han21, KR20, LGRG23]. **structures** [BFZ22, DM23, LZ22b]. **studies** [NLS21]. **study** [CT22, SM23, WC20]. **sub** [DL22, Hop20]. **sub-Gaussian** [DL22, Hop20]. **subgraph** [BDM22]. **subgroup** [RCS23]. **submanifolds** [TY23]. **SubOptimality** [CGZ22b]. **subordinated** [ZLN22]. **subsampling** [HYF23]. **subsets** [EJ20]. **Subspace** [CLC<sup>+</sup>21a, BDW21]. **successive** [KPST23]. **sufficient** [BJ22, DQW20, KB22, Lah21, LL22]. **sum** [FJLX22]. **summary** [YSK21, ZWH<sup>+</sup>20]. **summary-data** [YSK21, ZWH<sup>+</sup>20]. **sums** [DZ20a, GSS22]. **Sup** [AWS22, BDH21]. **Sup-norm** [AWS22, BDH21]. **super** [BS23b]. **super-oracle** [BS23b]. **superhedging** [OW21]. **SuperMix** [DGMMR21]. **superresolution** [KMW21]. **supervised** [CBS20]. **support** [HS21a, RSH20]. **sure** [Cox20, BZ21, FGRS22]. **surfaces** [BD20]. **Surprises** [HMRT22]. **surrogate** [SWJ21]. **Survival** [CLP21a, CvdP21, HLM23, PV20b, WZL22]. **symmetric** [MS20]. **symmetry** [GIKM22, XS21]. **synchrosqueezing** [SWZ22]. **systems** [KJJS20, KJJS22].

**Table** [Ano23g, Ano23h, Ano23i, Ano23j, Ano23k, Ano23l]. **tables** [DK22]. **tackling** [MPW23]. **tail** [ES21, Mou22]. **tailed** [BCCG21, DSUC23, FWZ21, GSUC21, GMPE21, HY22, KP22]. **Tanner** [BKRS23]. **TAP** [CFM23]. **targeted** [RGvdL22]. **targeting** [PHL20]. **task** [DW23a]. **teacher** [vdGK21]. **tempered** [AR20]. **Tensor** [LZ22b, HWZ22, JLLX21, XYZ21]. **tensors** [XZZ22]. **Test** [FNL20, HW20, ALMM22, BD20, SWFD21, XY20, ZA23]. **Testability** [BFZ22]. **Testing** [AvD20, BJ22, BCL<sup>+</sup>23, CP22b, GM22, JO20, KH23, PRV20, YLFS22, BKS21, BS23c, BDH21, CCZ22, CR20, CMW23, CQZ23, CPH23, DHS20, FLY23, GW22, GS22, GGCvL20, GHS21, HXWP21, JZLM23, JKL21, KRSW21, KMW21, NBW21, SP20, SVvZ23, WS20, vdVW21]. **tests** [AV23, BM22, BKS21, Bha20, Cha22a, Dob22, DW23b, FZP20, FJLX22, HSS22, KBW20, KNBW22, KBW22, PLD21, PS20, SHDH22]. **their** [AR20, AMR20, DR21a, ZC23]. **theorem** [CCKK22, EG21, HK22, LWL21, Lop22, dRdCMP21]. **theorems** [AO22b, GSS22, HW21a]. **Theoretical** [ZZ20, BCST20, YZZ22]. **Theory** [LL20, AFW22, HZ20, KS20, KMW20, LS22b, SW07, ZSW22]. **thesis** [vdGK21]. **threshold** [ALS23, DD23]. **thresholding** [DGR23, GLN20, SF22, ZP22]. **thresholds** [Bha20, FNZ22]. **thumb** [Pol21]. **tie** [LO23]. **tie-breaker** [LO23]. **Tierney** [AL21]. **Time** [HRMS21, AvD20, BR23, BEPV22, BZ23b, CNY21, Cha22b, CM22b, CHHW21, DL22, DZ20c, DZ23, EFdH<sup>+</sup>22, Hop20, LCI21, RW23, RGvdL22, SO23, SW07, SWZ22, Vel22, WS20, ZSW22, ZVB21]. **time-dependent** [LCI21]. **time-frequency** [SWZ22]. **Time-uniform** [HRMS21]. **time-varying** [RW23]. **top** [CGZ22b]. **top-** [CGZ22b]. **topic** [BBSMW22].

**topics** [KPST23]. **Total** [LUZ21, LM21a, REZ23, FGS21a, GLCS20, KYZ21, OvdG21, dÁLM21]. **trace** [LHY20]. **trade** [BKRS23, CS22, DSH23, SS22]. **trade-off** [BKRS23, CS22, DSH23, SS22]. **training** [JS22, MZ22]. **trajectories** [CM22b]. **Transfer** [CW21, RCS21]. **transform** [SWZ22]. **transform-toward** [SWZ22]. **transformations** [AO22b]. **transformed** [DLS20]. **transition** [CS20, GZ22a, Hua20, MZ22]. **transitions** [BV20]. **transport** [GS22, HR21]. **transportation** [BB21, HdBCAM21]. **treatment** [JPV20, LW22, LBvdL21, OQC22, SAH21, SM23, SSL21, Tan20, YNB<sup>+</sup>22]. **tree** [BK20]. **tree-structured** [BK20]. **trees** [CG21b, MGS20, RvdP20]. **trek** [BDSW22]. **trend** [CC23, EFdH<sup>+</sup>22, GLCS20]. **trimmed** [LM21b]. **tuning** [FLY23, MM21]. **Two** [BEV20, BRS23, GW22, GGCvL20, WM21, BGvZ12, BGvZ21, Bha20, DK22, GMMM21, JMM20, KRSW21, KKZ21, LLSS21, LFR21, Nda22, XY20, YSK21, ZWH<sup>+</sup>20]. **two-layer** [JMM20]. **two-layers** [GMMM21]. **Two-level** [WM21]. **two-regime** [LLSS21]. **Two-sample** [GW22, GGCvL20, Bha20, KRSW21, XY20, YSK21, ZWH<sup>+</sup>20]. **two-stage** [BGvZ12, BGvZ21, LFR21]. **Two-step** [BEV20]. **Tyler** [GLN20]. **type** [GSS22, SWZ22, Zhi22]. **types** [Pol21].

**unbalanced** [CLC<sup>+</sup>21a]. **Uncertainty** [CR21, BG20, HTYZ20, MNP21]. **understandings** [YZZ22]. **unified** [WC20]. **Uniform** [AY23, CM22b, HW21a, MM21, DN21, HRMS21]. **Uniformly** [BPS20]. **uniqueness** [Cox20, DKH21]. **univariate** [FGS21b, GLCS20]. **Universal** [BJ23, HYF23, HKS21]. **Universality** [HS23]. **universally** [SHDH22]. **unknown** [CW22a, GLL22, MPW20, MS20, PS22, RV22, SAH21, TY23]. **unlabeled** [KLR<sup>+</sup>20]. **Unmixing** [NIS<sup>+</sup>21]. **unobserved** [LH23, YNB<sup>+</sup>22]. **upper** [RW20a]. **using** [BCCP23, BNR20, EJ20, GS22, KS20, Kut20, Lei21, MP23, RW23, SH20a, Tan20, Vel22, WGS<sup>+</sup>22, ZWH<sup>+</sup>20].

**Valid** [KBB<sup>+</sup>20, BPS20]. **validated** [CLC21b]. **validation** [CC23]. **validity** [Kle21, KK20, MPK20]. **value** [DGR23, Dre23, EH23, HHPS20, SSL21]. **value-at-risk** [HHPS20]. **valued** [CM22b, LM21a]. **values** [BCL<sup>+</sup>23, MWY23, VW21, VWW22]. **Variable** [BMNT23, JT21, BDSW22, BGL<sup>+</sup>20, GLP20, HMR23, Lah21, WWM20]. **variables** [BNX22, BFP21, GSS22, LUZ21, ZLSK22]. **variance** [BDP23, CW22a, Cha22b, DSH23, LLM20, MWW23, SWFD21, SGWH20, YSK21]. **variation** [CG21b, FGS21a, GLCS20, LM21a, OvdG21, dÁLM21]. **Variational** [RW20b, AR20, BKRS23, ZG20, ZZ20]. **VARs** [BG22]. **varying** [BDH21, RW23]. **vector** [BDW21, CCNT21, DL22, GKM21, HS21a, NR20, SHDH22, WT23]. **vectors** [DZ20a, MS20]. **versus** [BRS23, PMM<sup>+</sup>20, SS22]. **via** [ALPW22, AMBL23, BKS21, BDM22, BFR23, BNR23, CLP21a, CZ20, DN21, FGS21a, GW22, HYF23, JMM20, JLLX21, KBW20, MK21a, MV21, SJ22, WS20, WZVS22, WY20, XS21, ZWL20, ZJ23]. **Volatility**

[JLL21, CGK22, SMZ22].

**walk** [STG21]. **warping** [CM22b]. **Wasserstein** [BBSMW22, CLP21b, NWB22, PLD21]. **ways** [VWW22]. **weak** [ALPW22, BE22, DK22, LS22a, LLM20, PRV20, PS20]. **weakly** [CSSV22, dRdCMP21]. **weighted** [MWW23, XJL20, YSK21]. **weights** [WQW23]. **Which** [WWM20]. **white** [dÁLM21]. **Whittle** [BDP23, RY21]. **Wigner** [EKJ20]. **Wilks** [dRdCMP21]. **Willem** [BFdGG21, FS21, vdGK21]. **winner** [MWW23]. **winsorized** [GSS22]. **without** [Cox20, Efr21]. **Wordlength** [TX21]. **working** [HS21a]. **Worst** [PMM<sup>+</sup>20]. **Worst-case** [PMM<sup>+</sup>20]. **Wynn** [FGS21b].

**X** [WSB<sup>+</sup>23].

**Zwet** [BFdGG21, FS21, vdGK21].

## References

**Aamari:2023:ORE**

[ABL23] Eddie Aamari, Clément Berenfeld, and Clément Levrard. Optimal reach estimation and metric learning. *Annals of Statistics*, 51(3):1086–1108, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Optimal-reach-estimation-and-metric-learning/10.1214/23-AOS2281.full>.

**Azadkia:2021:SMC**

[AC21] Mona Azadkia and Sourav Chatterjee. A simple measure of conditional dependence. *Annals of Statistics*, 49(6):3070–3102, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/A-simple-measure-of-conditional-dependence/10.1214/21-AOS2073.full>.

**Argiento:2022:IFB**

[AD22] Raffaele Argiento and Maria De Iorio. Is infinity that far? A Bayesian nonparametric perspective of finite mixture models. *Annals of Statistics*, 50(5):2641–2663, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Is-infinity-that-far->

A-Bayesian-nonparametric-perspective-of-finite/10.1214/22-AOS2201.full.

**Aragam:2020:INM**

- [ADXR20] Bryon Aragam, Chen Dan, Eric P. Xing, and Pradeep Ravikumar. Identifiability of nonparametric mixture models and Bayes optimal clustering. *Annals of Statistics*, 48(4):2277–2302, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Identifiability-of-nonparametric-mixture-models-and-Bayes-optimal-clustering/10.1214/19-AOS1887.full>.

**Armillotta:2023:NNA**

- [AF23] Mirko Armillotta and Konstantinos Fokianos. Nonlinear network autoregression. *Annals of Statistics*, 51(6):2526–2552, December 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-6/Nonlinear-network-autoregression/10.1214/23-AOS2345.full>.

**Abbe:2022:TPS**

- [AFW22] Emmanuel Abbe, Jianqing Fan, and Kaizheng Wang. An  $\ell_p$  theory of PCA and spectral clustering. *Annals of Statistics*, 50(4):2359–2385, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/An-%e2%84%93p-theory-of-PCA-and-spectral-clustering/10.1214/22-AOS2196.full>.

**Abbe:2020:EEA**

- [AFWZ20] Emmanuel Abbe, Jianqing Fan, Kaizheng Wang, and Yiqiao Zhong. Entrywise eigenvector analysis of random matrices with low expected rank. *Annals of Statistics*, 48(3):1452–1474, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Entrywise-eigenvector-analysis-of-random-matrices-with-low-expected-rank/10.1214/19-AOS1854.full>.

**Andrieu:2021:PTO**

- [AL21] Christophe Andrieu and Samuel Livingstone. Peskun-tierney ordering for Markovian Monte Carlo: Beyond the reversible

scenario. *Annals of Statistics*, 49(4):1958–1981, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/PeskunTierney-ordering-for-Markovian-Monte-Carlo--Beyond-the-reversible/>10.1214/20-AOS2008.full.

**Albert:2022:ATI**

[ALMM22] Mélisande Albert, Béatrice Laurent, Amandine Marrel, and Anouar Meynaoui. Adaptive test of independence based on HSIC measures. *Annals of Statistics*, 50(2):858–879, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Adaptive-test-of-independence-based-on-HSIC-measures/10.1214/21-AOS2129>.full.

**Andrieu:2022:CMC**

[ALPW22] Christophe Andrieu, Anthony Lee, Sam Power, and Andi Q. Wang. Comparison of Markov chains via weak Poincaré inequalities with application to pseudo-marginal MCMC. *Annals of Statistics*, 50(6):3592–3618, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/Comparison-of-Markov-chains-via-weak-Poincar%c3%a9-inequalities-with-application/>10.1214/22-AOS2241.full.

**Abbe:2023:LSG**

[ALS23] Emmanuel Abbe, Shuangping Li, and Allan Sly. Learning sparse graphons and the generalized Kesten–Stigum threshold. *Annals of Statistics*, 51(2):599–623, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/Learning-sparse-graphons-and-the-generalized-KestenStigum-threshold/10.1214/23-AOS2262>.full.

**Avella-Medina:2023:DPI**

[AMBL23] Marco Avella-Medina, Casey Bradshaw, and Po-Ling Loh. Differentially private inference via noisy optimization. *Annals of Statistics*, 51(5):2067–2092, October 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals->

of-statistics/volume-51/issue-5/Differentially-private-  
inference-via-noisy-optimization/10.1214/23-AOS2321.  
full.

**Anderes:2020:ICF**

- [AMR20] Ethan Anderes, Jesper Møller, and Jakob G. Rasmussen. Isotropic covariance functions on graphs and their edges. *Annals of Statistics*, 48(4):2478–2503, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Isotropic-covariance-functions-on-graphs-and-their-edges/10.1214/19-AOS1896>. full.

**Anonymous:2023:EBa**

- [Ano23a] Anonymous. Editorial board. *Annals of Statistics*, 51(1):??, February 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-1/Editorial-Board/aos511p1>. full.

**Anonymous:2023:EBb**

- [Ano23b] Anonymous. Editorial board. *Annals of Statistics*, 51(2):??, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/Editorial-Board/aos512p1>. full.

**Anonymous:2023:EBc**

- [Ano23c] Anonymous. Editorial board. *Annals of Statistics*, 51(3):??, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Editorial-Board/aos513p1>. full.

**Anonymous:2023:EBd**

- [Ano23d] Anonymous. Editorial board. *Annals of Statistics*, 51(4):??, August 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/Editorial-Board/aos514p1>. full.

**Anonymous:2023:EBe**

- [Ano23e] Anonymous. Editorial board. *Annals of Statistics*, 51(5): ??, October 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-5/Editorial-Board/aos515p1.full>.

**Anonymous:2023:EBf**

- [Ano23f] Anonymous. Editorial board. *Annals of Statistics*, 51(6): ??, December 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-6/Editorial-Board/aos516p1.full>.

**Anonymous:2023:TCa**

- [Ano23g] Anonymous. Table of contents. *Annals of Statistics*, 51(1):??, February 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-1/Table-of-Contents/aos511c1.full>.

**Anonymous:2023:TCb**

- [Ano23h] Anonymous. Table of contents. *Annals of Statistics*, 51(2):??, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/Table-of-Contents/aos512c1.full>.

**Anonymous:2023:TCc**

- [Ano23i] Anonymous. Table of contents. *Annals of Statistics*, 51(3):??, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Table-of-Contents/aos513c1.full>.

**Anonymous:2023:TCd**

- [Ano23j] Anonymous. Table of contents. *Annals of Statistics*, 51(4):??, August 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/Table-of-Contents/aos514c1.full>.

**Anonymous:2023:TCe**

- [Ano23k] Anonymous. Table of contents. *Annals of Statistics*, 51(5):??, October 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-5/Table-of-Contents/aos515c1.full>.

**Anonymous:2023:TCf**

- [Ano23l] Anonymous. Table of contents. *Annals of Statistics*, 51(6):??, December 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-6/Table-of-Contents/aos516c1.full>.

**Aswani:2022:OHF**

- [AO22a] Anil Aswani and Matt Olfat. Optimization hierarchy for fair statistical decision problems. *Annals of Statistics*, 50(6):3144–3173, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/Optimization-hierarchy-for-fair-statistical-decision-problems/10.1214/22-AOS2217.full>.

**Austern:2022:LTD**

- [AO22b] Morgane Austern and Peter Orbanz. Limit theorems for distributions invariant under groups of transformations. *Annals of Statistics*, 50(4):1960–1991, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/Limit-theorems-for-distributions-invariant-under-groups-of-transformations/10.1214/21-AOS2165.full>.

**Alquier:2020:CTP**

- [AR20] Pierre Alquier and James Ridgway. Concentration of tempered posteriors and of their variational approximations. *Annals of Statistics*, 48(3):1475–1497, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Concentration-of-tempered-posteriors-and-of-their-variational-approximations/10.1214/19-AOS1855.full>.



**Amini:2021:CKM**

- [AR21] Arash A. Amini and Zahra S. Razaee. Concentration of kernel matrices with application to kernel spectral clustering. *Annals of Statistics*, 49(1):531–556, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Concentration-of-kernel-matrices-with-application-to-kernel-spectral-clustering/10.1214/20-AOS1967.full>.

**Awan:2023:CND**

- [AV23] Jordan Awan and Salil Vadhan. Canonical noise distributions and private hypothesis tests. *Annals of Statistics*, 51(2):547–572, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/Canonical-noise-distributions-and-private-hypothesis-tests/10.1214/23-AOS2259.full>.

**Aue:2020:TSF**

- [AvD20] Alexander Aue and Anne van Delft. Testing for stationarity of functional time series in the frequency domain. *Annals of Statistics*, 48(5):2505–2547, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Testing-for-stationarity-of-functional-time-series-in-the-frequency/10.1214/19-AOS1895.full>.

**Aeckerle-Willems:2022:SNA**

- [AWS22] Cathrine Aeckerle-Willems and Claudia Strauch. Sup-norm adaptive drift estimation for multivariate nonreversible diffusions. *Annals of Statistics*, 50(6):3484–3509, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/Sup-norm-adaptive-drift-estimation-for-multivariate-nonreversible-diffusions/10.1214/22-AOS2237.full>.

**Aragam:2023:UCN**

- [AY23] Bryon Aragam and Ruiyi Yang. Uniform consistency in non-parametric mixture models. *Annals of Statistics*, 51(1):362–390, February 2023. CODEN ASTSC7. ISSN 0090-5364

(print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-1/Uniform-consistency-in-nonparametric-mixture-models/10.1214/22-AOS2255.full>.

**Barthelme:2023:GPR**

- [BATU23] Simon Barthelmé, Pierre-Olivier Amblard, Nicolas Tremblay, and Konstantin Usevich. Gaussian process regression in the flat limit. *Annals of Statistics*, 51(6):2471–2505, December 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-6/Gaussian-process-regression-in-the-flat-limit/10.1214/23-AOS2336.full>.

**Baraud:2020:RBL**

- [BB20] Yannick Baraud and Lucien Birgé. Robust Bayes-like estimation: Rho-Bayes estimation. *Annals of Statistics*, 48(6):3699–3720, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Robust-Bayes-like-estimation-Rho-Bayes-estimation/10.1214/20-AOS1948.full>.

**Bercu:2021:ADC**

- [BB21] Bernard Bercu and Jérémie Bigot. Asymptotic distribution and convergence rates of stochastic algorithms for entropic optimal transportation between probability measures. *Annals of Statistics*, 49(2):968–987, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Asymptotic-distribution-and-convergence-rates-of-stochastic-algorithms-for-entropic/10.1214/20-AOS1987.full>.

**Bing:2020:AES**

- [BBNW20] Xin Bing, Florentina Bunea, Yang Ning, and Marten Wegkamp. Adaptive estimation in structured factor models with applications to overlapping clustering. *Annals of Statistics*, 48(4):2055–2081, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Adaptive-estimation-in-structured-factor-models-with-applications-to-overlapping/10.1214/19-AOS1877.full>.

**Bing:2022:LES**

- [BBSMW22] Xin Bing, Florentina Bunea, Seth Strimas-Mackey, and Marten Wegkamp. Likelihood estimation of sparse topic distributions in topic models and its applications to Wasserstein document distance calculations. *Annals of Statistics*, 50(6):3307–3333, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/Likelihood-estimation-of-sparse-topic-distributions-in-topic-models-and/10.1214/22-AOS2229.full>.

**Borgs:2021:CNE**

- [BCCG21] Christian Borgs, Jennifer T. Chayes, Henry Cohn, and Shirshendu Ganguly. Consistent nonparametric estimation for heavy-tailed sparse graphs. *Annals of Statistics*, 49(4):1904–1930, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Consistent-nonparametric-estimation-for-heavy-tailed-sparse-graphs/10.1214/20-AOS1985.full>.

**Ba:2023:PIF**

- [BCCP23] Ismaïla Ba, Jean-François Coeurjolly, and Francisco Cuevas-Pacheco. Pairwise interaction function estimation of stationary Gibbs point processes using basis expansion. *Annals of Statistics*, 51(3):1134–1158, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Pairwise-interaction-function-estimation-of-stationary-Gibbs-point-processes-using/10.1214/23-AOS2284.full>.

**Bates:2023:TOC**

- [BCL<sup>+</sup>23] Stephen Bates, Emmanuel Candès, Lihua Lei, Yaniv Romano, and Matteo Sesia. Testing for outliers with conformal  $p$ -values. *Annals of Statistics*, 51(1):149–178, February 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-1/Testing-for-outliers-with-conformal-p-values/10.1214/22-AOS2244.full>.

**Belloni:2023:HDL**

- [BCPW23] Alexandre Belloni, Mingli Chen, Oscar Hernan Madrid Padilla, and Zixuan (Kevin) Wang. High-dimensional latent panel

quantile regression with an application to asset pricing. *Annals of Statistics*, 51(1):96–121, February 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-1/High-dimensional-latent-panel-quantile-regression-with-an-application-to/10.1214/22-AOS2223.full>.

**Barber:2021:PIJ**

- [BCRT21] Rina Foygel Barber, Emmanuel J. Candès, Aaditya Ramdas, and Ryan J. Tibshirani. Predictive inference with the jackknife+. *Annals of Statistics*, 49(1):486–507, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Predictive-inference-with-the-jackknife/10.1214/20-AOS1965.full>.

**Barber:2023:CPB**

- [BCRT23] Rina Foygel Barber, Emmanuel J. Candès, Aaditya Ramdas, and Ryan J. Tibshirani. Conformal prediction beyond exchangeability. *Annals of Statistics*, 51(2):816–845, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/Conformal-prediction-beyond-exchangeability/10.1214/23-AOS2276.full>.

**Barber:2020:RIK**

- [BCS20] Rina Foygel Barber, Emmanuel J. Candès, and Richard J. Samworth. Robust inference with knockoffs. *Annals of Statistics*, 48(3):1409–1431, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Robust-inference-with-knockoffs/10.1214/19-AOS1852.full>.

**Biau:2020:STP**

- [BCST20] Gérard Biau, Benoît Cadre, Maxime Sangnier, and Ugo Tanielian. Some theoretical properties of GANS. *Annals of Statistics*, 48(3):1539–1566, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Some-theoretical-properties-of-GANS/10.1214/19-AOS1858.full>.

**Bagchi:2020:TSC**

- [BD20] Pramita Bagchi and Holger Dette. A test for separability in covariance operators of random surfaces. *Annals of Statistics*, 48(4):2303–2322, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/A-test-for-separability-in-covariance-operators-of-random-surfaces/10.1214/19-AOS1888.full>.

**Bucher:2021:DGV**

- [BDH21] Axel Bücher, Holger Dette, and Florian Heinrichs. Are deviations in a gradually varying mean relevant? A testing approach based on sup-norm estimators. *Annals of Statistics*, 49(6):3583–3617, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Are-deviations-in-a-gradually-varying-mean-relevant-A-testing/10.1214/21-AOS2098.full>.

**Bhattacharya:2022:MES**

- [BDM22] Bhaswar B. Bhattacharya, Sayan Das, and Sumit Mukherjee. Motif estimation via subgraph sampling: The fourth-moment phenomenon. *Annals of Statistics*, 50(2):987–1011, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Motif-estimation-via-subgraph-sampling-The-fourth-moment-phenomenon/10.1214/21-AOS2134.full>.

**Baek:2023:LWE**

- [BDP23] Changryong Baek, Marie-Christine Düker, and Vladas Pipiras. Local Whittle estimation of high-dimensional long-run variance and precision matrices. *Annals of Statistics*, 51(6):2386–2414, December 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-6/Local-Whittle-estimation-of-high-dimensional-long-run-variance-and/10.1214/23-AOS2330.full>.

**Barber:2022:HTC**

- [BDSW22] Rina Foygel Barber, Mathias Drton, Nils Sturma, and Luca Weihs. Half-trek criterion for identifiability of latent variable models. *Annals of Statistics*, 50(6):3174–3196, December 2022.

CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/Half-trek-criterion-for-identifiability-of-latent-variable-models/10.1214/22-AOS2221.full>.

**Bao:2021:SVS**

- [BDW21] Zhigang Bao, Xiucui Ding, and Ke Wang. Singular vector and singular subspace distribution for the matrix denoising model. *Annals of Statistics*, 49(1):370–392, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Singular-vector-and-singular-subspace-distribution-for-the-matrix-denoising/10.1214/20-AOS1960.full>.

**Bao:2022:SIP**

- [BDWW22] Zhigang Bao, Xiucui Ding, Jingming Wang, and Ke Wang. Statistical inference for principal components of spiked covariance matrices. *Annals of Statistics*, 50(2):1144–1169, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Statistical-inference-for-principal-components-of-spiked-covariance-matrices/10.1214/21-AOS2143.full>.

**Berthet:2022:CRW**

- [BE22] Philippe Berthet and John H. J. Einmahl. Cube root weak convergence of empirical estimators of a density level set. *Annals of Statistics*, 50(3):1423–1446, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Cube-root-weak-convergence-of-empirical-estimators-of-a-density/10.1214/21-AOS2157.full>.

**Beyhum:2022:EPT**

- [BEPV22] Jad Beyhum, Anouar El Ghouch, François Portier, and Ingrid Van Keilegom. On an extension of the promotion time cure model. *Annals of Statistics*, 50(1):537–559, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/>

On-an-extension-of-the-promotion-time-cure-model/10.1214/21-AOS2119.full.

**Bravo:2020:TSS**

- [BEV20] Francesco Bravo, Juan Carlos Escanciano, and Ingrid Van Keilegom. Two-step semiparametric empirical likelihood inference. *Annals of Statistics*, 48(1):1–26, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930123>.

**Bickel:2021:WVZ**

- [BFdGG21] Peter Bickel, Marta Fiocco, Mathisca de Gunst, and Friedrich Götze. Willem van Zwet’s research. *Annals of Statistics*, 49(5):2439–2447, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Willem-van-Zwets-research/10.1214/21-AOS2060.full>.

**Brecheteau:2021:RBC**

- [BFL21] Claire Bréchet, Aurélie Fischer, and Clément Levrard. Robust Bregman clustering. *Annals of Statistics*, 49(3):1679–1701, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/Robust-Bregman-clustering/10.1214/20-AOS2018.full>.

**Bongers:2021:FSC**

- [BFPM21] Stephan Bongers, Patrick Forré, Jonas Peters, and Joris M. Mooij. Foundations of structural causal models with cycles and latent variables. *Annals of Statistics*, 49(5):2885–2915, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Foundations-of-structural-causal-models-with-cycles-and-latent-variables/10.1214/21-AOS2064.full>.

**Bilodeau:2023:MRC**

- [BFR23] Blair Bilodeau, Dylan J. Foster, and Daniel M. Roy. Minimax rates for conditional density estimation via empirical entropy. *Annals of Statistics*, 51(2):762–790, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/Minimax-rates->

for-conditional-density-estimation-via-empirical-entropy/  
10.1214/23-AOS2270.full.

**Bradic:2022:THD**

- [BFZ22] Jelena Bradic, Jianqing Fan, and Yinchu Zhu. Testability of high-dimensional linear models with nonsparse structures. *Annals of Statistics*, 50(2):615–639, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Testability-of-high-dimensional-linear-models-with-nonsparse-structures/10.1214/19-AOS1932.full>.

**Belitser:2020:EBO**

- [BG20] Eduard Belitser and Subhashis Ghosal. Empirical Bayes oracle uncertainty quantification for regression. *Annals of Statistics*, 48(6):3113–3137, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Empirical-Bayes-oracle-uncertainty-quantification-for-regression/10.1214/19-AOS1845.full>.

**Belomestny:2021:DDU**

- [BG21] Denis Belomestny and Alexander Goldenshluger. Density deconvolution under general assumptions on the distribution of measurement errors. *Annals of Statistics*, 49(2):615–649, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Density-deconvolution-under-general-assumptions-on-the-distribution-of-measurement/10.1214/20-AOS1969.full>.

**Bykhovskaya:2022:CLV**

- [BG22] Anna Bykhovskaya and Vadim Gorin. Cointegration in large VARs. *Annals of Statistics*, 50(3):1593–1617, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Cointegration-in-large-VARs/10.1214/21-AOS2164.full>.

**Bunea:2020:MAV**

- [BGL<sup>+</sup>20] Florentina Bunea, Christophe Giraud, Xi Luo, Martin Royer, and Nicolas Verzelen. Model assisted variable clustering: Minimax-optimal recovery and algorithms. *Annals of Statistics*, 48(1):



111–137, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930128>.

**Belitser:2012:OTS**

- [BGvZ12] Eduard Belitser, Subhashis Ghosal, and Harry van Zanten. Optimal two-stage procedures for estimating location and size of the maximum of a multivariate regression function. *Annals of Statistics*, 40(6):2850–2876, December 2012. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <http://projecteuclid.org/euclid.aos/1360332186>. See correction [BGvZ21].

**Belitser:2021:CNS**

- [BGvZ21] Eduard Belitser, Subhashis Ghosal, and Harry van Zanten. Correction note: “Optimal two-stage procedures for estimating location and size of the maximum of a multivariate regression function” *Ann. Statist.* **40** (2012) 2850–2876. *Annals of Statistics*, 49(1):612–613, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Correction-note--Optimal-two-stage-procedures-for-estimating-location/10.1214/20-AOS1993.full>. See [BGvZ12].

**Bhattacharya:2020:ADD**

- [Bha20] Bhaswar B. Bhattacharya. Asymptotic distribution and detection thresholds for two-sample tests based on geometric graphs. *Annals of Statistics*, 48(5):2879–2903, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Asymptotic-distribution-and-detection-thresholds-for-two-sample-tests-based/10.1214/19-AOS1913.full>.

**Barber:2022:TGF**

- [BJ22] Rina Foygel Barber and Lucas Janson. Testing goodness-of-fit and conditional independence with approximate co-sufficient sampling. *Annals of Statistics*, 50(5):2514–2544, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Testing-goodness-of-fit-and-conditional-independence-with-approximate-co/10.1214/22-AOS2187.full>.

**Blanchard:2023:URA**

- [BJ23] Moïse Blanchard and Patrick Jaillet. Universal regression with adversarial responses. *Annals of Statistics*, 51(3):1401–1426, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Universal-regression-with-adversarial-responses/10.1214/23-AOS2299.full>.

**Bresler:2020:LTS**

- [BK20] Guy Bresler and Mina Karzand. Learning a tree-structured Ising model in order to make predictions. *Annals of Statistics*, 48(2):713–737, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480031>.

**Bu:2023:CST**

- [BKRS23] Zhiqi Bu, Jason M. Klusowski, Cynthia Rush, and Weijie J. Su. Characterizing the SLOPE trade-off: A variational perspective and the Donoho–Tanner limit. *Annals of Statistics*, 51(1):33–61, February 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-1/Characterizing-the-SLOPE-trade-off--A-variational-perspective-and/10.1214/22-AOS2194.full>.

**Berrett:2021:ORI**

- [BKS21] Thomas B. Berrett, Ioannis Kontoyiannis, and Richard J. Samworth. Optimal rates for independence testing via  $U$ -statistic permutation tests. *Annals of Statistics*, 49(5):2457–2490, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Optimal-rates-for-independence-testing-via-U-statistic-permutation-tests/10.1214/20-AOS2041.full>.

**Banerjee:2022:OSD**

- [BM22] Debapratim Banerjee and Zongming Ma. Optimal signal detection in some spiked random matrix models: Likelihood ratio tests and linear spectral statistics. *Annals of Statistics*, 50(4):1910–1932, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/>

Optimal-signal-detection-in-some-spiked-random-matrix-models/10.1214/21-AOS2150.full.

**Bhattacharjee:2023:SIF**

- [BM23] Satarupa Bhattacharjee and Hans-Georg Müller. Single index Fréchet regression. *Annals of Statistics*, 51(4):1770–1798, August 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/Single-index-Frchet-regression/10.1214/23-AOS2307.full>.

**Butucea:2023:VSM**

- [BMNT23] Cristina Butucea, Enno Mammen, Mohamed Ndaoud, and Alexandre B. Tsybakov. Variable selection, monotone likelihood ratio and group sparsity. *Annals of Statistics*, 51(1):312–333, February 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-1/Variable-selection-monotone-likelihood-ratio-and-group-sparsity/10.1214/22-AOS2251.full>.

**Bu:2020:ODM**

- [BMY20] Xianwei Bu, Dibyen Majumdar, and Jie Yang.  $D$ -optimal designs for multinomial logistic models. *Annals of Statistics*, 48(2):983–1000, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480042>.

**Blanchard:2020:PHC**

- [BNR20] Gilles Blanchard, Pierre Neuvial, and Etienne Roquain. Post hoc confidence bounds on false positives using reference families. *Annals of Statistics*, 48(3):1281–1303, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Post-hoc-confidence-bounds-on-false-positives-using-reference-families/10.1214/19-AOS1847.full>.

**Bilodeau:2023:RDA**

- [BNR23] Blair Bilodeau, Jeffrey Negrea, and Daniel M. Roy. Relaxing the i.i.d. assumption: Adaptively minimax optimal regret via root-entropic regularization. *Annals of Statistics*, 51(4):1850–1876, August 2023. CODEN ASTSC7. ISSN 0090-5364

(print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/Relaxing-the-iid-assumption--Adaptively-minimax-optimal-regret-via/10.1214/23-AOS2315.full>.

**Bing:2022:AEM**

- [BNX22] Xin Bing, Yang Ning, and Yaosheng Xu. Adaptive estimation in multivariate response regression with hidden variables. *Annals of Statistics*, 50(2):640–672, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Adaptive-estimation-in-multivariate-response-regression-with-hidden-variables/10.1214/21-AOS2059.full>.

**Bachoc:2020:UVC**

- [BPS20] François Bachoc, David Preinerstorfer, and Lukas Steinberger. Uniformly valid confidence intervals post-model-selection. *Annals of Statistics*, 48(1):440–463, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930142>.

**Basu:2023:GMN**

- [BR23] Sumanta Basu and Suhasini Subba Rao. Graphical models for nonstationary time series. *Annals of Statistics*, 51(4):1453–1483, August 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/Graphical-models-for-nonstationary-time-series/10.1214/22-AOS2205.full>.

**Butucea:2023:IVN**

- [BRS23] Cristina Butucea, Angelika Rohde, and Lukas Steinberger. Interactive versus noninteractive locally differentially private estimation: Two elbows for the quadratic functional. *Annals of Statistics*, 51(2):464–486, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/Interactive-versus-noninteractive-locally-differentially-private-estimation--Two-elbows/10.1214/22-AOS2254.full>.

**Berg:2023:ESC**

- [BS23a] Stephen Berg and Hyebin Song. Efficient shape-constrained inference for the autocovariance sequence from a reversible Markov chain. *Annals of Statistics*, 51(6):2440–2470, December 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-6/Efficient-shape-constrained-inference-for-the-autocovariance-sequence-from-a/10.1214/23-AOS2335.full>.

**Berrett:2023:EFE**

- [BS23b] Thomas B. Berrett and Richard J. Samworth. Efficient functional estimation and the super-oracle phenomenon. *Annals of Statistics*, 51(2):668–690, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/Efficient-functional-estimation-and-the-super-oracle-phenomenon/10.1214/23-AOS2265.full>.

**Berrett:2023:ONT**

- [BS23c] Thomas B. Berrett and Richard J. Samworth. Optimal non-parametric testing of missing completely at random and its connections to compatibility. *Annals of Statistics*, 51(5):2170–2193, October 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-5/Optimal-nonparametric-testing-of-Missing-Completely-At-Random-and-its/10.1214/23-AOS2326.full>.

**Berger:2020:BAC**

- [BSS20] James O. Berger, Dongchu Sun, and Chengyuan Song. Bayesian analysis of the covariance matrix of a multivariate normal distribution with a new class of priors. *Annals of Statistics*, 48(4):2381–2403, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Bayesian-analysis-of-the-covariance-matrix-of-a-multivariate-normal/10.1214/19-AOS1891.full>.

**Bertsimas:2020:SHD**

- [BV20] Dimitris Bertsimas and Bart Van Parys. Sparse high-dimensional regression: Exact scalable algorithms and phase transitions.

*Annals of Statistics*, 48(1):300–323, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930136>.

**Bing:2023:ODA**

- [BW23] Xin Bing and Marten Wegkamp. Optimal discriminant analysis in high-dimensional latent factor models. *Annals of Statistics*, 51(3):1232–1257, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Optimal-discriminant-analysis-in-high-dimensional-latent-factor-models/10.1214/23-AOS2289.full>.

**Bellec:2021:SOS**

- [BZ21] Pierre C. Bellec and Cun-Hui Zhang. Second-order Stein: SURE for SURE and other applications in high-dimensional inference. *Annals of Statistics*, 49(4):1864–1903, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Second-order-Stein--SURE-for-SURE-and-other-applications/10.1214/20-AOS2005.full>.

**Bellec:2023:DCR**

- [BZ23a] Pierre C. Bellec and Cun-Hui Zhang. Debiasing convex regularized estimators and interval estimation in linear models. *Annals of Statistics*, 51(2):391–436, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/Debiasing-convex-regularized-estimators-and-interval-estimation-in-linear-models/10.1214/22-AOS2243.full>.

**Bucher:2023:DSB**

- [BZ23b] Axel Bücher and Leandra Zanger. On the disjoint and sliding block maxima method for piecewise stationary time series. *Annals of Statistics*, 51(2):573–598, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/On-the-disjoint-and-sliding-block-maxima-method-for-piecewise/10.1214/23-AOS2260.full>.

**Cannings:2020:LNN**

- [CBS20] Timothy I. Cannings, Thomas B. Berrett, and Richard J. Samworth. Local nearest neighbour classification with applications to semi-supervised learning. *Annals of Statistics*, 48(3):1789–1814, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Local-nearest-neighbour-classification-with-applications-to-semi-supervised-learning/10.1214/19-AOS1868.full>.

**Chaudhuri:2023:CVF**

- [CC23] Anamitra Chaudhuri and Sabyasachi Chatterjee. A cross-validation framework for signal denoising with applications to trend filtering, dyadic CART and beyond. *Annals of Statistics*, 51(4):1534–1560, August 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/A-cross-validation-framework-for-signal-denoising-with-applications-to/10.1214/23-AOS2283.full>.

**Chen:2021:AHE**

- [CCF21] Yuxin Chen, Chen Cheng, and Jianqing Fan. Asymmetry helps: Eigenvalue and eigenvector analyses of asymmetrically perturbed low-rank matrices. *Annals of Statistics*, 49(1):435–458, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Asymmetry-helps--Eigenvalue-and-eigenvector-analyses-of-asymmetrically-perturbed/10.1214/20-AOS1963.full>.

**Chernozhuokov:2022:ICL**

- [CCKK22] Victor Chernozhuokov, Denis Chetverikov, Kengo Kato, and Yuta Koike. Improved central limit theorem and bootstrap approximations in high dimensions. *Annals of Statistics*, 50(5):2562–2586, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Improved-central-limit-theorem-and-bootstrap-approximations-in-high-dimensions/10.1214/22-AOS2193.full>.

**Comminges:2021:ARE**

- [CCNT21] L. Comminges, O. Collier, M. Ndaoud, and A. B. Tsybakov. Adaptive robust estimation in sparse vector model.

*Annals of Statistics*, 49(3):1347–1377, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/Adaptive-robust-estimation-in-sparse-vector-model/10.1214/20-AOS2002.full>.

Cao:2022:OFD

- [CCZ22] Hongyuan Cao, Jun Chen, and Xianyang Zhang. Optimal false discovery rate control for large scale multiple testing with auxiliary information. *Annals of Statistics*, 50(2): 807–857, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Optimal-false-discovery-rate-control-for-large-scale-multiple-testing/10.1214/21-AOS2128.full>.

Carpentier:2021:EME

- [CDRV21] Alexandra Carpentier, Sylvain Delattre, Etienne Roquain, and Nicolas Verzelen. Estimating minimum effect with outlier selection. *Annals of Statistics*, 49(1):272–294, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Estimating-minimum-effect-with-outlier-selection/10.1214/20-AOS1956.full>.

Cattaneo:2020:LSP

- [CFF20] Matias D. Cattaneo, Max H. Farrell, and Yingjie Feng. Large sample properties of partitioning-based series estimators. *Annals of Statistics*, 48(3):1718–1741, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Large-sample-properties-of-partitioning-based-series-estimators/10.1214/19-AOS1865.full>.

Celentano:2023:LCT

- [CFM23] Michael Celentano, Zhou Fan, and Song Mei. Local convexity of the TAP free energy and AMP convergence for. *Annals of Statistics*, 51(2):519–546, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/Local-convexity-of-the-TAP-free-energy-and-AMP-convergence/10.1214/23-AOS2257.full>.



**Chen:2021:BCN**

- [CFMY21] Yuxin Chen, Jianqing Fan, Cong Ma, and Yuling Yan. Bridging convex and nonconvex optimization in robust PCA: Noise, outliers and missing data. *Annals of Statistics*, 49(5):2948–2971, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Bridging-convex-and-nonconvex-optimization-in-robust-PCA--Noise/10.1214/21-AOS2066.full>.

**Chatelain:2020:IAC**

- [CFN20] Simon Chatelain, Anne-Laure Fougères, and Johanna G. Neslehová. Inference for Archimax copulas. *Annals of Statistics*, 48(2):1025–1051, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480044>.

**Camerlenghi:2021:ODR**

- [CFNP21] Federico Camerlenghi, Stefano Favaro, Zacharie Naulet, and Francesca Panero. Optimal disclosure risk assessment. *Annals of Statistics*, 49(2):723–744, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Optimal-disclosure-risk-assessment/10.1214/20-AOS1975.full>.

**Chakraborty:2021:CCI**

- [CG21a] Moumita Chakraborty and Subhashis Ghosal. Coverage of credible intervals in nonparametric monotone regression. *Annals of Statistics*, 49(2):1011–1028, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Coverage-of-credible-intervals-in-nonparametric-monotone-regression/10.1214/20-AOS1989.full>.

**Chatterjee:2021:AEM**

- [CG21b] Sabyasachi Chatterjee and Subhajit Goswami. Adaptive estimation of multivariate piecewise polynomials and bounded variation functions by optimal decision trees. *Annals of Statistics*, 49(5):2531–2551, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/>

Adaptive-estimation-of-multivariate-piecewise-polynomials-  
and-bounded-variation-functions/10.1214/20-AOS2045.full.

**Comte:2020:NDE**

- [CGC20] Fabienne Comte and Valentine Genon-Catalot. Nonparametric drift estimation for i.i.d. paths of stochastic differential equations. *Annals of Statistics*, 48(6):3336–3365, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Nonparametric-drift-estimation-for-iid-paths-of-stochastic-differential-equations/10.1214/19-AOS1933.full>.

**Chronopoulos:2022:CBP**

- [CGK22] Ilias Chronopoulos, Liudas Giraitis, and George Kapetanios. Choosing between persistent and stationary volatility. *Annals of Statistics*, 50(6):3466–3483, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/Choosing-between-persistent-and-stationary-volatility/10.1214/22-AOS2236.full>.

**Chen:2022:OFR**

- [CGZ22a] Pinhan Chen, Chao Gao, and Anderson Y. Zhang. Optimal full ranking from pairwise comparisons. *Annals of Statistics*, 50(3):1775–1805, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Optimal-full-ranking-from-pairwise-comparisons/10.1214/22-AOS2175.full>.

**Chen:2022:PRT**

- [CGZ22b] Pinhan Chen, Chao Gao, and Anderson Y. Zhang. Partial recovery for top- $k$  ranking: Optimality of MLE and SubOptimality of the spectral method. *Annals of Statistics*, 50(3):1618–1652, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Partial-recovery-for-top-k-ranking--Optimality-of-MLE/10.1214/21-AOS2166.full>.

**Chan:2020:MAB**

- [Cha20] Hock Peng Chan. The multi-armed bandit problem: An efficient nonparametric solution. *Annals of Statistics*, 48(1):346–373,

February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930138>.

**Chan:2022:GFT**

- [Cha22a] Kin Wai Chan. General and feasible tests with multiply-imputed datasets. *Annals of Statistics*, 50(2):930–948, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/General-and-feasible-tests-with-multiply-imputed-datasets/10.1214/21-AOS2132.full>.

**Chan:2022:ODB**

- [Cha22b] Kin Wai Chan. Optimal difference-based variance estimators in time series: a general framework. *Annals of Statistics*, 50(3):1376–1400, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Optimal-difference-based-variance-estimators-in-time-series--A/10.1214/21-AOS2154.full>.

**Chen:2021:SMN**

- [Che21] Louis H. Y. Chen. Stein’s method of normal approximation: Some recollections and reflections. *Annals of Statistics*, 49(4):1850–1863, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Steins-method-of-normal-approximation-Some-recollections-and-reflections/10.1214/21-AOS2083.full>.

**Chen:2022:PGG**

- [Che22] Yen-Chi Chen. Pattern graphs: a graphical approach to nonmonotone missing data. *Annals of Statistics*, 50(1):129–146, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Pattern-graphs-A-graphical-approach-to-nonmonotone-missing-data/10.1214/21-AOS2094.full>.

**Chernozhukov:2021:LDI**

- [CHHW21] Victor Chernozhukov, Wolfgang Karl Härdle, Chen Huang, and Weining Wang. LASSO-driven inference in time and

space. *Annals of Statistics*, 49(3):1702–1735, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/LASSO-driven-inference-in-time-and-space/10.1214/20-AOS2019.full>.

**Chernozhukov:2023:ILR**

- [CHLZ23] Victor Chernozhukov, Christian Hansen, Yuan Liao, and Yinchu Zhu. Inference for low-rank models. *Annals of Statistics*, 51(3):1309–1330, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Inference-for-low-rank-models/10.1214/23-AOS2293.full>.

**Chong:2020:HFA**

- [Cho20] Carsten Chong. High-frequency analysis of parabolic stochastic PDEs. *Annals of Statistics*, 48(2):1143–1167, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480049>.

**Cai:2020:LLD**

- [CHP20] T. Tony Cai, Xiao Han, and Guangming Pan. Limiting laws for divergent spiked eigenvalues and largest nonspiked eigenvalue of sample covariance matrices. *Annals of Statistics*, 48(3):1255–1280, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Limiting-laws-for-divergent-spiked-eigenvalues-and-largest-nonspiked-eigenvalue/10.1214/18-AOS1798.full>.

**Cheysson:2022:SEH**

- [CL22] Felix Cheysson and Gabriel Lang. Spectral estimation of Hawkes processes from count data. *Annals of Statistics*, 50(3):1722–1746, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Spectral-estimation-of-Hawkes-processes-from-count-data/10.1214/22-AOS2173.full>.

**Cai:2021:SEU**

- [CLC<sup>+</sup>21a] Changxiao Cai, Gen Li, Yuejie Chi, H. Vincent Poor, and Yuxin Chen. Subspace estimation from unbalanced and incomplete data matrices. *Annals of Statistics*, 49(2):944–967, April 2021.

CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Subspace-estimation-from-unbalanced-and-incomplete-data-matrices--%e2%84%932/10.1214/20-AOS1986.full>.

**Chetverikov:2021:CVL**

- [CLC21b] Denis Chetverikov, Zhipeng Liao, and Victor Chernozhukov. On cross-validated Lasso in high dimensions. *Annals of Statistics*, 49(3):1300–1317, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/On-cross-validated-Lasso-in-high-dimensions/10.1214/20-AOS2000.full>.

**Chen:2022:GIC**

- [CLM22] Shuxiao Chen, Sifan Liu, and Zongming Ma. Global and individualized community detection in inhomogeneous multilayer networks. *Annals of Statistics*, 50(5):2664–2693, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Global-and-individualized-community-detection-in-inhomogeneous-multilayer-networks/10.1214/22-AOS2202.full>.

**Camerlenghi:2021:SAH**

- [CLP21a] Federico Camerlenghi, Antonio Lijoi, and Igor Prünster. Survival analysis via hierarchically dependent mixture hazards. *Annals of Statistics*, 49(2):863–884, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Survival-analysis-via-hierarchically-dependent-mixture-hazards/10.1214/20-AOS1982.full>.

**Catalano:2021:MDW**

- [CLP21b] Marta Catalano, Antonio Lijoi, and Igor Prünster. Measuring dependence in the Wasserstein distance for Bayesian nonparametric models. *Annals of Statistics*, 49(5):2916–2947, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Measuring-dependence-in-the-Wasserstein-distance-for-Bayesian-nonparametric-models/10.1214/21-AOS2065.full>.

**Chen:2020:SIM**

- [CLTZ20] Xi Chen, Jason D. Lee, Xin T. Tong, and Yichen Zhang. Statistical inference for model parameters in stochastic gradient descent. *Annals of Statistics*, 48(1):251–273, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930134>.

**Chinot:2022:RMN**

- [CLvdG22] Geoffrey Chinot, Matthias Löffler, and Sara van de Geer. On the robustness of minimum norm interpolators and regularized empirical risk minimizers. *Annals of Statistics*, 50(4):2306–2333, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/On-the-robustness-of-minimum-norm-interpolators-and-regularized-empirical/10.1214/22-AOS2190.full>.

**Caponera:2021:ASF**

- [CM21] Alessia Caponera and Domenico Marinucci. Asymptotics for spherical functional autoregressions. *Annals of Statistics*, 49(1):346–369, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Asymptotics-for-spherical-functional-autoregressions/10.1214/20-AOS1959.full>.

**Celentano:2022:FBH**

- [CM22a] Michael Celentano and Andrea Montanari. Fundamental barriers to high-dimensional regression with convex penalties. *Annals of Statistics*, 50(1):170–196, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Fundamental-barriers-to-high-dimensional-regression-with-convex-penalties/10.1214/21-AOS2100.full>.

**Chen:2022:UCL**

- [CM22b] Yaqing Chen and Hans-Georg Müller. Uniform convergence of local Fréchet regression with applications to locating extrema and time warping for metric space valued trajectories. *Annals of Statistics*, 50(3):1573–1592, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (elec-

tronic). URL [https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Uniform-convergence-of-local-Fr%  
c3%a9chet-regression-with-applications-to-locating/10.1214/21-AOS2163.full](https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Uniform-convergence-of-local-Fr%c3%a9chet-regression-with-applications-to-locating/10.1214/21-AOS2163.full).

**Celentano:2023:LGG**

- [CMW23] Michael Celentano, Andrea Montanari, and Yuting Wei. The lasso with general Gaussian designs with applications to hypothesis testing. *Annals of Statistics*, 51(5):2194–2220, October 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-5/The-Lasso-with-general-Gaussian-designs-with-applications-to-hypothesis/10.1214/23-AOS2327.full>.

**Chan:2021:OCP**

- [CNY21] Ngai Hang Chan, Wai Leong Ng, Chun Yip Yau, and Haihan Yu. Optimal change-point estimation in time series. *Annals of Statistics*, 49(4):2336–2355, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Optimal-change-point-estimation-in-time-series/10.1214/20-AOS2039.full>.

**Cox:2020:ASU**

- [Cox20] Gregory Cox. Almost sure uniqueness of a global minimum without convexity. *Annals of Statistics*, 48(1):584–606, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930148>.

**Chandler:2021:MGF**

- [CP21a] Gabriel Chandler and Wolfgang Polonik. Multiscale geometric feature extraction for high-dimensional and non-Euclidean data with applications. *Annals of Statistics*, 49(2):988–1010, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Multiscale-geometric-feature-extraction-for-high-dimensional-and-non-Euclidean/10.1214/20-AOS1988.full>.

**Chen:2021:DSI**

- [CP21b] Song Xi Chen and Liuhua Peng. Distributed statistical inference for massive data. *Annals of Statistics*, 49(5):2851–

2869, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Distributed-statistical-inference-for-massive-data/10.1214/21-AOS2062.full>.

**Cai:2022:SCA**

[CP22a] T. Tony Cai and Hongming Pu. Stochastic continuum-armed bandits with additive models: Minimax regrets and adaptive algorithm. *Annals of Statistics*, 50(4):2179–2204, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/Stochastic-continuum-armed-bandits-with-additive-models--Minimax-regrets/10.1214/22-AOS2182.full>.

**Charkaborty:2022:TRC**

[CP22b] Anirvan Charkaborty and Victor M. Panaretos. Testing for the rank of a covariance operator. *Annals of Statistics*, 50(6):3510–3537, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/Testing-for-the-rank-of-a-covariance-operator/10.1214/22-AOS2238.full>.

**Christgau:2023:NCL**

[CPH23] Alexander Mangulad Christgau, Lasse Petersen, and Niels Richard Hansen. Nonparametric conditional local independence testing. *Annals of Statistics*, 51(5):2116–2144, October 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-5/Nonparametric-conditional-local-independence-testing/10.1214/23-AOS2323.full>.

**Chandrasekher:2023:SGC**

[CPT23] Kabir Aladin Chandrasekher, Ashwin Pananjady, and Christos Thrampoulidis. Sharp global convergence guarantees for iterative nonconvex optimization with random data. *Annals of Statistics*, 51(1):179–210, February 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-1/Sharp-global-convergence-guarantees-for-iterative-nonconvex-optimization-with-random/10.1214/22-AOS2246.full>.



**Chen:2023:SOH**

- [CQZ23] Song Xi Chen, Yumou Qiu, and Shuyi Zhang. Sharp optimality for high-dimensional covariance testing under sparse signals. *Annals of Statistics*, 51(5):1921–1945, October 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-5/Sharp-optimality-for-high-dimensional-covariance-testing-under-sparse-signals/10.1214/23-AOS2310.full>.

**Castillo:2020:SSE**

- [CR20] Ismaël Castillo and Étienne Roquain. On spike and slab empirical Bayes multiple testing. *Annals of Statistics*, 48(5):2548–2574, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/On-spike-and-slab-empirical-Bayes-multiple-testing/10.1214/19-AOS1897.full>.

**Castillo:2021:UQB**

- [CR21] Ismaël Castillo and Veronika Rocková. Uncertainty quantification for Bayesian CART. *Annals of Statistics*, 49(6):3482–3509, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Uncertainty-quantification-for-Bayesian-CART/10.1214/21-AOS2093.full>.

**Candes:2020:PTE**

- [CS20] Emmanuel J. Candès and Pragya Sur. The phase transition for the existence of the maximum likelihood estimate in high-dimensional logistic regression. *Annals of Statistics*, 48(1):27–42, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930124>.

**Chzhen:2022:MFQ**

- [CS22] Evgenii Chzhen and Nicolas Schreuder. A minimax framework for quantifying risk-fairness trade-off in regression. *Annals of Statistics*, 50(4):2416–2442, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/A-minimax-framework->

for-quantifying-risk-fairness-trade-off-in/10.1214/22-AOS2198.full.

**Chopin:2022:RSP**

- [CSSV22] Nicolas Chopin, Sumeetpal S. Singh, Tomás Soto, and Matti Vi-hola. On resampling schemes for particle filters with weakly informative observations. *Annals of Statistics*, 50(6):3197–3222, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/On-resampling-schemes-for-particle-filters-with-weakly-informative-observations/10.1214/22-AOS2222.full>.

**Chen:2022:SOA**

- [CT22] Guanzhou Chen and Boxin Tang. A study of orthogonal array-based designs under a broad class of space-filling criteria. *Annals of Statistics*, 50(5):2925–2949, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/A-study-of-orthogonal-array-based-designs-under-a-broad/10.1214/22-AOS2215.full>.

**Castillo:2021:MBS**

- [CvdP21] Ismaël Castillo and Stéphanie van der Pas. Multiscale Bayesian survival analysis. *Annals of Statistics*, 49(6):3559–3582, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Multiscale-Bayesian-survival-analysis/10.1214/21-AOS2097.full>.

**Chi:2022:APH**

- [CVFL22] Chien-Ming Chi, Patrick Vossler, Yingying Fan, and Jinchi Lv. Asymptotic properties of high-dimensional random forests. *Annals of Statistics*, 50(6):3415–3438, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/Asymptotic-properties-of-high-dimensional-random-forests/10.1214/22-AOS2234.full>.

Cai:2020:SCL

- [CW20] T. Tony Cai and Yihong Wu. Statistical and computational limits for sparse matrix detection. *Annals of Statistics*, 48(3): 1593–1614, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Statistical-and-computational-limits-for-sparse-matrix-detection/10.1214/19-AOS1860.full>.

Cai:2021:TLN

- [CW21] T. Tony Cai and Hongji Wei. Transfer learning for non-parametric classification: Minimax rate and adaptive classifier. *Annals of Statistics*, 49(1):100–128, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Transfer-learning-for-nonparametric-classification--Minimax-rate-and-adaptive/10.1214/20-AOS1949.full>.

Cai:2022:DAG

- [CW22a] T. Tony Cai and Hongji Wei. Distributed adaptive Gaussian mean estimation with unknown variance: Interactive protocol helps adaptation. *Annals of Statistics*, 50(4):1992–2020, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/Distributed-adaptive-Gaussian-mean-estimation-with-unknown-variance--Interactive/10.1214/21-AOS2167.full>.

Cai:2022:DNF

- [CW22b] T. Tony Cai and Hongji Wei. Distributed nonparametric function estimation: Optimal rate of convergence and cost of adaptation. *Annals of Statistics*, 50(2):698–725, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Distributed-nonparametric-function-estimation--Optimal-rate-of-convergence-and/10.1214/21-AOS2124.full>.

Cai:2021:CPO

- [CWZ21] T. Tony Cai, Yichen Wang, and Linjun Zhang. The cost of privacy: Optimal rates of convergence for parameter estimation with differential privacy. *Annals of Statistics*, 49(5):2825–

2850, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/The-cost-of-privacy--Optimal-rates-of-convergence-for/10.1214/21-AOS2058.full>.

**Chen:2020:RIM**

- [CZ20] Xi Chen and Wen-Xin Zhou. Robust inference via multiplier bootstrap. *Annals of Statistics*, 48(3):1665–1691, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Robust-inference-via-multiplier-bootstrap/10.1214/19-AOS1863.full>.

**Cai:2021:COA**

- [CZ21] T. Tony Cai and Linjun Zhang. A convex optimization approach to high-dimensional sparse quadratic discriminant analysis. *Annals of Statistics*, 49(3):1537–1568, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/A-convex-optimization-approach-to-high-dimensional-sparse-quadratic-discriminant/10.1214/20-AOS2012.full>.

**delAlamo:2021:FCT**

- [dÁLM21] Miguel del Álamo, Housen Li, and Axel Munk. Frame-constrained total variation regularization for white noise regression. *Annals of Statistics*, 49(3):1318–1346, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/Frame-constrained-total-variation-regularization-for-white-noise-regression/10.1214/20-AOS2001.full>.

**Dau:2023:BSA**

- [DC23] Hai-Dang Dau and Nicolas Chopin. On backward smoothing algorithms. *Annals of Statistics*, 51(5):2145–2169, October 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-5/On-backward-smoothing-algorithms/10.1214/23-AOS2324.full>.

**DiBenedetto:2021:NRP**

- [DCT21] Giuseppe Di Benedetto, François Caron, and Yee Whye Teh. Nonexchangeable random partition models for microclustering. *Annals of Statistics*, 49(4):1931–1957, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Nonexchangeable-random-partition-models-for-microclustering/10.1214/20-AOS2003.full>.

**Ding:2023:MRT**

- [DD23] Jian Ding and Hang Du. Matching recovery threshold for correlated random graphs. *Annals of Statistics*, 51(4):1718–1743, August 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/Matching-recovery-threshold-for-correlated-random-graphs/10.1214/23-AOS2305.full>.

**Dieuleveut:2020:BGB**

- [DDB20] Aymeric Dieuleveut, Alain Durmus, and Francis Bach. Bridging the gap between constant step size stochastic gradient descent and Markov chains. *Annals of Statistics*, 48(3):1348–1382, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Bridging-the-gap-between-constant-step-size-stochastic-gradient-descent/10.1214/19-AOS1850.full>.

**Davezies:2021:EPR**

- [DDG21] Laurent Davezies, Xavier D’Haultfoeuille, and Yannick Guyonvarch. Empirical process results for exchangeable arrays. *Annals of Statistics*, 49(2):845–862, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Empirical-process-results-for-exchangeable-arrays/10.1214/20-AOS1981.full>.

**Daudel:2021:IDG**

- [DDP21] Kamélia Daudel, Randal Douc, and François Portier. Infinite-dimensional gradient-based descent for alpha-divergence minimisation. *Annals of Statistics*, 49(4):2250–2270, August 2021.

CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Infinite-dimensional-gradient-based-descent-for-alpha-divergence-minimisation/10.1214/20-AOS2035.full>.

**DeCastro:2021:SSR**

- [DGMMR21] Y. De Castro, S. Gadat, C. Marteau, and C. Maugis-Rabusseau. SuperMix: Sparse regularization for mixtures. *Annals of Statistics*, 49(3):1779–1809, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/SuperMix-Sparse-regularization-for-mixtures/10.1214/20-AOS2022.full>.

**Donoho:2023:SEM**

- [DGR23] David Donoho, Matan Gavish, and Elad Romanov. ScreenNOT: Exact MSE-optimal singular value thresholding in correlated noise. *Annals of Statistics*, 51(1):122–148, February 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-1/ScreenNOT--Exact-MSE-optimal-singular-value-thresholding-in-correlated/10.1214/22-AOS2232.full>.

**Dwivedi:2020:SMC**

- [DHK<sup>+</sup>20] Raaz Dwivedi, Nhat Ho, Koulik Khamaru, Martin J. Wainwright, Michael I. Jordan, and Bin Yu. Singularity, misspecification and the convergence rate of EM. *Annals of Statistics*, 48(6):3161–3182, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Singularity-misspecification-and-the-convergence-rate-of-EM/10.1214/19-AOS1924.full>.

**Drton:2020:HDC**

- [DHS20] Mathias Drton, Fang Han, and Hongjian Shi. High-dimensional consistent independence testing with maxima of rank correlations. *Annals of Statistics*, 48(6):3206–3227, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/High-dimensional-consistent-independence-testing-with-maxima-of-rank-correlations/10.1214/19-AOS1926.full>.

**Deng:2021:CIM**

- [DHZ21] Hang Deng, Qiyang Han, and Cun-Hui Zhang. Confidence intervals for multiple isotonic regression and other monotone models. *Annals of Statistics*, 49(4):2021–2052, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Confidence-intervals-for-multiple-isotonic-regression-and-other-monotone-models/10.1214/20-AOS2025.full>.

**Duffy:2021:EIP**

- [DK21] James A. Duffy and Ioannis Kasparis. Estimation and inference in the presence of fractional. *Annals of Statistics*, 49(2):1195–1217, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Estimation-and-inference-in-the-presence-of-fractional-d1-2/10.1214/20-AOS1998.full>.

**Donoho:2022:HCC**

- [DK22] David L. Donoho and Alon Kipnis. Higher criticism to compare two large frequency tables, with sensitivity to possible rare and weak differences. *Annals of Statistics*, 50(3):1447–1472, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Higher-criticism-to-compare-two-large-frequency-tables-with-sensitivity/10.1214/21-AOS2158.full>.

**Dette:2020:FDA**

- [DKA20] Holger Dette, Kevin Kokot, and Alexander Aue. Functional data analysis in the Banach space of continuous functions. *Annals of Statistics*, 48(2):1168–1192, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480050>.

**Drton:2021:EUK**

- [DKH21] Mathias Drton, Satoshi Kuriki, and Peter Hoff. Existence and uniqueness of the Kronecker covariance MLE. *Annals of Statistics*, 49(5):2721–2754, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals->

- of-statistics/volume-49/issue-5/Existence-and-uniqueness-  
of-the-Kronecker-covariance-MLE/10.1214/21-AOS2052.full.
- Depersin:2022:RSG**
- [DL22] Jules Depersin and Guillaume Lecué. Robust sub-Gaussian estimation of a mean vector in nearly linear time. *Annals of Statistics*, 50(1):511–536, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Robust-sub-Gaussian-estimation-of-a-mean-vector-in-nearly/10.1214/21-AOS2118.full>.
- Dobriban:2020:OPL**
- [DLS20] Edgar Dobriban, William Leeb, and Amit Singer. Optimal prediction in the linearly transformed spiked model. *Annals of Statistics*, 48(1):491–513, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930144>.
- Dette:2022:DAG**
- [DLY22] Holger Dette, Xin Liu, and Rong-Xian Yue. Design admissibility and de la Garza phenomenon in multifactor experiments. *Annals of Statistics*, 50(3):1247–1265, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Design-admissibility-and-de-la-Garza-phenomenon-in-multifactor-experiments/10.1214/21-AOS2147.full>.
- Dubey:2020:FCP**
- [DM20] Paromita Dubey and Hans-Georg Müller. Fréchet change-point detection. *Annals of Statistics*, 48(6):3312–3335, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Fr%c3%a9chet-change-point-detection/10.1214/19-AOS1930.full>.
- Dalalyan:2022:AOR**
- [DM22] Arnak S. Dalalyan and Arshak Minasyan. All-in-one robust estimator of the Gaussian mean. *Annals of Statistics*, 50(2):1193–1219, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/All->



in-one-robust-estimator-of-the-Gaussian-mean/10.1214/21-AOS2145.full.

**Ding:2023:LLD**

- [DM23] Xiukai Ding and Rong Ma. Learning low-dimensional nonlinear structures from high-dimensional noisy data: an integral operator approach. *Annals of Statistics*, 51(4):1744–1769, August 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/Learning-low-dimensional-nonlinear-structures-from-high-dimensional-noisy-data/10.1214/23-AOS2306.full>.

**Dirksen:2022:CEU**

- [DMR22] Sjoerd Dirksen, Johannes Maly, and Holger Rauhut. Covariance estimation under one-bit quantization. *Annals of Statistics*, 50(6):3538–3562, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/Covariance-estimation-under-one-bit-quantization/10.1214/22-AOS2239.full>.

**Durmus:2020:IGE**

- [DMS20] Alain Durmus, Éric Moulines, and Eero Saksman. Irreducibility and geometric ergodicity of Hamiltonian Monte Carlo. *Annals of Statistics*, 48(6):3545–3564, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Irreducibility-and-geometric-ergodicity-of-Hamiltonian-Monte-Carlo/10.1214/19-AOS1941.full>.

**Duchi:2021:LMU**

- [DN21] John C. Duchi and Hongseok Namkoong. Learning models with uniform performance via distributionally robust optimization. *Annals of Statistics*, 49(3):1378–1406, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/Learning-models-with-uniform-performance-via-distributionally-robust-optimization/10.1214/20-AOS2004.full>.

- Dobriban:2020:PMF**
- [Dob20] Edgar Dobriban. Permutation methods for factor analysis and PCA. *Annals of Statistics*, 48(5):2824–2847, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Permutation-methods-for-factor-analysis-and-PCA/10.1214/19-AOS1907.full>.
- Dobriban:2022:CIB**
- [Dob22] Edgar Dobriban. Consistency of invariance-based randomization tests. *Annals of Statistics*, 50(4):2443–2466, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/Consistency-of-invariance-based-randomization-tests/10.1214/22-AOS2200.full>.
- Delyon:2021:SAI**
- [DP21] Bernard Delyon and François Portier. Safe adaptive importance sampling: a mixture approach. *Annals of Statistics*, 49(2):885–917, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Safe-adaptive-importance-sampling-A-mixture-approach/10.1214/20-AOS1983.full>.
- Durre:2022:AEI**
- [DP22] Alexander Dürre and Davy Paindaveine. Affine-equivariant inference for multivariate location under. *Annals of Statistics*, 50(5):2616–2640, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Affine-equivariant-inference-for-multivariate-location-under-Lp-loss-functions/10.1214/22-AOS2199.full>.
- Ding:2020:DSA**
- [DQW20] Shanshan Ding, Wei Qian, and Lan Wang. Double-slicing assisted sufficient dimension reduction for high-dimensional censored data. *Annals of Statistics*, 48(4):2132–2154, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Double-slicing-assisted-sufficient-dimension-reduction-for-high-dimensional-censored/10.1214/19-AOS1880.full>.

**Duanmu:2021:EAP**

- [DR21a] Haosui Duanmu and Daniel M. Roy. On extended admissible procedures and their nonstandard Bayes risk. *Annals of Statistics*, 49(4):2053–2078, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/On-extended-admissible-procedures-and-their-nonstandard-Bayes-risk/10.1214/20-AOS2026.full>.

**Duchi:2021:AOS**

- [DR21b] John C. Duchi and Feng Ruan. Asymptotic optimality in stochastic optimization. *Annals of Statistics*, 49(1):21–48, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Asymptotic-optimality-in-stochastic-optimization/10.1214/19-AOS1831.full>.

**deChaumaray:2021:WTS**

- [dRdCMP21] Marie du Roy de Chaumaray, Matthieu Marbac, and Valentin Patilea. Wilks’ theorem for semiparametric regressions with weakly dependent data. *Annals of Statistics*, 49(6):3228–3254, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Wilks-theorem-for-semiparametric-regressions-with-weakly-dependent-data/10.1214/21-AOS2081.full>.

**Drees:2023:SIC**

- [Dre23] Holger Drees. Statistical inference on a changing extreme value dependence structure. *Annals of Statistics*, 51(4):1824–1849, August 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/Statistical-inference-on-a-changing-extreme-value-dependence-structure/10.1214/23-AOS2314.full>.

**Donnet:2020:NBE**

- [DRR20] Sophie Donnet, Vincent Rivoirard, and Judith Rousseau. Nonparametric Bayesian estimation for multivariate Hawkes processes. *Annals of Statistics*, 48(5):2698–2727, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966

(electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Nonparametric-Bayesian-estimation-for-multivariate-Hawkes-processes/10.1214/19-AOS1903.full>.

**Dobriban:2021:DLR**

- [DS21] Edgar Dobriban and Yue Sheng. Distributed linear regression by averaging. *Annals of Statistics*, 49(2):918–943, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Distributed-linear-regression-by-averaging/10.1214/20-AOS1984.full>.

**Derumigny:2023:LBB**

- [DSH23] Alexis Derumigny and Johannes Schmidt-Hieber. On lower bounds for the bias-variance trade-off. *Annals of Statistics*, 51(4):1510–1533, August 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/On-lower-bounds-for-the-bias-variance-trade-off/10.1214/23-AOS2279.full>.

**Daouia:2023:IER**

- [DSUC23] Abdelaati Daouia, Gilles Stupfler, and Antoine Usseglio-Carleve. Inference for extremal regression with dependent heavy-tailed data. *Annals of Statistics*, 51(5):2040–2066, October 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-5/Inference-for-extremal-regression-with-dependent-heavy-tailed-data/10.1214/23-AOS2320.full>.

**Duan:2023:ARM**

- [DW23a] Yaqi Duan and Kaizheng Wang. Adaptive and robust multi-task learning. *Annals of Statistics*, 51(5):2015–2039, October 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-5/Adaptive-and-robust-multi-task-learning/10.1214/23-AOS2319.full>.

**Dumbgen:2023:NAT**

- [DW23b] Lutz Dümbgen and Jon A. Wellner. A new approach to tests and confidence bands for distribution functions.

*Annals of Statistics*, 51(1):260–289, February 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-1/A-new-approach-to-tests-and-confidence-bands-for-distribution/10.1214/22-AOS2249.full>.

**Doss:2023:OEH**

- [DWYZ23] Natalie Doss, Yihong Wu, Pengkun Yang, and Harrison H. Zhou. Optimal estimation of high-dimensional Gaussian location mixtures. *Annals of Statistics*, 51(1):62–95, February 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-1/Optimal-estimation-of-high-dimensional-Gaussian-location-mixtures/10.1214/22-AOS2207.full>.

**Ding:2021:SSC**

- [DY21] Xiukai Ding and Fan Yang. Spiked separable covariance matrices and principal components. *Annals of Statistics*, 49(2):1113–1138, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Spiked-separable-covariance-matrices-and-principal-components/10.1214/20-AOS1995.full>.

**Deng:2020:BGA**

- [DZ20a] Hang Deng and Cun-Hui Zhang. Beyond Gaussian approximation: Bootstrap for maxima of sums of independent random vectors. *Annals of Statistics*, 48(6):3643–3671, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Beyond-Gaussian-approximation--Bootstrap-for-maxima-of-sums-of/10.1214/20-AOS1946.full>.

**Deng:2020:IRM**

- [DZ20b] Hang Deng and Cun-Hui Zhang. Isotonic regression in multi-dimensional spaces and graphs. *Annals of Statistics*, 48(6):3672–3698, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Isotonic-regression-in-multi-dimensional-spaces-and-graphs/10.1214/20-AOS1947.full>.

**Ding:2020:EIP**

- [DZ20c] Xiukai Ding and Zhou Zhou. Estimation and inference for precision matrices of nonstationary time series. *Annals of Statistics*, 48(4):2455–2477, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Estimation-and-inference-for-precision-matrices-of-nonstationary-time-series/10.1214/19-AOS1894.full>.

**Ding:2023:AAN**

- [DZ23] Xiukai Ding and Zhou Zhou. AutoRegressive approximations to nonstationary time series with inference and applications. *Annals of Statistics*, 51(3):1207–1231, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/AutoRegressive-approximations-to-nonstationary-time-series-with-inference-and-applications/10.1214/23-AOS2288.full>.

**Ekvall:2022:CRN**

- [EB22] Karl Oskar Ekvall and Matteo Bottai. Confidence regions near singular information and boundary points with applications to mixed models. *Annals of Statistics*, 50(3):1806–1832, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Confidence-regions-near-singular-information-and-boundary-points-with-applications/10.1214/22-AOS2177.full>.

**Einmahl:2022:SDS**

- [EFdH<sup>+</sup>22] John H. J. Einmahl, Ana Ferreira, Laurens de Haan, Cláudia Neves, and Chen Zhou. Spatial dependence and space-time trend in extreme events. *Annals of Statistics*, 50(1):30–52, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Spatial-dependence-and-spacetime-trend-in-extreme-events/10.1214/21-AOS2067.full>.

**Efromovich:2021:SMD**

- [Efr21] Sam Efromovich. Sharp minimax distribution estimation for current status censoring with or without missing. *Annals of Statistics*, 49(1):568–589, February 2021. CODEN ASTSC7.

ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Sharp-minimax-distribution-estimation-for-current-status-censoring-with-or/10.1214/20-AOS1970.full>.

**Efromovich:2022:NBD**

- [Efr22] Sam Efromovich. Nonparametric bivariate density estimation for censored lifetimes. *Annals of Statistics*, 50(5):2767–2792, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Nonparametric-bivariate-density-estimation-for-censored-lifetimes/10.1214/22-AOS2209.full>.

**Eaton:2021:CSI**

- [EG21] Morris L. Eaton and Edward I. George. Charles Stein and invariance: Beginning with the Hunt-Stein theorem. *Annals of Statistics*, 49(4):1815–1822, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Charles-Stein-and-invariance-Beginning-with-the-HuntStein-theorem/10.1214/21-AOS2075.full>.

**Einmahl:2023:EVI**

- [EH23] John H. J. Einmahl and Yi He. Extreme value inference for heterogeneous power law data. *Annals of Statistics*, 51(3):1331–1356, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Extreme-value-inference-for-heterogeneous-power-law-data/10.1214/23-AOS2294.full>.

**Ekvall:2020:CML**

- [EJ20] Karl Oskar Ekvall and Galin L. Jones. Consistent maximum likelihood estimation using subsets with applications to multivariate mixed models. *Annals of Statistics*, 48(2):932–952, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480040>.

**ElAlaoui:2020:FLD**

- [EKJ20] Ahmed El Alaoui, Florent Krzakala, and Michael Jordan. Fundamental limits of detection in the spiked Wigner model. *Annals of Statistics*, 48(2):863–885, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480037>.

**Edelmann:2020:DSD**

- [ERV20] Dominic Edelmann, Donald Richards, and Daniel Vogel. The distance standard deviation. *Annals of Statistics*, 48(6):3395–3416, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/The-distance-standard-deviation/10.1214/19-AOS1935.full>.

**Einmahl:2021:ETC**

- [ES21] John H. J. Einmahl and Johan Segers. Empirical tail copulas for functional data. *Annals of Statistics*, 49(5):2672–2696, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Empirical-tail-copulas-for-functional-data/10.1214/21-AOS2050.full>.

**Evans:2020:MSL**

- [Eva20] Robin J. Evans. Model selection and local geometry. *Annals of Statistics*, 48(6):3513–3544, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Model-selection-and-local-geometry/10.1214/19-AOS1940.full>.

**Fan:2022:AMP**

- [Fan22] Zhou Fan. Approximate Message Passing algorithms for rotationally invariant matrices. *Annals of Statistics*, 50(1):197–224, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Approximate-Message-Passing-algorithms-for-rotationally-invariant-matrices/10.1214/21-AOS2101.full>.



**Feng:2021:AML**

- [FGKS21] Oliver Y. Feng, Adityanand Guntuboyina, Arlene K. H. Kim, and Richard J. Samworth. Adaptation in multivariate log-concave density estimation. *Annals of Statistics*, 49(1):129–153, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Adaptation-in-multivariate-log-concave-density-estimation/10.1214/20-AOS1950.full>.

**Fathi:2022:RGA**

- [FGRS22] Max Fathi, Larry Goldstein, Gesine Reinert, and Adrien Saumard. Relaxing the Gaussian assumption in shrinkage and SURE in high dimension. *Annals of Statistics*, 50(5):2737–2766, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Relaxing-the-Gaussian-assumption-in-shrinkage-and-SURE-in-high/10.1214/22-AOS2208.full>.

**Fang:2021:MEI**

- [FGS21a] Billy Fang, Adityanand Guntuboyina, and Bodhisattva Sen. Multivariate extensions of isotonic regression and total variation denoising via entire monotonicity and Hardy–Krause variation. *Annals of Statistics*, 49(2):769–792, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Multivariate-extensions-of-isotonic-regression-and-total-variation-denoising-via/10.1214/20-AOS1977.full>.

**Freise:2021:AWA**

- [FGS21b] Fritjof Freise, Norbert Gaffke, and Rainer Schwabe. The adaptive Wynn algorithm in generalized linear models with univariate response. *Annals of Statistics*, 49(2):702–722, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/The-adaptive-Wynn-algorithm-in-generalized-linear-models-with-univariate/10.1214/20-AOS1974.full>.

**Feng:2022:MST**

- [FJLX22] Long Feng, Tiefeng Jiang, Binghui Liu, and Wei Xiong. Max-sum tests for cross-sectional independence of high-dimensional panel data. *Annals of Statistics*, 50(2):1124–1143, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Max-sum-tests-for-cross-sectional-independence-of-high-dimensional/10.1214/21-AOS2142.full>.

**Fithian:2022:CCF**

- [FL22] William Fithian and Lihua Lei. Conditional calibration for false discovery rate control under dependence. *Annals of Statistics*, 50(6):3091–3118, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/Conditional-calibration-for-false-discovery-rate-control-under-dependence/10.1214/21-AOS2137.full>.

**Fang:2020:SEC**

- [FLS20] Xiao Fang, Jian Li, and David Siegmund. Segmentation and estimation of change-point models: False positive control and confidence regions. *Annals of Statistics*, 48(3):1615–1647, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Segmentation-and-estimation-of-change-point-models--False-positive/10.1214/19-AOS1861.full>.

**Fan:2023:RHD**

- [FLY23] Jianqing Fan, Zhipeng Lou, and Mengxin Yu. Robust high-dimensional tuning free multiple testing. *Annals of Statistics*, 51(5):2093–2115, October 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-5/Robust-high-dimensional-tuning-free-multiple-testing/10.1214/23-AOS2322.full>.

**Fan:2023:BFS**

- [FMM23] Jianqing Fan, Ricardo P. Masini, and Marcelo C. Medeiros. Bridging factor and sparse models. *Annals of Statistics*, 51(4):1692–1717, August 2023. CODEN ASTSC7. ISSN 0090-5364

(print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/Bridging-factor-and-sparse-models/10.1214/23-AOS2304.full>.

**Fang:2020:TSH**

- [FNL20] Ethan X. Fang, Yang Ning, and Runze Li. Test of significance for high-dimensional longitudinal data. *Annals of Statistics*, 48(5): 2622–2645, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Test-of-significance-for-high-dimensional-longitudinal-data/10.1214/19-AOS1900.full>.

**Feng:2022:NME**

- [FNZ22] Huijie Feng, Yang Ning, and Jiwei Zhao. Nonregular and minimax estimation of individualized thresholds in high dimension with binary responses. *Annals of Statistics*, 50(4): 2284–2305, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/Nonregular-and-minimax-estimation-of-individualized-thresholds-in-high-dimension/10.1214/22-AOS2188.full>.

**Fisher:2021:WVZ**

- [FS21] Nicholas I. Fisher and Adrian F. M. Smith. Willem van Zwet’s contributions to the profession. *Annals of Statistics*, 49(5): 2432–2438, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Willem-van-Zwets-contributions-to-the-profession/10.1214/21-AOS2053.full>.

**Foster:2023:OSL**

- [FS23] Dylan J. Foster and Vasilis Syrgkanis. Orthogonal statistical learning. *Annals of Statistics*, 51(3):879–908, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Orthogonal-statistical-learning/10.1214/23-AOS2258.full>.

**Fan:2021:PCL**

- [FSW21] Zhou Fan, Yi Sun, and Zhichao Wang. Principal components in linear mixed models with general bulk. *Annals of Statistics*, 49

(3):1489–1513, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/Principal-components-in-linear-mixed-models-with-general-bulk/10.1214/20-AOS2010.full>.

**Finke:2023:CSM**

- [FT23] Axel Finke and Alexandre H. Thiery. Conditional sequential Monte Carlo in high dimensions. *Annals of Statistics*, 51(2):437–463, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/Conditional-sequential-Monte-Carlo-in-high-dimensions/10.1214/22-AOS2252.full>.

**Fan:2021:SPH**

- [FWZ21] Jianqing Fan, Weichen Wang, and Ziwei Zhu. A shrinkage principle for heavy-tailed data: High-dimensional robust low-rank matrix recovery. *Annals of Statistics*, 49(3):1239–1266, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/A-shrinkage-principle-for-heavy-tailed-data--High-dimensional/10.1214/20-AOS1980.full>.

**Fujiwara:2023:EEL**

- [FY23] Akio Fujiwara and Koichi Yamagata. Efficiency of estimators for locally asymptotically normal quantum statistical models. *Annals of Statistics*, 51(3):1159–1182, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Efficiency-of-estimators-for-locally-asymptotically-normal-quantum-statistical-models/10.1214/23-AOS2285.full>.

**Fissler:2016:HOE**

- [FZ16] Tobias Fissler and Johanna F. Ziegel. Higher order elicibility and Osband’s principle. *Annals of Statistics*, 44(4):1680–1707, August 2016. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <http://projecteuclid.org/euclid.aos/1467894712>. See correction [FZ21].

**Fissler:2021:CNH**

- [FZ21] Tobias Fissler and Johanna F. Ziegel. Correction note: Higher order elicibility and Osband’s principle. *Annals of Statistics*, 49(1):614, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Correction-note-Higher-order-elicibility-and-Osband's-principle/10.1214/20-AOS2014.full>. See [FZ16].

**Fauss:2020:MOS**

- [FZP20] Michael Fauß, Abdelhak M. Zoubir, and H. Vincent Poor. Minimax optimal sequential hypothesis tests for Markov processes. *Annals of Statistics*, 48(5):2599–2621, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Minimax-optimal-sequential-hypothesis-tests-for-Markov-processes/10.1214/19-AOS1899.full>.

**Guo:2022:DDL**

- [GCB22] Zijian Guo, Domagoj 'Cevid, and Peter Bühlmann. Doubly debiased lasso: High-dimensional inference under hidden confounding. *Annals of Statistics*, 50(3):1320–1347, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Doubly-debiased-lasso-High-dimensional-inference-under-hidden-confounding/10.1214/21-AOS2152.full>.

**Gao:2021:ADH**

- [GFLS21] Lan Gao, Yingying Fan, Jinchi Lv, and Qi-Man Shao. Asymptotic distributions of high-dimensional distance correlation inference. *Annals of Statistics*, 49(4):1999–2020, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Asymptotic-distributions-of-high-dimensional-distance-correlation-inference/10.1214/20-AOS2024.full>.

**Ghoshdastidar:2020:TSH**

- [GGCvL20] Debarghya Ghoshdastidar, Maurilio Gutzeit, Alexandra Carpenter, and Ulrike von Luxburg. Two-sample hypothesis testing for

inhomogeneous random graphs. *Annals of Statistics*, 48(4):2208–2229, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Two-sample-hypothesis-testing-for-inhomogeneous-random-graphs/10.1214/19-AOS1884.full>.

**Gerber:2021:OIM**

- [GH21] Mathieu Gerber and Kari Heine. Online inference with multi-modal likelihood functions. *Annals of Statistics*, 49(6):3103–3126, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Online-inference-with-multi-modal-likelihood-functions/10.1214/21-AOS2076.full>.

**Ghosh:2022:BLS**

- [GHO22] Swarnadip Ghosh, Trevor Hastie, and Art B. Owen. Backfitting for large scale crossed random effects regressions. *Annals of Statistics*, 50(1):560–583, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Backfitting-for-large-scale-crossed-random-effects-regressions/10.1214/21-AOS2121.full>.

**Goeman:2021:OCT**

- [GHS21] Jelle J. Goeman, Jesse Hemerik, and Aldo Solari. Only closed testing procedures are admissible for controlling false discovery proportions. *Annals of Statistics*, 49(2):1218–1238, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Only-closed-testing-procedures-are-admissible-for-controlling-false-discovery/10.1214/20-AOS1999.full>.

**Gao:2020:EIP**

- [GHZ20] Chao Gao, Fang Han, and Cun-Hui Zhang. On estimation of isotonic piecewise constant signals. *Annals of Statistics*, 48(2):629–654, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480028>.

**Graczyk:2022:MSS**

- [GIKM22] Piotr Graczyk, Hideyuki Ishi, Bartosz Kołodziejek, and Hélène Massam. Model selection in the space of Gaussian models invariant by symmetry. *Annals of Statistics*, 50(3):1747–1774, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Model-selection-in-the-space-of-Gaussian-models-invariant-by/10.1214/22-AOS2174.full>.

**Ghosh:2021:SSC**

- [GKM21] Satyajit Ghosh, Kshitij Khare, and George Michailidis. Strong selection consistency of Bayesian vector autoregressive models based on a pseudo-likelihood approach. *Annals of Statistics*, 49(3):1267–1299, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/Strong-selection-consistency-of-Bayesian-vector-autoregressive-models-based-on/10.1214/20-AOS1992.full>.

**Goto:2022:ICS**

- [GKV<sup>+</sup>22] Yuichi Goto, Tobias Kley, Ria Van Hecke, Stanislav Volgushev, Holger Dette, and Marc Hallin. The integrated copula spectrum. *Annals of Statistics*, 50(6):3563–3591, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/The-integrated-copula-spectrum/10.1214/22-AOS2240.full>.

**Guntuboyina:2020:ARB**

- [GLCS20] Adityanand Guntuboyina, Donovan Lieu, Sabyasachi Chatterjee, and Bodhisattva Sen. Adaptive risk bounds in univariate total variation denoising and trend filtering. *Annals of Statistics*, 48(1):205–229, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930132>.

**Gassiat:2022:DUN**

- [GLL22] Élisabeth Gassiat, Sylvain Le Corff, and Luc Lehéricy. Deconvolution with unknown noise distribution is possible for multivariate signals. *Annals of Statistics*, 50(1):303–323, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966

(electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Deconvolution-with-unknown-noise-distribution-is-possible-for-multivariate-signals/10.1214/21-AOS2106.full>.

**Goes:2020:RSC**

- [GLN20] John Goes, Gilad Lerman, and Boaz Nadler. Robust sparse covariance estimation by thresholding Tyler’s  $M$ -estimator. *Annals of Statistics*, 48(1):86–110, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930127>.

**Giordano:2020:GVS**

- [GLP20] Francesco Giordano, Soumendra Nath Lahiri, and Maria Lucia Parrella. GRID: A variable selection and structure discovery method for high dimensional nonparametric regression. *Annals of Statistics*, 48(3):1848–1874, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/GRID--A-variable-selection-and-structure-discovery-method-for/10.1214/19-AOS1846.full>.

**Ghosal:2020:JEP**

- [GM20] Promit Ghosal and Sumit Mukherjee. Joint estimation of parameters in Ising model. *Annals of Statistics*, 48(2):785–810, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480034>.

**Gao:2022:TEC**

- [GM22] Chao Gao and Zongming Ma. Testing equivalence of clustering. *Annals of Statistics*, 50(1):407–429, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Testing-equivalence-of-clustering/10.1214/21-AOS2113.full>.

**Ghorbani:2021:LTL**

- [GMMM21] Behrooz Ghorbani, Song Mei, Theodor Misiakiewicz, and Andrea Montanari. Linearized two-layers neural networks in high dimension. *Annals of Statistics*, 49(2):1029–1054, April 2021.



CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Linearized-two-layers-neural-networks-in-high-dimension/10.1214/20-AOS1990.full>.

**Gnecco:2021:CDH**

- [GMPE21] Nicola Gnecco, Nicolai Meinshausen, Jonas Peters, and Sebastian Engelke. Causal discovery in heavy-tailed models. *Annals of Statistics*, 49(3):1755–1778, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/Causal-discovery-in-heavy-tailed-models/10.1214/20-AOS2021.full>.

**Gregory:2021:SIS**

- [GMW21] Karl Gregory, Enno Mammen, and Martin Wahl. Statistical inference in sparse high-dimensional additive models. *Annals of Statistics*, 49(3):1514–1536, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/Statistical-inference-in-sparse-high-dimensional-additive-models/10.1214/20-AOS2011.full>.

**Goodman:2022:AAS**

- [Goo22] Jesse Goodman. Asymptotic accuracy of the saddlepoint approximation for maximum likelihood estimation. *Annals of Statistics*, 50(4):2021–2046, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/Asymptotic-accuracy-of-the-saddlepoint-approximation-for-maximum-likelihood-estimation/10.1214/22-AOS2169.full>.

**Giordano:2022:NBI**

- [GR22] Matteo Giordano and Kolyan Ray. Nonparametric Bayesian inference for reversible multidimensional diffusions. *Annals of Statistics*, 50(5):2872–2898, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Nonparametric-Bayesian-inference-for-reversible-multidimensional-diffusions/10.1214/22-AOS2213.full>.

**Ghosal:2022:MRQ**

- [GS22] Promit Ghosal and Bodhisattva Sen. Multivariate ranks and quantiles using optimal transport: Consistency, rates and non-parametric testing. *Annals of Statistics*, 50(2):1012–1037, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Multivariate-ranks-and-quantiles-using-optimal-transport--Consistency-rates/10.1214/21-AOS2136.full>.

**Gao:2022:RCT**

- [GSS22] Lan Gao, Qi-Man Shao, and Jiasheng Shi. Refined Cramér-type moderate deviation theorems for general self-normalized sums with applications to dependent random variables and winsorized mean. *Annals of Statistics*, 50(2):673–697, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Refined-Cram%C3%A9r-type-moderate-deviation-theorems-for-general-self-normalized/10.1214/21-AOS2122.full>.

**Girard:2021:ECE**

- [GSUC21] Stéphane Girard, Gilles Stupfler, and Antoine Usseglio-Carleve. Extreme conditional expectile estimation in heavy-tailed heteroscedastic regression models. *Annals of Statistics*, 49(6):3358–3382, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Extreme-conditional-expectile-estimation-in-heavy-tailed-heteroscedastic-regression-models/10.1214/21-AOS2087.full>.

**Gao:2020:GFB**

- [GvdVZ20] Chao Gao, Aad W. van der Vaart, and Harrison H. Zhou. A general framework for Bayes structured linear models. *Annals of Statistics*, 48(5):2848–2878, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/A-general-framework-for-Bayes-structured-linear-models/10.1214/19-AOS1909.full>.

**Gao:2022:TST**

- [GW22] Fengnan Gao and Tengyao Wang. Two-sample testing of high-dimensional linear regression coefficients via complementary sketching. *Annals of Statistics*, 50(5):2950–2972, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Two-sample-testing-of-high-dimensional-linear-regression-coefficients-via/10.1214/22-AOS2216.full>.

**Gu:2020:PIR**

- [GX20] Yuqi Gu and Gongjun Xu. Partial identifiability of restricted latent class models. *Annals of Statistics*, 48(4):2082–2107, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Partial-identifiability-of-restricted-latent-class-models/10.1214/19-AOS1878.full>.

**Gamarnik:2022:SHD**

- [GZ22a] David Gamarnik and Ilias Zadik. Sparse high-dimensional linear regression. estimating squared error and a phase transition. *Annals of Statistics*, 50(2):880–903, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Sparse-high-dimensional-linear-regression-Estimating-squared-error-and-a/10.1214/21-AOS2130.full>.

**Gao:2022:IAD**

- [GZ22b] Chao Gao and Anderson Y. Zhang. Iterative algorithm for discrete structure recovery. *Annals of Statistics*, 50(2):1066–1094, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Iterative-algorithm-for-discrete-structure-recovery/10.1214/21-AOS2140.full>.

**Han:2021:SSG**

- [Han21] Qiyang Han. Set structured global empirical risk minimizers are rate optimal in general dimensions. *Annals of Statistics*, 49(5):2642–2671, October 2021. CODEN ASTSC7. ISSN 0090-5364

(print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Set-structured-global-empirical-risk-minimizers-are-rate-optimal-in/10.1214/21-AOS2049.full>.

**Han:2023:NLI**

- [Han23] Qiyang Han. Noisy linear inverse problems under convex constraints: Exact risk asymptotics in high dimensions. *Annals of Statistics*, 51(4):1611–1638, August 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/Noisy-linear-inverse-problems-under-convex-constraints--Exact-risk/10.1214/23-AOS2301.full>.

**Heng:2020:CSM**

- [HBDD20] Jeremy Heng, Adrian N. Bishop, George Deligiannidis, and Arnaud Doucet. Controlled sequential Monte Carlo. *Annals of Statistics*, 48(5):2904–2929, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Controlled-sequential-Monte-Carlo/10.1214/19-AOS1914.full>.

**Huang:2022:COS**

- [HCCI22] Hsueh-Han Huang, Ngai Hang Chan, Kun Chen, and Ching-Kang Ing. Consistent order selection for ARFIMA processes. *Annals of Statistics*, 50(3):1297–1319, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Consistent-order-selection-for-ARFIMA-processes/10.1214/21-AOS2149.full>.

**Hallin:2021:DQF**

- [HdBCAM21] Marc Hallin, Eustasio del Barrio, Juan Cuesta-Albertos, and Carlos Matrán. Distribution and quantile functions, ranks and signs in dimension  $d$ : a measure transportation approach. *Annals of Statistics*, 49(2):1139–1165, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Distribution-and-quantile-functions-ranks-and-signs-in-dimension-d/10.1214/20-AOS1996.full>.

**He:2020:ICV**

- [HHPS20] Yi He, Yanxi Hou, Liang Peng, and Haipeng Shen. Inference for conditional value-at-risk of a predictive regression. *Annals of Statistics*, 48(6):3442–3464, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Inference-for-conditional-value-at-risk-of-a-predictive-regression/10.1214/19-AOS1937.full>.

**Hidalgo:2021:BLM**

- [Hid21] Javier Hidalgo. Bootstrap long memory processes in the frequency domain. *Annals of Statistics*, 49(3):1407–1435, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/Bootstrap-long-memory-processes-in-the-frequency-domain/10.1214/20-AOS2006.full>.

**Huang:2020:RAK**

- [HJ20] Dongming Huang and Lucas Janson. Relaxing the assumptions of knockoffs by conditioning. *Annals of Statistics*, 48(5):3021–3042, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Relaxing-the-assumptions-of-knockoffs-by-conditioning/10.1214/19-AOS1920.full>.

**Han:2020:ORE**

- [HJWW20] Yanjun Han, Jiantao Jiao, Tsachy Weissman, and Yihong Wu. Optimal rates of entropy estimation over Lipschitz balls. *Annals of Statistics*, 48(6):3228–3250, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Optimal-rates-of-entropy-estimation-over-Lipschitz-balls/10.1214/19-AOS1927.full>.

**Hanneke:2022:NFL**

- [HK22] Steve Hanneke and Samory Kpotufe. A no-free-lunch theorem for multitask learning. *Annals of Statistics*, 50(6):3119–3143, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/A-no-free-lunch-theorem-for-multitask-learning/10.1214/22-AOS1927.full>.

free-lunch-theorem-for-multitask-learning/10.1214/22-AOS2189.full.

**Hanneke:2021:UBC**

- [HKS<sub>W</sub>21] Steve Hanneke, Aryeh Kontorovich, Sivan Sabato, and Roi Weiss. Universal Bayes consistency in metric spaces. *Annals of Statistics*, 49(4):2129–2150, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Universal-Bayes-consistency-in-metric-spaces/10.1214/20-AOS2029.full>.

**Horvath:2021:MCP**

- [HK<sub>W</sub>21] Lajos Horváth, Piotr Kokoszka, and Shixuan Wang. Monitoring for a change point in a sequence of distributions. *Annals of Statistics*, 49(4):2271–2291, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Monitoring-for-a-change-point-in-a-sequence-of-distributions/10.1214/20-AOS2036.full>.

**Hong:2020:NB**

- [HL20] Han Hong and Jessie Li. The numerical bootstrap. *Annals of Statistics*, 48(1):397–412, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930140>.

**Huang:2023:EEM**

- [HLM23] Tzu-Jung Huang, Alex Luedtke, and Ian W. McKeague. Efficient estimation of the maximal association between multiple predictors and a survival outcome. *Annals of Statistics*, 51(5):1965–1988, October 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-5/Efficient-estimation-of-the-maximal-association-between-multiple-predictors-and/10.1214/23-AOS2313.full>.

**He:2022:NFD**

- [HLS22] Yuanzhen He, C. Devon Lin, and Fasheng Sun. A new and flexible design construction for orthogonal arrays for modern applications. *Annals of Statistics*, 50(3):1473–1489, June 2022.

CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/A-new-and-flexible-design-construction-for-orthogonal-arrays-for/10.1214/21-AOS2159.full>.

**Hazimeh:2023:GVS**

- [HMR23] Hussein Hazimeh, Rahul Mazumder, and Peter Radchenko. Grouped variable selection with discrete optimization: Computational and statistical perspectives. *Annals of Statistics*, 51(1):1–32, February 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-1/Grouped-variable-selection-with-discrete-optimization-Computational-and-statistical/10.1214/21-AOS2155.full>.

**Hastie:2022:SHD**

- [HMRT22] Trevor Hastie, Andrea Montanari, Saharon Rosset, and Ryan J. Tibshirani. Surprises in high-dimensional ridgeless least squares interpolation. *Annals of Statistics*, 50(2):949–986, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Surprises-in-high-dimensional-ridgeless-least-squares-interpolation/10.1214/21-AOS2133.full>.

**Hopkins:2020:MES**

- [Hop20] Samuel B. Hopkins. Mean estimation with sub-Gaussian rates in polynomial time. *Annals of Statistics*, 48(2):1193–1213, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480051>.

**He:2022:SEI**

- [HPTZ22] Xuming He, Xiaou Pan, Kean Ming Tan, and Wen-Xin Zhou. Scalable estimation and inference for censored quantile regression process. *Annals of Statistics*, 50(5):2899–2924, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Scalable-estimation-and-inference-for-censored-quantile-regression-process/10.1214/22-AOS2214.full>.

**Hutter:2021:MES**

- [HR21] Jan-Christian Hütter and Philippe Rigollet. Minimax estimation of smooth optimal transport maps. *Annals of Statistics*, 49(2):1166–1194, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Minimax-estimation-of-smooth-optimal-transport-maps/10.1214/20-AOS1997.full>.

**Howard:2021:TUN**

- [HRMS21] Steven R. Howard, Aaditya Ramdas, Jon McAuliffe, and Jasjeet Sekhon. Time-uniform, nonparametric, nonasymptotic confidence sequences. *Annals of Statistics*, 49(2):1055–1080, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Time-uniform-nonparametric-nonasymptotic-confidence-sequences/10.1214/20-AOS1991.full>.

**Hamm:2021:ALR**

- [HS21a] Thomas Hamm and Ingo Steinwart. Adaptive learning rates for support vector machines working on data with low intrinsic dimension. *Annals of Statistics*, 49(6):3153–3180, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Adaptive-learning-rates-for-support-vector-machines-working-on-data/10.1214/21-AOS2078.full>.

**Huang:2021:APP**

- [HS21b] Jianhua Z. Huang and Ya Su. Asymptotic properties of penalized spline estimators in concave extended linear models: Rates of convergence. *Annals of Statistics*, 49(6):3383–3407, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Asymptotic-properties-of-penalized-spline-estimators-in-concave-extended-linear/10.1214/21-AOS2088.full>.

**Huang:2022:LBC**

- [HS22] Yijian Huang and Martin G. Sanda. Linear biomarker combination for constrained classification. *Annals of Statistics*, 50(5):2793–2815, October 2022. CODEN ASTSC7. ISSN 0090-5364



(print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Linear-biomarker-combination-for-constrained-classification/10.1214/22-AOS2210.full>.

**Han:2023:URR**

- [HS23] Qiyang Han and Yandi Shen. Universality of regularized regression estimators in high dimensions. *Annals of Statistics*, 51(4):1799–1823, August 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/Universality-of-regularized-regression-estimators-in-high-dimensions/10.1214/23-AOS2309.full>.

**Han:2022:HDA**

- [HSS22] Qiyang Han, Bodhisattva Sen, and Yandi Shen. High-dimensional asymptotics of likelihood ratio tests in the Gaussian sequence model under convex constraints. *Annals of Statistics*, 50(1):376–406, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/High-dimensional-asymptotics-of-likelihood-ratio-tests-in-the-Gaussian/10.1214/21-AOS2111.full>.

**Hoffmann:2023:DDE**

- [HT23] Marc Hoffmann and Mathias Trabs. Dispersal density estimation across scales. *Annals of Statistics*, 51(3):1258–1281, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Dispersal-density-estimation-across-scales/10.1214/23-AOS2290.full>.

**Han:2020:LUS**

- [HTYZ20] Lei Han, Kean Ming Tan, Ting Yang, and Tong Zhang. Local uncertainty sampling for large-scale multiclass logistic regression. *Annals of Statistics*, 48(3):1770–1788, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Local-uncertainty-sampling-for-large-scale-multiclass-logistic-regression/10.1214/19-AOS1867.full>.

**Huang:2020:ARP**

- [Hua20] Hanwen Huang. Asymptotic risk and phase transition of  $\ell_1$ -penalized robust estimator. *Annals of Statistics*, 48(5):3090–3111, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Asymptotic-risk-and-phase-transition-of-l1-penalized-robust-estimator/10.1214/19-AOS1923.full>.

**Han:2020:THD**

- [HW20] Yuefeng Han and Wei Biao Wu. Test for high dimensional covariance matrices. *Annals of Statistics*, 48(6):3565–3588, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Test-for-high-dimensional-covariance-matrices/10.1214/20-AOS1943.full>.

**Han:2021:CSD**

- [HW21a] Qiyang Han and Jon A. Wellner. Complex sampling designs: Uniform limit theorems and applications. *Annals of Statistics*, 49(1):459–485, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Complex-sampling-designs-Uniform-limit-theorems-and-applications/10.1214/20-AOS1964.full>.

**Hirshberg:2021:AML**

- [HW21b] David A. Hirshberg and Stefan Wager. Augmented minimax linear estimation. *Annals of Statistics*, 49(6):3206–3227, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Augmented-minimax-linear-estimation/10.1214/21-AOS2080.full>.

**Hu:2023:PEP**

- [HW23] Yuchen Hu and Stefan Wager. Off-policy evaluation in partially observed Markov decision processes under sequential ignorability. *Annals of Statistics*, 51(4):1561–1585, August 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/Off->

policy-evaluation-in-partially-observed-Markov-decision-  
processes-under/10.1214/23-AOS2287.full.

**Han:2022:OSC**

- [HWZ22] Rungang Han, Rebecca Willett, and Anru R. Zhang. An optimal statistical and computational framework for generalized tensor estimation. *Annals of Statistics*, 50(1):1–29, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/An-optimal-statistical-and-computational-framework-for-generalized-tensor-estimation/10.1214/21-AOS2061.full>.

**He:2021:AIS**

- [HXWP21] Yinqiu He, Gongjun Xu, Chong Wu, and Wei Pan. Asymptotically independent  $U$ -statistics in high-dimensional testing. *Annals of Statistics*, 49(1):154–181, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Asymptotically-independent-U-statistics-in-high-dimensional-testing/10.1214/20-AOS1951.full>.

**Heiny:2022:LDE**

- [HY22] Johannes Heiny and Jianfeng Yao. Limiting distributions for eigenvalues of sample correlation matrices from heavy-tailed populations. *Annals of Statistics*, 50(6):3249–3280, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/Limiting-distributions-for-eigenvalues-of-sample-correlation-matrices-from-heavy/10.1214/22-AOS2226.full>.

**Han:2023:URI**

- [HYF23] Xiao Han, Qing Yang, and Yingying Fan. Universal rank inference via residual subsampling with application to large networks. *Annals of Statistics*, 51(3):1109–1133, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Universal-rank-inference-via-residual-subsampling-with-application-to-large/10.1214/23-AOS2282.full>.

**Han:2020:LDT**

- [HZ20] Qiyang Han and Cun-Hui Zhang. Limit distribution theory for block estimators in multiple isotonic regression. *Annals of Statistics*, 48(6):3251–3282, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Limit-distribution-theory-for-block-estimators-in-multiple-isotonic-regression/10.1214/19-AOS1928.full>.

**Imbens:2021:CB**

- [IM21] Guido Imbens and Konrad Menzel. A causal bootstrap. *Annals of Statistics*, 49(3):1460–1488, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/A-causal-bootstrap/10.1214/20-AOS2009.full>.

**Ing:2020:MSH**

- [Ing20] Ching-Kang Ing. Model selection for high-dimensional linear regression with dependent observations. *Annals of Statistics*, 48(4):1959–1980, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Model-selection-for-high-dimensional-linear-regression-with-dependent-observations/10.1214/19-AOS1872.full>.

**Jin:2021:OAS**

- [JKL21] Jiashun Jin, Zheng Tracy Ke, and Shengming Luo. Optimal adaptivity of signed-polygon statistics for network testing. *Annals of Statistics*, 49(6):3408–3433, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Optimal-adaptivity-of-signed-polygon-statistics-for-network-testing/10.1214/21-AOS2089.full>.

**Jacod:2021:VC**

- [JLL21] Jean Jacod, Jia Li, and Zhipeng Liao. Volatility coupling. *Annals of Statistics*, 49(4):1982–1998, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Volatility-coupling/10.1214/21-AOS2009.full>.

of-statistics/volume-49/issue-4/Volatility-coupling/  
10.1214/20-AOS2023.full.

**Jing:2021:CDM**

- [JLLX21] Bing-Yi Jing, Ting Li, Zhongyuan Lyu, and Dong Xia. Community detection on mixture multilayer networks via regularized tensor decomposition. *Annals of Statistics*, 49(6):3181–3205, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Community-detection-on-mixture-multilayer-networks-via-regularized-tensor-decomposition/10.1214/21-AOS2079.full>.

**Javanmard:2020:ATL**

- [JMM20] Adel Javanmard, Marco Mondelli, and Andrea Montanari. Analysis of a two-layer neural network via displacement convexity. *Annals of Statistics*, 48(6):3619–3642, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Analysis-of-a-two-layer-neural-network-via-displacement-convexity/10.1214/20-AOS1945.full>.

**Johnstone:2020:THD**

- [JO20] Iain M. Johnstone and Alexei Onatski. Testing in high-dimensional spiked models. *Annals of Statistics*, 48(3):1231–1254, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Testing-in-high-dimensional-spiked-models/10.1214/18-AOS1697.full>.

**Jeon:2020:ARH**

- [JP20] Jeong Min Jeon and Byeong U. Park. Additive regression with Hilbertian responses. *Annals of Statistics*, 48(5):2671–2697, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Additive-regression-with-Hilbertian-responses/10.1214/19-AOS1902.full>.

**Jagadeesan:2020:DET**

- [JPV20] Ravi Jagadeesan, Natesh S. Pillai, and Alexander Volfovsky. Designs for estimating the treatment effect in networks with interference. *Annals of Statistics*, 48(2):679–712, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480030>.

**Jeon:2021:ARN**

- [JPV21] Jeong Min Jeon, Byeong U. Park, and Ingrid Van Keilegom. Additive regression for non-Euclidean responses and predictors. *Annals of Statistics*, 49(5):2611–2641, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Additive-regression-for-non-Euclidean-responses-and-predictors/10.1214/21-AOS2048.full>.

**Jeon:2022:NRL**

- [JPV22] Jeong Min Jeon, Byeong U. Park, and Ingrid Van Keilegom. Nonparametric regression on Lie groups with measurement errors. *Annals of Statistics*, 50(5):2973–3008, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Nonparametric-regression-on-Lie-groups-with-measurement-errors/10.1214/22-AOS2218.full>.

**Javanmard:2022:PSA**

- [JS22] Adel Javanmard and Mahdi Soltanolkotabi. Precise statistical analysis of classification accuracies for adversarial training. *Annals of Statistics*, 50(4):2127–2156, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/Precise-statistical-analysis-of-classification-accuracies-for-adversarial-training/10.1214/22-AOS2180.full>.

**Jiao:2023:DNR**

- [JSLH23] Yuling Jiao, Guohao Shen, Yuanyuan Lin, and Jian Huang. Deep nonparametric regression on approximate manifolds: Nonasymptotic error bounds with polynomial prefactors. *Annals of Statistics*, 51(2):691–716, April 2023. CODEN ASTSC7. ISSN

0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/Deep-nonparametric-regression-on-approximate-manifolds--Nonasymptotic-error-bounds/10.1214/23-AOS2266.full>.

**Jiang:2021:VSC**

- [JT21] Sheng Jiang and Surya T. Tokdar. Variable selection consistency of Gaussian process regression. *Annals of Statistics*, 49(5): 2491–2505, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Variable-selection-consistency-of-Gaussian-process-regression/10.1214/20-AOS2043.full>.

**Jiang:2023:HDP**

- [JZLM23] Fei Jiang, Yeqing Zhou, Jianxuan Liu, and Yanyuan Ma. On high-dimensional Poisson models with measurement error: Hypothesis testing for nonlinear nonconvex optimization. *Annals of Statistics*, 51(1):233–259, February 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-1/On-high-dimensional-Poisson-models-with-measurement-error--Hypothesis/10.1214/22-AOS2248.full>.

**Kirchner:2022:NSC**

- [KB22] Kristin Kirchner and David Bolin. Necessary and sufficient conditions for asymptotically optimal linear prediction of random fields on compact metric spaces. *Annals of Statistics*, 50(2): 1038–1065, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Necessary-and-sufficient-conditions-for-asymptotically-optimal-linear-prediction-of/10.1214/21-AOS2138.full>.

**Kuchibhotla:2020:VPS**

- [KBB<sup>+</sup>20] Arun K. Kuchibhotla, Lawrence D. Brown, Andreas Buja, Junhui Cai, Edward I. George, and Linda H. Zhao. Valid post-selection inference in model-free linear regression. *Annals of Statistics*, 48(5):2953–2981, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals->

of-statistics/volume-48/issue-5/Valid-post-selection-inference-in-model-free-linear-regression/10.1214/19-AOS1917.full.

**Kennedy:2020:SIC**

- [KBG20] Edward H. Kennedy, Sivaraman Balakrishnan, and Max G'Sell. Sharp instruments for classifying compliers and generalizing causal effects. *Annals of Statistics*, 48(4):2008–2030, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Sharp-instruments-for-classifying-compliers-and-generalizing-causal-effects/10.1214/19-AOS1874.full>.

**Kim:2020:RMN**

- [KBW20] Ilmun Kim, Sivaraman Balakrishnan, and Larry Wasserman. Robust multivariate nonparametric tests via projection averaging. *Annals of Statistics*, 48(6):3417–3441, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Robust-multivariate-nonparametric-tests-via-projection-averaging/10.1214/19-AOS1936.full>.

**Kim:2022:MOP**

- [KBW22] Ilmun Kim, Sivaraman Balakrishnan, and Larry Wasserman. Minimax optimality of permutation tests. *Annals of Statistics*, 50(1):225–251, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Minimax-optimality-of-permutation-tests/10.1214/21-AOS2103.full>.

**Komarova:2023:TNS**

- [KH23] Tatiana Komarova and Javier Hidalgo. Testing nonparametric shape restrictions. *Annals of Statistics*, 51(6):2299–2317, December 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-6/Testing-nonparametric-shape-restrictions/10.1214/23-AOS2311.full>.



**Koskela:2020:AGI**

- [KJJS20] Jere Koskela, Paul A. Jenkins, Adam M. Johansen, and Dario Spanò. Asymptotic genealogies of interacting particle systems with an application to sequential Monte Carlo. *Annals of Statistics*, 48(1):560–583, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930147>. See erratum [KJJS22].

**Koskela:2022:EAG**

- [KJJS22] Jere Koskela, Paul A. Jenkins, Adam M. Johansen, and Dario Spanò. Erratum: Asymptotic genealogies of interacting particle systems with an application to sequential Monte Carlo. *Annals of Statistics*, 50(4):2467–2468, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/Erratum--Asymptotic-genealogies-of-interacting-particle-systems-with-an/10.1214/21-AOS2135.full>. See [KJJS20].

**Kolassa:2020:VFE**

- [KK20] John E. Kolassa and Todd A. Kuffner. On the validity of the formal Edgeworth expansion for posterior densities. *Annals of Statistics*, 48(4):1940–1958, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/On-the-validity-of-the-formal-Edgeworth-expansion-for-posterior/10.1214/19-AOS1871.full>.

**Klochkov:2021:RKM**

- [KKZ21] Yegor Klochkov, Alexey Kroshnin, and Nikita Zhivotovskiy. Robust k -means clustering for distributions with two moments. *Annals of Statistics*, 49(4):2206–2230, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Robust-k-means-clustering-for-distributions-with-two-moments/10.1214/20-AOS2033.full>.

**Kneip:2020:ORP**

- [KL20] Alois Kneip and Dominik Liebl. On the optimal reconstruction of partially observed functional data. *Annals of Statistics*, 48

(3):1692–1717, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/On-the-optimal-reconstruction-of-partially-observed-functional-data/10.1214/19-AOS1864.full>.

**Kohler:2021:RCF**

- [KL21] Michael Kohler and Sophie Langer. On the rate of convergence of fully connected deep neural network regression estimates. *Annals of Statistics*, 49(4):2231–2249, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/On-the-rate-of-convergence-of-fully-connected-deep-neural/10.1214/20-AOS2034.full>.

**Kleijn:2021:FVB**

- [Kle21] B. J. K. Kleijn. Frequentist validity of Bayesian limits. *Annals of Statistics*, 49(1):182–202, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Frequentist-validity-of-Bayesian-limits/10.1214/20-AOS1952.full>.

**Koltchinskii:2020:EEL**

- [KLN20] Vladimir Koltchinskii, Matthias Löffler, and Richard Nickl. Efficient estimation of linear functionals of principal components. *Annals of Statistics*, 48(1):464–490, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930143>.

**Kolaczyk:2020:AUN**

- [KLR<sup>+</sup>20] Eric D. Kolaczyk, Lizhen Lin, Steven Rosenberg, Jackson Walters, and Jie Xu. Averages of unlabeled networks: Geometric characterization and asymptotic behavior. *Annals of Statistics*, 48(1):514–538, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930145>.

**Kim:2020:PDR**

- [KLYL20] Kyongwon Kim, Bing Li, Zhou Yu, and Lexin Li. On post dimension reduction statistical inference. *Annals of Statistics*, 48(3):1567–1592, June 2020. CODEN ASTSC7. ISSN 0090-5364

(print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/On-post-dimension-reduction-statistical-inference/10.1214/19-AOS1859.full>.

**Kpotufe:2021:MSB**

- [KM21a] Samory Kpotufe and Guillaume Martinet. Marginal singularity and the benefits of labels in covariate-shift. *Annals of Statistics*, 49(6):3299–3323, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Marginal-singularity-and-the-benefits-of-labels-in-covariate-shift/10.1214/21-AOS2084.full>.

**Kwon:2021:ENC**

- [KM21b] Caleb Kwon and Eric Mbakop. Estimation of the number of components of nonparametric multivariate finite mixture models. *Annals of Statistics*, 49(4):2178–2205, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Estimation-of-the-number-of-components-of-nonparametric-multivariate-finite/10.1214/20-AOS2032.full>.

**Konig:2020:MMS**

- [KMW20] Claudia König, Axel Munk, and Frank Werner. Multidimensional multiscale scanning in exponential families: Limit theory and statistical consequences. *Annals of Statistics*, 48(2):655–678, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480029>.

**Kulaitis:2021:WRS**

- [KMW21] Gytis Kulaitis, Axel Munk, and Frank Werner. What is resolution? A statistical minimax testing perspective on super-resolution microscopy. *Annals of Statistics*, 49(4):2292–2312, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/What-is-resolution-A-statistical-minimax-testing-perspective-on-superresolution/10.1214/20-AOS2037.full>.

**Kim:2022:LPT**

- [KNBW22] Ilmun Kim, Matey Neykov, Sivaraman Balakrishnan, and Larry Wasserman. Local permutation tests for conditional independence. *Annals of Statistics*, 50(6):3388–3414, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/Local-permutation-tests-for-conditional-independence/10.1214/22-AOS2233.full>.

**Koltchinskii:2022:ESF**

- [Kol22] Vladimir Koltchinskii. Estimation of smooth functionals in high-dimensional models: Bootstrap chains and Gaussian approximation. *Annals of Statistics*, 50(4):2386–2415, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/Estimation-of-smooth-functionals-in-high-dimensional-models--Bootstrap/10.1214/22-AOS2197.full>.

**Kuchibhotla:2022:LSE**

- [KP22] Arun K. Kuchibhotla and Rohit K. Patra. On least squares estimation under heteroscedastic and heavy-tailed errors. *Annals of Statistics*, 50(1):277–302, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/On-least-squares-estimation-under-heteroscedastic-and-heavy-tailed-errors/10.1214/21-AOS2105.full>.

**Konen:2023:SQH**

- [KP23] Dimitri Konen and Davy Paindaveine. Spatial quantiles on the hypersphere. *Annals of Statistics*, 51(5):2221–2245, October 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-5/Spatial-quantiles-on-the-hypersphere/10.1214/23-AOS2332.full>.

**Klopp:2023:ATD**

- [KPST23] Olga Klopp, Maxim Panov, Suzanne Sigalla, and Alexandre B. Tsybakov. Assigning topics to documents by successive projections. *Annals of Statistics*, 51(5):1989–2014, October 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-5/Assigning-topics-to-documents-by-successive-projections/10.1214/23-AOS2332.full>.

of-statistics/volume-51/issue-5/Assigning-topics-to-documents-by-successive-projections/10.1214/23-AOS2316.full.

**Katsevich:2020:SHP**

- [KR20] Eugene Katsevich and Aaditya Ramdas. Simultaneous high-probability bounds on the false discovery proportion in structured, regression and online settings. *Annals of Statistics*, 48(6):3465–3487, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Simultaneous-high-probability-bounds-on-the-false-discovery-proportion-in/10.1214/19-AOS1938.full>.

**Kim:2021:CAP**

- [KRSW21] Ilmun Kim, Aaditya Ramdas, Aarti Singh, and Larry Wasserman. Classification accuracy as a proxy for two-sample testing. *Annals of Statistics*, 49(1):411–434, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Classification-accuracy-as-a-proxy-for-two-sample-testing/10.1214/20-AOS1962.full>.

**Karmakar:2020:AEC**

- [KS20] Bikram Karmakar and Dylan S. Small. Assessment of the extent of corroboration of an elaborate theory of a causal hypothesis using partial conjunctions of evidence factors. *Annals of Statistics*, 48(6):3283–3311, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Assessment-of-the-extent-of-corroboration-of-an-elaborate-theory/10.1214/19-AOS1929.full>.

**Kutyniok:2020:DSN**

- [Kut20] Gitta Kutyniok. Discussion of: “Nonparametric regression using deep neural networks with ReLU activation function”. *Annals of Statistics*, 48(4):1902–1905, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Discussion-of--Nonparametric-regression-using-deep-neural-networks-with/10.1214/19-AOS1911.full>. See [SH20a].

**Kou:2022:LSI**

- [KW22] Jiyao Kou and Guenther Walther. Large-scale inference with block structure. *Annals of Statistics*, 50(3):1541–1572, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Large-scale-inference-with-block-structure/10.1214/21-AOS2162.full>.

**Kong:2021:AED**

- [KYZ21] Xiangshun Kong, Mingao Yuan, and Wei Zheng. Approximate and exact designs for total effects. *Annals of Statistics*, 49(3):1594–1625, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/Approximate-and-exact-designs-for-total-effects/10.1214/20-AOS2015.full>.

**Koltchinskii:2021:ESF**

- [KZ21] Vladimir Koltchinskii and Mayya Zhilova. Estimation of smooth functionals in normal models: Bias reduction and asymptotic efficiency. *Annals of Statistics*, 49(5):2577–2610, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Estimation-of-smooth-functionals-in-normal-models--Bias-reduction/10.1214/20-AOS2047.full>.

**Lahiri:2021:NSC**

- [Lah21] Soumendra N. Lahiri. Necessary and sufficient conditions for variable selection consistency of the LASSO in high dimensions. *Annals of Statistics*, 49(2):820–844, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Necessary-and-sufficient-conditions-for-variable-selection-consistency-of-the/10.1214/20-AOS1979.full>.

**Li:2020:AGH**

- [LAP<sup>+</sup>20] Haoran Li, Alexander Aue, Debashis Paul, Jie Peng, and Pei Wang. An adaptable generalization of Hotelling’s. *Annals of Statistics*, 48(3):1815–1847, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (elec-

tronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/An-adaptable-generalization-of-Hotellings-T2-test-in-high-dimension/10.1214/19-AOS1869>. full.

**Luedtke:2021:CNS**

- [LBvdL21] Alex Luedtke, Aurélien Bibaut, and Mark van der Laan. Correction note: “Statistical inference for the mean outcome under a possibly nonunique optimal treatment rule”. *Annals of Statistics*, 49(4):2429–2430, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Correction-note--Statistical-inference-for-the-mean-outcome-under/10.1214/20-AOS2031>. full.

**Li:2023:RLD**

- [LBY23] Mengchu Li, Thomas B. Berrett, and Yi Yu. On robustness and local differential privacy. *Annals of Statistics*, 51(2):717–737, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/On-robustness-and-local-differential-privacy/10.1214/23-AOS2267>. full.

**Lee:2021:BNH**

- [LCI21] Donald K. K. Lee, Ningyuan Chen, and Hemant Ishwaran. Boosted nonparametric hazards with time-dependent covariates. *Annals of Statistics*, 49(4):2101–2128, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Boosted-nonparametric-hazards-with-time-dependent-covariates/10.1214/20-AOS2028>. full.

**Lei:2021:NRU**

- [Lei21] Jing Lei. Network representation using graph root distributions. *Annals of Statistics*, 49(2):745–768, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Network-representation-using-graph-root-distributions/10.1214/20-AOS1976>. full.

**Leung:2022:ROC**

- [Leu22] Michael P. Leung. Rate-optimal cluster-randomized designs for spatial interference. *Annals of Statistics*, 50(5):3064–3087, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Rate-optimal-cluster-randomized-designs-for-spatial-interference/10.1214/22-AOS2224.full>.

**Lalancette:2021:RBE**

- [LEV21] Michaël Lalancette, Sebastian Engelke, and Stanislav Volgushev. Rank-based estimation under asymptotic dependence and independence, with applications to spatial extremes. *Annals of Statistics*, 49(5):2552–2576, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Rank-based-estimation-under-asymptotic-dependence-and-independence-with-applications/10.1214/20-AOS2046.full>.

**Lin:2021:ITS**

- [LFR21] Zhantao Lin, Nancy Flournoy, and William F. Rosenberger. Inference for a two-stage enrichment design. *Annals of Statistics*, 49(5):2697–2720, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Inference-for-a-two-stage-enrichment-design/10.1214/21-AOS2051.full>.

**Lopuhaa:2023:ELM**

- [LGRG23] Hendrik Paul Lopuhaä, Valerie Gares, and Anne Ruiz-Gazen.  $S$ -estimation in linear models with structured covariance matrices. *Annals of Statistics*, 51(6):2415–2439, December 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-6/S-estimation-in-linear-models-with-structured-covariance-matrices/10.1214/23-AOS2334.full>.

**Liu:2021:MRS**

- [LGS21] Haoyang Liu, Chao Gao, and Richard J. Samworth. Minimax rates in sparse, high-dimensional change point detection. *Annals of Statistics*, 49(2):1081–1112, April 2021. CO-



DEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Minimax-rates-in-sparse-high-dimensional-change-point-detection/10.1214/20-AOS1994.full>.

**Liu:2023:IUC**

- [LH23] Yang Liu and Feifang Hu. The impacts of unobserved covariates on covariate-adaptive randomized experiments. *Annals of Statistics*, 51(5):1895–1920, October 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-5/The-impacts-of-unobserved-covariates-on-covariate-adaptive-randomized-experiments/10.1214/23-AOS2308.full>.

**Liu:2023:CLL**

- [LHBS23] Zhijun Liu, Jiang Hu, Zhidong Bai, and Haiyan Song. A CLT for the LSS of large-dimensional sample covariance matrices with diverging spikes. *Annals of Statistics*, 51(5):2246–2271, October 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-5/A-CLT-for-the-LSS-of-large-dimensional-sample-covariance/10.1214/23-AOS2333.full>.

**Li:2020:AJD**

- [LHY20] Zeng Li, Fang Han, and Jianfeng Yao. Asymptotic joint distribution of extreme eigenvalues and trace of large sample covariance matrix in a generalized spiked population model. *Annals of Statistics*, 48(6):3138–3160, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Asymptotic-joint-distribution-of-extreme-eigenvalues-and-trace-of-large/10.1214/19-AOS1882.full>.

**Li:2022:BFD**

- [Li22] Cheng Li. Bayesian fixed-domain asymptotics for covariance parameters in a Gaussian process model. *Annals of Statistics*, 50(6):3334–3363, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/>

Bayesian-fixed-domain-asymptotics-for-covariance-parameters-in-a-Gaussian/10.1214/22-AOS2230.full.

**Lecue:2020:RML**

- [LL20] Guillaume Lecué and Matthieu Lerasle. Robust machine learning by median-of-means: Theory and practice. *Annals of Statistics*, 48(2):906–931, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480039>.

**Lee:2022:FSD**

- [LL22] Kuang-Yao Lee and Lexin Li. Functional sufficient dimension reduction through average Fréchet derivatives. *Annals of Statistics*, 50(2):904–929, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Functional-sufficient-dimension-reduction-through-average-Frchet-derivatives/10.1214/21-AOS2131.full>.

**Lin:2021:OSI**

- [LLHL21] Qian Lin, Xinran Li, Dongming Huang, and Jun S. Liu. On the optimality of sliced inverse regression in high dimensions. *Annals of Statistics*, 49(1):1–20, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/On-the-optimality-of-sliced-inverse-regression-in-high-dimensions/10.1214/19-AOS1813.full>.

**Lopes:2020:BMS**

- [LLM20] Miles E. Lopes, Zhenhua Lin, and Hans-Georg Müller. Bootstrapping max statistics in high dimensions: Near-parametric rates under weak variance decay and application to functional and multinomial data. *Annals of Statistics*, 48(2):1214–1229, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480052>.

**Lee:2021:FDT**

- [LLSS21] Sokbae Lee, Yuan Liao, Myung Hwan Seo, and Youngki Shin. Factor-driven two-regime regression. *Annals of Statistics*, 49(3):1656–1678, June 2021. CODEN ASTSC7. ISSN 0090-5364

(print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/Factor-driven-two-regime-regression/10.1214/20-AOS2017.full>.

**Lin:2021:TVR**

- [LM21a] Zhenhua Lin and Hans-Georg Müller. Total variation regularized Fréchet regression for metric-space valued data. *Annals of Statistics*, 49(6):3510–3533, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Total-variation-regularized-Frchet-regression-for-metric-space-valued-data/10.1214/21-AOS2095.full>.

**Lugosi:2021:RMM**

- [LM21b] Gábor Lugosi and Shahar Mendelson. Robust multivariate mean estimation: The optimality of trimmed mean. *Annals of Statistics*, 49(1):393–410, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Robust-multivariate-mean-estimation-The-optimality-of-trimmed-mean/10.1214/20-AOS1961.full>.

**Lahiry:2022:MNE**

- [LN22] Samriddha Lahiry and Michael Nussbaum. Minimax nonparametric estimation of pure quantum states. *Annals of Statistics*, 50(1):430–459, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Minimax-nonparametric-estimation-of-pure-quantum-states/10.1214/21-AOS2115.full>.

**Li:2023:GCO**

- [LO23] Harrison H. Li and Art B. Owen. A general characterization of optimal tie-breaker designs. *Annals of Statistics*, 51(3):1030–1057, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/A-general-characterization-of-optimal-tie-breaker-designs/10.1214/23-AOS2275.full>.

**Lopes:2022:CLT**

- [Lop22] Miles E. Lopes. Central limit theorem and bootstrap approximation in high dimensions: Near. *Annals of Statistics*, 50(5): 2492–2513, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Central-limit-theorem-and-bootstrap-approximation-in-high-dimensions/10.1214/22-AOS2184.full>.

**Liao:2022:BPL**

- [LQW<sup>+</sup>22] Peng Liao, Zhengling Qi, Runzhe Wan, Predrag Klasnja, and Susan A. Murphy. Batch policy learning in average reward Markov decision processes. *Annals of Statistics*, 50(6):3364–3387, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/Batch-policy-learning-in-average-reward-Markov-decision-processes/10.1214/22-AOS2231.full>.

**Liang:2020:JIK**

- [LR20a] Tengyuan Liang and Alexander Rakhlin. Just interpolate: Kernel “Ridgeless” regression can generalize. *Annals of Statistics*, 48(3):1329–1347, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Just-interpolate-Kernel-Ridgeless-regression-can-generalize/10.1214/19-AOS1849.full>.

**Liu:2020:MEL**

- [LR20b] Yu Liu and Zhao Ren. Minimax estimation of large precision matrices with bandable Cholesky factor. *Annals of Statistics*, 48(4):2428–2454, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Minimax-estimation-of-large-precision-matrices-with-bandable-Cholesky-factor/10.1214/19-AOS1893.full>.

**Li:2022:DRF**

- [LS22a] Bing Li and Jun Song. Dimension reduction for functional data based on weak conditional moments. *Annals of Statistics*, 50(1):107–128, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Dimension-reduction-for-functional-data-based-on-weak-conditional-moments/10.1214/22-AOS1070.full>.

org/journals/annals-of-statistics/volume-50/issue-1/  
Dimension-reduction-for-functional-data-based-on-weak-  
conditional-moments/10.1214/21-AOS2091.full.

**Liang:2022:PHD**

- [LS22b] Tengyuan Liang and Pragya Sur. A precise high-dimensional asymptotic theory for boosting and minimum- $\ell_1$ -norm interpolated classifiers. *Annals of Statistics*, 50(3):1669–1695, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/A-precise-high-dimensional-asymptotic-theory-for-boosting-and-minimum/10.1214/22-AOS2170.full>.

**Lee:2020:CCB**

- [LSV20] Anthony Lee, Sumeetpal S. Singh, and Matti Vihola. Coupled conditional backward sampling particle filter. *Annals of Statistics*, 48(5):3066–3089, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Coupled-conditional-backward-sampling-particle-filter/10.1214/19-AOS1922.full>.

**Loh:2021:FDA**

- [LSW21] Wei-Liem Loh, Saifei Sun, and Jun Wen. On fixed-domain asymptotics, parameter estimation and isotropic Gaussian random fields with Matérn covariance functions. *Annals of Statistics*, 49(6):3127–3152, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/On-fixed-domain-asymptotics-parameter-estimation-and-isotropic-Gaussian-random/10.1214/21-AOS2077.full>.

**Lauritzen:2021:TPE**

- [LUZ21] Steffen Lauritzen, Caroline Uhler, and Piotr Zwiernik. Total positivity in exponential families with application to binary variables. *Annals of Statistics*, 49(3):1436–1459, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/Total-positivity-in-exponential-families-with-application-to-binary-variables/10.1214/20-AOS2007.full>.

**Ledoit:2020:ANS**

- [LW20] Olivier Ledoit and Michael Wolf. Analytical nonlinear shrinkage of large-dimensional covariance matrices. *Annals of Statistics*, 48(5):3043–3065, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Analytical-nonlinear-shrinkage-of-large-dimensional-covariance-matrices/10.1214/19-AOS1921.full>.

**Li:2022:RGA**

- [LW22] Shuangning Li and Stefan Wager. Random graph asymptotics for treatment effect estimation under network interference. *Annals of Statistics*, 50(4):2334–2358, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/Random-graph-asymptotics-for-treatment-effect-estimation-under-network-interference/10.1214/22-AOS2191.full>.

**Li:2021:CLT**

- [LWL21] Zeng Li, Qinwen Wang, and Runze Li. Central limit theorem for linear spectral statistics of large dimensional Kendall’s rank correlation matrices and its applications. *Annals of Statistics*, 49(3):1569–1593, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/Central-limit-theorem-for-linear-spectral-statistics-of-large-dimensional/10.1214/20-AOS2013.full>.

**Lyu:2023:OEC**

- [LX23] Zhongyuan Lyu and Dong Xia. Optimal estimation and computational limit of low-rank Gaussian mixtures. *Annals of Statistics*, 51(2):646–667, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/Optimal-estimation-and-computational-limit-of-low-rank-Gaussian-mixtures/10.1214/23-AOS2264.full>.

**Lee:2020:BCR**

- [LY20] Stephen M. S. Lee and Puyudi Yang. Bootstrap confidence regions based on  $M$ -estimators under nonstandard conditions. *Annals of Statistics*, 48(1):274–299, February 2020. CODEN

ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930135>.

**Lauritzen:2022:LAG**

- [LZ22a] Steffen Lauritzen and Piotr Zwiernik. Locally associated graphical models and mixed convex exponential families. *Annals of Statistics*, 50(5):3009–3038, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Locally-associated-graphical-models-and-mixed-convex-exponential-families/10.1214/22-AOS2219.full>.

**Luo:2022:TCP**

- [LZ22b] Yuetian Luo and Anru R. Zhang. Tensor clustering with planted structures: Statistical optimality and computational limits. *Annals of Statistics*, 50(1):584–613, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Tensor-clustering-with-planted-structures--Statistical-optimality-and-computational/10.1214/21-AOS2123.full>.

**Loffler:2021:OSC**

- [LZZ21] Matthias Löffler, Anderson Y. Zhang, and Harrison H. Zhou. Optimality of spectral clustering in the Gaussian mixture model. *Annals of Statistics*, 49(5):2506–2530, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Optimality-of-spectral-clustering-in-the-Gaussian-mixture-model/10.1214/20-AOS2044.full>.

**Mukherjee:2021:OLD**

- [MBR21] Debarghya Mukherjee, Moulinath Banerjee, and Ya'acov Rivtsov. Optimal linear discriminators for the discrete choice model in growing dimensions. *Annals of Statistics*, 49(6):3324–3357, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Optimal-linear-discriminators-for-the-discrete-choice-model-in-growing/10.1214/21-AOS2085.full>.

**Mourtada:2020:MOR**

- [MGS20] Jaouad Mourtada, Stéphane Gaïffas, and Erwan Scornet. Minimax optimal rates for Mondrian trees and forests. *Annals of Statistics*, 48(4):2253–2276, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Minimax-optimal-rates-for-Mondrian-trees-and-forests/10.1214/19-AOS1886.full>.

**Mogensen:2020:MEM**

- [MH20] Søren Wengel Mogensen and Niels Richard Hansen. Markov equivalence of marginalized local independence graphs. *Annals of Statistics*, 48(1):539–559, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930146>.

**McCormack:2022:SEF**

- [MH22] Andrew McCormack and Peter Hoff. The Stein effect for Fréchet means. *Annals of Statistics*, 50(6):3647–3676, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/The-Stein-effect-for-Fr%C3%A9chet-means/10.1214/22-AOS2245.full>.

**Mukherjee:2022:MOS**

- [MJ22] Gourab Mukherjee and Iain M. Johnstone. On minimax optimality of sparse Bayes predictive density estimates. *Annals of Statistics*, 50(1):81–106, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/On-minimax-optimality-of-sparse-Bayes-predictive-density-estimates/10.1214/21-AOS2086.full>.

**Manole:2021:ENC**

- [MK21a] Tudor Manole and Abbas Khalili. Estimating the number of components in finite mixture models via the Group–Sort–Fuse procedure. *Annals of Statistics*, 49(6):3043–3069, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Estimating-the-number-of-components-in-finite-mixture-models-via/10.1214/21-AOS2072.full>.



**Morikawa:2021:SOE**

- [MK21b] Kosuke Morikawa and Jae Kwang Kim. Semiparametric optimal estimation with nonignorable nonresponse data. *Annals of Statistics*, 49(5):2991–3014, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Semiparametric-optimal-estimation-with-nonignorable-nonresponse-data/10.1214/21-AOS2070.full>.

**Miolane:2021:DLU**

- [MM21] Léo Miolane and Andrea Montanari. The distribution of the Lasso: Uniform control over sparse balls and adaptive parameter tuning. *Annals of Statistics*, 49(4):2313–2335, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/The-distribution-of-the-Lasso--Uniform-control-over-sparse/10.1214/20-AOS2038.full>.

**Marion:2023:FSC**

- [MMS23] Joe Marion, Joseph Mathews, and Scott C. Schmidler. Finite-sample complexity of sequential Monte Carlo estimators. *Annals of Statistics*, 51(3):1357–1375, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Finite-sample-complexity-of-sequential-Monte-Carlo-estimators/10.1214/23-AOS2295.full>.

**McGoff:2020:ERM**

- [MN20] Kevin McGoff and Andrew B. Nobel. Empirical risk minimization and complexity of dynamical models. *Annals of Statistics*, 48(4):2031–2054, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Empirical-risk-minimization-and-complexity-of-dynamical-models/10.1214/19-AOS1876.full>.

**Monard:2021:SGB**

- [MNP21] François Monard, Richard Nickl, and Gabriel P. Paternain. Statistical guarantees for Bayesian uncertainty quantification in nonlinear inverse problems with Gaussian process priors.

*Annals of Statistics*, 49(6):3255–3298, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Statistical-guarantees-for-Bayesian-uncertainty-quantification-in-nonlinear-inverse-problems/10.1214/21-AOS2082.full>.

**Mourtada:2022:EMR**

[Mou22] Jaouad Mourtada. Exact minimax risk for linear least squares, and the lower tail of sample covariance matrices. *Annals of Statistics*, 50(4):2157–2178, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/Exact-minimax-risk-for-linear-least-squares-and-the-lower/10.1214/22-AOS2181.full>.

**Mies:2023:EMF**

[MP23] Fabian Mies and Mark Podolskij. Estimation of mixed fractional stable processes using high-frequency data. *Annals of Statistics*, 51(5):1946–1964, October 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-5/Estimation-of-mixed-fractional-stable-processes-using-high-frequency-data/10.1214/23-AOS2312.full>.

**Meyer:2020:EVF**

[MPK20] Marco Meyer, Efstathios Paparoditis, and Jens-Peter Kreiss. Extending the validity of frequency domain bootstrap methods to general stationary processes. *Annals of Statistics*, 48(4):2404–2427, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Extending-the-validity-of-frequency-domain-bootstrap-methods-to-general/10.1214/19-AOS1892.full>.

**Mao:2020:TOE**

[MPW20] Cheng Mao, Ashwin Pananjady, and Martin J. Wainwright. Towards optimal estimation of bivariate isotonic matrices with unknown permutations. *Annals of Statistics*, 48(6):3183–3205, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Towards-optimal-estimation-of-bivariate-isotonic-matrices-with-unknown-permutations/10.1214/20-AOS1942.full>.

- org/journals/annals-of-statistics/volume-48/issue-6/  
Towards-optimal-estimation-of-bivariate-isotonic-matrices-  
with-unknown-permutations/10.1214/19-AOS1925.full.
- Ma:2023:OTC**
- [MPW23] Cong Ma, Reese Pathak, and Martin J. Wainwright. Optimally tackling covariate shift in RKHS-based nonparametric regression. *Annals of Statistics*, 51(2):738–761, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/Optimally-tackling-covariate-shift-in-RKHS-based-nonparametric-regression/10.1214/23-AOS2268.full>.
- Maruyama:2020:ABE**
- [MS20] Yuzo Maruyama and William E. Strawderman. Admissible Bayes equivariant estimation of location vectors for spherically symmetric distributions with unknown scale. *Annals of Statistics*, 48(2):1052–1071, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480045>.
- Mure:2021:PRP**
- [Mur21] Joseph Muré. Propriety of the reference posterior distribution in Gaussian process modeling. *Annals of Statistics*, 49(4):2356–2377, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Propriety-of-the-reference-posterior-distribution-in-Gaussian-process-modeling/10.1214/20-AOS2040.full>.
- Montanari:2021:ELR**
- [MV21] Andrea Montanari and Ramji Venkataramanan. Estimation of low-rank matrices via approximate message passing. *Annals of Statistics*, 49(1):321–345, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Estimation-of-low-rank-matrices-via-approximate-message-passing/10.1214/20-AOS1958.full>.
- Mao:2022:LMP**
- [MW22] Cheng Mao and Yihong Wu. Learning mixtures of permutations: Groups of pairwise comparisons and combinatorial method of

moments. *Annals of Statistics*, 50(4):2231–2255, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/Learning-mixtures-of-permutations--Groups-of-pairwise-comparisons-and/10.1214/22-AOS2185.full>.

**Ma:2023:BWC**

- [MWW23] Xinwei Ma, Jingshen Wang, and Chong Wu. Breaking the winner’s curse in Mendelian randomization: Rerandomized inverse variance weighted estimator. *Annals of Statistics*, 51(1):211–232, February 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-1/Breaking-the-winners-curse-in-Mendelian-randomization--Rerandomized-inverse/10.1214/22-AOS2247.full>.

**Mei:2023:SVD**

- [MWY23] Tianxing Mei, Chen Wang, and Jianfeng Yao. On singular values of data matrices with general independent columns. *Annals of Statistics*, 51(2):624–645, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/On-singular-values-of-data-matrices-with-general-independent-columns/10.1214/23-AOS2263.full>.

**Mendelson:2020:RCE**

- [MZ20] Shahar Mendelson and Nikita Zhivotovskiy. Robust covariance estimation under. *Annals of Statistics*, 48(3):1648–1664, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL [https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Robust-covariance-estimation-under-L\\_4-L\\_2-norm-equivalence/10.1214/19-AOS1862.full](https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Robust-covariance-estimation-under-L_4-L_2-norm-equivalence/10.1214/19-AOS1862.full).

**Montanari:2022:IPT**

- [MZ22] Andrea Montanari and Yiqiao Zhong. The interpolation phase transition in neural networks: Memorization and generalization under lazy training. *Annals of Statistics*, 50(5):2816–2847, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/The-interpolation-phase-transition-in-neural-networks--Memorization-and/10.1214/22-AOS2211.full>.

**Neykov:2021:MOC**

- [NBW21] Matey Neykov, Sivaraman Balakrishnan, and Larry Wasserman. Minimax optimal conditional independence testing. *Annals of Statistics*, 49(4):2151–2177, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Minimax-optimal-conditional-independence-testing/10.1214/20-AOS2030.full>.

**Ndaoud:2022:SOR**

- [Nda22] Mohamed Ndaoud. Sharp optimal recovery in the two component Gaussian mixture model. *Annals of Statistics*, 50(4):2096–2126, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/Sharp-optimal-recovery-in-the-two-component-Gaussian-mixture-model/10.1214/22-AOS2178.full>.

**Najafi:2021:SLS**

- [NIS<sup>+</sup>21] Amir Najafi, Saeed Ilchi, Amir Hossein Saberi, Seyed Abolfazl Motahari, Babak H. Khalaj, and Hamid R. Rabiee. On statistical learning of simplices: Unmixing problem revisited. *Annals of Statistics*, 49(3):1626–1655, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/On-statistical-learning-of-simplices-Unmixing-problem-revisited/10.1214/20-AOS2016.full>.

**Nevo:2021:ASL**

- [NLS21] Daniel Nevo, Judith J. Lok, and Donna Spiegelman. Analysis of “learn-as-you-go” (LAGO) studies. *Annals of Statistics*, 49(2):793–819, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Analysis-of-learn-as-you-go-LAGO-studies/10.1214/20-AOS1978.full>.

**Nickl:2020:NSI**

- [NR20] Richard Nickl and Kolyan Ray. Nonparametric statistical inference for drift vector fields of multi-dimensional diffusions. *Annals of Statistics*, 48(3):1383–1408, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (elec-

tronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Nonparametric-statistical-inference-for-drift-vector-fields-of-multi-dimensional/10.1214/19-AOS1851.full>.

Niles-Weed:2022:MES

- [NWB22] Jonathan Niles-Weed and Quentin Berthet. Minimax estimation of smooth densities in Wasserstein distance. *Annals of Statistics*, 50(3):1519–1540, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Minimax-estimation-of-smooth-densities-in-Wasserstein-distance/10.1214/21-AOS2161.full>.

Oh:2022:GEB

- [OQC22] Eun Jeong Oh, Min Qian, and Ying Kuen Cheung. Generalization error bounds of dynamic treatment regimes in penalized regression-based learning. *Annals of Statistics*, 50(4):2047–2071, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/Generalization-error-bounds-of-dynamic-treatment-regimes-in-penalized-regression/10.1214/22-AOS2171.full>.

Ortelli:2021:PBH

- [OvdG21] Francesco Ortelli and Sara van de Geer. Prediction bounds for higher order total variation regularized least squares. *Annals of Statistics*, 49(5):2755–2773, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Prediction-bounds-for-higher-order-total-variation-regularized-least-squares/10.1214/21-AOS2054.full>.

Obloj:2021:RES

- [OW21] Jan Obłój and Johannes Wiesel. Robust estimation of superhedging prices. *Annals of Statistics*, 49(1):508–530, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Robust-estimation-of-superhedging-prices/10.1214/20-AOS1966.full>.

**Panigrahi:2023:CMF**

- [Pan23] Snigdha Panigrahi. Carving model-free inference. *Annals of Statistics*, 51(6):2318–2341, December 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-6/Carving-model-free-inference/10.1214/23-AOS2318.full>.

**Paul:2020:SMF**

- [PC20] Subhadeep Paul and Yuguo Chen. Spectral and matrix factorization methods for consistent community detection in multi-layer networks. *Annals of Statistics*, 48(1):230–250, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930133>.

**Pilliat:2023:OPE**

- [PCV23] Emmanuel Pilliat, Alexandra Carpentier, and Nicolas Verzen. Optimal permutation estimation in CrowdSourcing problems. *Annals of Statistics*, 51(3):935–961, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Optimal-Permutation-Estimation-in-CrowdSourcing-problems/10.1214/23-AOS2271.full>.

**Pompe:2020:FAM**

- [PHL20] Emilia Pompe, Chris Holmes, and Krzysztof Latuszyński. A framework for adaptive MCMC targeting multimodal distributions. *Annals of Statistics*, 48(5):2930–2952, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/A-framework-for-adaptive-MCMC-targeting-multimodal-distributions/10.1214/19-AOS1916.full>.

**Petersen:2021:WTC**

- [PLD21] Alexander Petersen, Xi Liu, and Afshin A. Divani. Wasserstein  $F$ -tests and confidence bands for the Fréchet regression of density response curves. *Annals of Statistics*, 49(1):590–611, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/>

Wasserstein-F-tests-and-confidence-bands-for-the-Fr%  
c3%a9chet-regression/10.1214/20-AOS1971.full.

**Pananjady:2020:WCV**

- [PMM<sup>+</sup>20] Ashwin Pananjady, Cheng Mao, Vidya Muthukumar, Martin J. Wainwright, and Thomas A. Courtade. Worst-case versus average-case design for estimation from partial pairwise comparisons. *Annals of Statistics*, 48(2):1072–1097, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480046>.

**Pollak:2021:RTR**

- [Pol21] Moshe Pollak. A rule of thumb: Run lengths to false alarm of many types of control charts run in parallel on dependent streams are asymptotically independent. *Annals of Statistics*, 49(1):557–567, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/A-rule-of-thumb--Run-lengths-to-false-alarm/10.1214/20-AOS1968.full>.

**Padoan:2022:CBI**

- [PR22] Simone A. Padoan and Stefano Rizzelli. Consistency of Bayesian inference for multivariate max-stable distributions. *Annals of Statistics*, 50(3):1490–1518, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Consistency-of-Bayesian-inference-for-multivariate-max-stable-distributions/10.1214/21-AOS2160.full>.

**Paindaveine:2020:TPC**

- [PRV20] Davy Paindaveine, Julien Remy, and Thomas Verdebout. Testing for principal component directions under weak identifiability. *Annals of Statistics*, 48(1):324–345, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930137>.

**Porter:2020:BHM**

- [PS20] Thomas Porter and Michael Stewart. Beyond HC: More sensitive tests for rare/weak alternatives. *Annals of Statistics*, 48(4):2230–2252, August 2020. CODEN ASTSC7. ISSN 0090-5364



(print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Beyond-HC-More-sensitive-tests-for-rareweak-alternatives/10.1214/19-AOS1885.full>.

**Pananjady:2022:IRU**

- [PS22] Ashwin Pananjady and Richard J. Samworth. Isotonic regression with unknown permutations: Statistics, computation and adaptation. *Annals of Statistics*, 50(1):324–350, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Isotonic-regression-with-unknown-permutations-Statistics-computation-and-adaptation/10.1214/21-AOS2107.full>.

**Panigrahi:2021:IMP**

- [PTW21] Snigdha Panigrahi, Jonathan Taylor, and Asaf Weinstein. Integrative methods for post-selection inference under convex constraints. *Annals of Statistics*, 49(5):2803–2824, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Integrative-methods-for-post-selection-inference-under-convex-constraints/10.1214/21-AOS2057.full>.

**Paindaveine:2020:ISL**

- [PV20a] Davy Paindaveine and Thomas Verdebout. Inference for spherical location under high concentration. *Annals of Statistics*, 48(5):2982–2998, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Inference-for-spherical-location-under-high-concentration/10.1214/19-AOS1918.full>.

**Patilea:2020:GAC**

- [PV20b] Valentin Patilea and Ingrid Van Keilegom. A general approach for cure models in survival analysis. *Annals of Statistics*, 48(4):2323–2346, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/A-general-approach-for-cure-models-in-survival-analysis/10.1214/19-AOS1889.full>.

**Pang:2021:CMO**

- [PWLL21] Shanqi Pang, Jing Wang, Dennis K. J. Lin, and Min-Qian Liu. Construction of mixed orthogonal arrays with high strength. *Annals of Statistics*, 49(5):2870–2884, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Construction-of-mixed-orthogonal-arrays-with-high-strength/10.1214/21-AOS2063.full>.

**Qiu:2023:ANE**

- [QLY23] Jiaxin Qiu, Zeng Li, and Jianfeng Yao. Asymptotic normality for eigenvalue statistics of a general sample covariance matrix when. *Annals of Statistics*, 51(3):1427–1451, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Asymptotic-normality-for-eigenvalue-statistics-of-a-general-sample-covariance/10.1214/23-AOS2300.full>.

**Reeve:2021:ATL**

- [RCS21] Henry W. J. Reeve, Timothy I. Cannings, and Richard J. Samworth. Adaptive transfer learning. *Annals of Statistics*, 49(6):3618–3649, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Adaptive-transfer-learning/10.1214/21-AOS2102.full>.

**Reeve:2023:OSS**

- [RCS23] Henry W. J. Reeve, Timothy I. Cannings, and Richard J. Samworth. Optimal subgroup selection. *Annals of Statistics*, 51(6):2342–2365, December 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-6/Optimal-subgroup-selection/10.1214/23-AOS2328.full>.

**Rodriguez-Casal:2022:DAM**

- [RCSN22] Alberto Rodríguez-Casal and Paula Saavedra-Nieves. A data-adaptive method for estimating density level sets under shape conditions. *Annals of Statistics*, 50(3):1653–1668, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/A-data-adaptive-method-for-estimating-density-level-sets-under-shape-conditions/10.1214/22-AOS2200.full>.

org/journals/annals-of-statistics/volume-50/issue-3/A-data-adaptive-method-for-estimating-density-level-sets-under/10.1214/21-AOS2168.full.

**Richardson:2023:NMP**

- [RERS23] Thomas S. Richardson, Robin J. Evans, James M. Robins, and Ilya Shpitser. Nested Markov properties for acyclic directed mixed graphs. *Annals of Statistics*, 51(1):334–361, February 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-1/Nested-Markov-properties-for-acyclic-directed-mixed-graphs/10.1214/22-AOS2253.full>.

**Rottger:2023:TPM**

- [REZ23] Frank Röttger, Sebastian Engelke, and Piotr Zwiernik. Total positivity in multivariate extremes. *Annals of Statistics*, 51(3):962–1004, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Total-positivity-in-multivariate-extremes/10.1214/23-AOS2272.full>.

**Rytgaard:2022:CTT**

- [RGvdL22] Helene C. Rytgaard, Thomas A. Gerds, and Mark J. van der Laan. Continuous-time targeted minimum loss-based estimation of intervention-specific mean outcomes. *Annals of Statistics*, 50(5):2469–2491, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Continuous-time-targeted-minimum-loss-based-estimation-of-intervention-specific/10.1214/21-AOS2114.full>.

**Roycraft:2023:BPB**

- [RKP23] Benjamin Roycraft, Johannes Krebs, and Wolfgang Polonik. Bootstrapping persistent Betti numbers and other stabilizing statistics. *Annals of Statistics*, 51(4):1484–1509, August 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/Bootstrapping-persistent-Betti-numbers-and-other-stabilizing-statistics/10.1214/23-AOS2277.full>.

**Rohde:2020:GRC**

- [RS20a] Angelika Rohde and Lukas Steinberger. Geometrizing rates of convergence under local differential privacy constraints. *Annals of Statistics*, 48(5):2646–2670, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Geometrizing-rates-of-convergence-under-local-differential-privacy-constraints/10.1214/19-AOS1901.full>.

**Rousseau:2020:AFC**

- [RS20b] Judith Rousseau and Botond Szabo. Asymptotic frequentist coverage properties of Bayesian credible sets for sieve priors. *Annals of Statistics*, 48(4):2155–2179, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Asymptotic-frequentist-coverage-properties-of-Bayesian-credible-sets-for-sieve/10.1214/19-AOS1881.full>.

**Reiss:2020:NBA**

- [RSH20] Markus Reiß and Johannes Schmidt-Hieber. Nonparametric Bayesian analysis of the compound Poisson prior for support boundary recovery. *Annals of Statistics*, 48(3):1432–1451, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Nonparametric-Bayesian-analysis-of-the-compound-Poisson-prior-for-support/10.1214/19-AOS1853.full>.

**Roquain:2022:FDR**

- [RV22] Etienne Roquain and Nicolas Verzelen. False discovery rate control with unknown null distribution: Is it possible to mimic the oracle? *Annals of Statistics*, 50(2):1095–1123, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/False-discovery-rate-control-with-unknown-null-distribution--Is/10.1214/21-AOS2141.full>.

**Rockova:2020:PCB**

- [RvdP20] Veronika Rocková and Stéphanie van der Pas. Posterior concentration for Bayesian regression trees and forests.

*Annals of Statistics*, 48(4):2108–2131, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Posterior-concentration-for-Bayesian-regression-trees-and-forests/10.1214/19-AOS1879.full>.

**Ray:2020:SBC**

- [RvdV20] Kolyan Ray and Aad van der Vaart. Semiparametric Bayesian causal inference. *Annals of Statistics*, 48(5):2999–3020, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Semiparametric-Bayesian-causal-inference/10.1214/19-AOS1919.full>.

**Reiss:2020:NUB**

- [RW20a] Markus Reiß and Martin Wahl. Nonasymptotic upper bounds for the reconstruction error of PCA. *Annals of Statistics*, 48(2):1098–1123, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480047>.

**Royset:2020:VAC**

- [RW20b] Johannes O. Royset and Roger J-B Wets. Variational analysis of constrained  $M$ -estimators. *Annals of Statistics*, 48(5):2759–2790, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Variational-analysis-of-constrained-M-estimators/10.1214/19-AOS1905.full>.

**Reiss:2023:IMR**

- [RW23] Markus Reiss and Lars Winkelmann. Inference on the maximal rank of time-varying covariance matrices using high-frequency data. *Annals of Statistics*, 51(2):791–815, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/Inference-on-the-maximal-rank-of-time-varying-covariance-matrices/10.1214/23-AOS2273.full>.

**Rao:2021:RGW**

- [RY21] Suhasini Subba Rao and Junho Yang. Reconciling the Gaussian and Whittle likelihood with an application to estimation in the frequency domain. *Annals of Statistics*, 49(5):2774–2802, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Reconciling-the-Gaussian-and-Whittle-likelihood-with-an-application-to/10.1214/21-AOS2055.full>.

**Savje:2021:ATE**

- [SAH21] Fredrik Sävje, Peter M. Aronow, and Michael G. Hudgens. Average treatment effects in the presence of unknown interference. *Annals of Statistics*, 49(2):673–701, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/Average-treatment-effects-in-the-presence-of-unknown-interference/10.1214/20-AOS1973.full>.

**Silin:2022:CTN**

- [SF22] Igor Silin and Jianqing Fan. Canonical thresholding for non-sparse high-dimensional linear regression. *Annals of Statistics*, 50(1):460–486, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Canonical-thresholding-for-nonsparse-high-dimensional-linear-regression/10.1214/21-AOS2116.full>.

**Saha:2020:NML**

- [SG20] Sujayam Saha and Adityanand Guntuboyina. On the nonparametric maximum likelihood estimator for Gaussian location mixture densities with application to Gaussian denoising. *Annals of Statistics*, 48(2):738–762, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480032>.

**Shen:2020:OEV**

- [SGWH20] Yandi Shen, Chao Gao, Daniela Witten, and Fang Han. Optimal estimation of variance in nonparametric regression with random design. *Annals of Statistics*, 48(6):3589–3618, December 2020. CODEN ASTSC7. ISSN 0090-5364

(print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Optimal-estimation-of-variance-in-nonparametric-regression-with-random-design/10.1214/20-AOS1944.full>.

**Schmidt-Hieber:2020:NRU**

- [SH20a] Johannes Schmidt-Hieber. Nonparametric regression using deep neural networks with ReLU activation function. *Annals of Statistics*, 48(4):1875–1897, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Nonparametric-regression-using-deep-neural-networks-with-ReLU-activation-function/10.1214/19-AOS1875.full>. See discussion [Kut20].

**Shen:2020:HFE**

- [SH20b] Jinqi Shen and Tailen Hsing. Hurst function estimation. *Annals of Statistics*, 48(2):838–862, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480036>.

**Shi:2022:UCF**

- [SHDH22] Hongjian Shi, Marc Hallin, Mathias Drton, and Fang Han. On universally consistent and fully distribution-free rank tests of vector independence. *Annals of Statistics*, 50(4):1933–1959, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/On-universally-consistent-and-fully-distribution-free-rank-tests-of/10.1214/21-AOS2151.full>.

**Schmidt-Hieber:2021:PAB**

- [SHSS<sup>+</sup>21] Johannes Schmidt-Hieber, Laura Fee Schneider, Thomas Staudt, Andrea Krajina, Timo Aspelmeier, and Axel Munk. Posterior analysis of  $n$  in the binomial. *Annals of Statistics*, 49(6):3534–3558, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Posterior-analysis-of-n-in-the-binomial-np-problem-with/10.1214/21-AOS2096.full>.

**Spector:2022:PKM**

- [SJ22] Asher Spector and Lucas Janson. Powerful knockoffs via minimizing reconstructability. *Annals of Statistics*, 50(1):252–276, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Powerful-knockoffs-via-minimizing-reconstructability/10.1214/21-AOS2104.full>.

**Steinberger:2023:CPI**

- [SL23] Lukas Steinberger and Hannes Leeb. Conditional predictive inference for stable algorithms. *Annals of Statistics*, 51(1):290–311, February 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-1/Conditional-predictive-inference-for-stable-algorithms/10.1214/22-AOS2250.full>.

**Shao:2022:IRF**

- [SLY22] Lingxuan Shao, Zhenhua Lin, and Fang Yao. Intrinsic Riemannian functional data analysis for sparse longitudinal observations. *Annals of Statistics*, 50(3):1696–1721, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Intrinsic-Riemannian-functional-data-analysis-for-sparse-longitudinal-observations/10.1214/22-AOS2172.full>.

**Syring:2020:RRO**

- [SM20] Nicholas Syring and Ryan Martin. Robust and rate-optimal Gibbs posterior inference on the boundary of a noisy image. *Annals of Statistics*, 48(3):1498–1513, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Robust-and-rate-optimal-Gibbs-posterior-inference-on-the-boundary/10.1214/19-AOS1856.full>.

**Schoen:2023:OAO**

- [SM23] Eric D. Schoen and Robert W. Mee. Order-of-addition orthogonal arrays to study the effect of treatment ordering. *Annals of Statistics*, 51(4):1877–1894, August 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (elec-



tronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/Order-of-addition-orthogonal-arrays-to-study-the-effect-of/10.1214/23-AOS2317.full>.

**Stoltenberg:2022:CSD**

- [SMZ22] Emil A. Stoltenberg, Per A. Mykland, and Lan Zhang. A CLT for second difference estimators with an application to volatility and intensity. *Annals of Statistics*, 50(4):2072–2095, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/A-CLT-for-second-difference-estimators-with-an-application-to/10.1214/22-AOS2176.full>.

**Schell:2023:NIC**

- [SO23] Alexander Schell and Harald Oberhauser. Nonlinear independent component analysis for discrete-time and continuous-time signals. *Annals of Statistics*, 51(2):487–518, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/Nonlinear-independent-component-analysis-for-discrete-time-and-continuous-time/10.1214/23-AOS2256.full>.

**Shah:2020:HCI**

- [SP20] Rajen D. Shah and Jonas Peters. The hardness of conditional independence testing and the generalised covariance measure. *Annals of Statistics*, 48(3):1514–1538, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/The-hardness-of-conditional-independence-testing-and-the-generalised-covariance/10.1214/19-AOS1857.full>.

**Sanders:2020:CBM**

- [SPY20] Jaron Sanders, Alexandre Proutière, and Se-Young Yun. Clustering in Block Markov Chains. *Annals of Statistics*, 48(6):3488–3512, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/Clustering-in-Block-Markov-Chains/10.1214/19-AOS1939.full>.

**Schweinberger:2020:CCR**

- [SS20] Michael Schweinberger and Jonathan Stewart. Concentration and consistency results for canonical and curved exponential-family models of random graphs. *Annals of Statistics*, 48(1):374–396, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930139>.

**Sriperumbudur:2022:AKP**

- [SS22] Bharath K. Sriperumbudur and Nicholas Sterge. Approximate kernel PCA: Computational versus statistical trade-off. *Annals of Statistics*, 50(5):2713–2736, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Approximate-kernel-PCA-Computational-versus-statistical-trade-off/10.1214/22-AOS2204.full>.

**Spencer:2023:PSL**

- [SS23] Neil A. Spencer and Cosma Rohilla Shalizi. Projective, sparse and learnable latent position network models. *Annals of Statistics*, 51(6):2506–2525, December 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-6/Projective-sparse-and-learnable-latent-position-network-models/10.1214/23-AOS2340.full>.

**Shi:2021:CVI**

- [SSL21] Chengchun Shi, Rui Song, and Wenbin Lu. Concordance and value information criteria for optimal treatment decision. *Annals of Statistics*, 49(1):49–75, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Concordance-and-value-information-criteria-for-optimal-treatment-decision/10.1214/19-AOS1908.full>.

**Sherlock:2021:EDA**

- [STG21] Chris Sherlock, Alexandre H. Thiery, and Andrew Golightly. Efficiency of delayed-acceptance random walk Metropolis algorithms. *Annals of Statistics*, 49(5):2972–2990, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966

(electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Efficiency-of-delayed-acceptance-random-walk-Metropolis-algorithms/10.1214/21-AOS2068.full>.

**Strawderman:2021:CSC**

- [Str21] William E. Strawderman. On Charles Stein's contributions to (in)admissibility. *Annals of Statistics*, 49(4):1823–1835, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/On-Charles-Steins-contributions-to-inadmissibility/10.1214/21-AOS2108.full>.

**Szabo:2023:OHD**

- [SVvZ23] Botond Szabó, Lasse Vuursteen, and Harry van Zanten. Optimal high-dimensional and nonparametric distributed testing under communication constraints. *Annals of Statistics*, 51(3):909–934, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Optimal-high-dimensional-and-nonparametric-distributed-testing-under-communication-constraints/10.1214/23-AOS2269.full>.

**Szabo:2020:ADM**

- [SvZ20] Botond Szabó and Harry van Zanten. Adaptive distributed methods under communication constraints. *Annals of Statistics*, 48(4):2347–2380, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Adaptive-distributed-methods-under-communication-constraints/10.1214/19-AOS1890.full>.

**Shao:2007:AST**

- [SW07] Xiaofeng Shao and Wei Biao Wu. Asymptotic spectral theory for nonlinear time series. *Annals of Statistics*, 35(4):1773–1801, August 2007. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <http://projecteuclid.org/euclid.aos/1188405630>. See correction [ZSW22].

**Schramm:2022:CBE**

- [SW22] Tselil Schramm and Alexander S. Wein. Computational barriers to estimation from low-degree polynomials. *Annals of Statistics*,

50(3):1833–1858, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Computational-barriers-to-estimation-from-low-degree-polynomials/10.1214/22-AOS2179.full>.

**Schmidt:2021:ATC**

- [SWFD21] Sara K. Schmidt, Max Wornowizki, Roland Fried, and Herold Dehling. An asymptotic test for constancy of the variance under short-range dependence. *Annals of Statistics*, 49(6):3460–3481, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/An-asymptotic-test-for-constancy-of-the-variance-under-short/10.1214/21-AOS2092.full>.

**She:2021:AGB**

- [SWJ21] Yiyuan She, Zhifeng Wang, and Jiuwu Jin. Analysis of generalized Bregman surrogate algorithms for nonsmooth nonconvex statistical learning. *Annals of Statistics*, 49(6):3434–3459, December 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-6/Analysis-of-generalized-Bregman-surrogate-algorithms-for-nonsmooth-nonconvex-statistical/10.1214/21-AOS2090.full>.

**Sourisseau:2022:AAS**

- [SWZ22] Matt Sourisseau, Hau-Tieng Wu, and Zhou Zhou. Asymptotic analysis of synchrosqueezing transform-toward statistical inference with nonlinear-type time-frequency analysis. *Annals of Statistics*, 50(5):2694–2712, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Asymptotic-analysis-of-synchrosqueezing-transform-toward-statistical-inference-with-nonlinear-type/10.1214/22-AOS2203.full>.

**Tan:2020:MAI**

- [Tan20] Zhiqiang Tan. Model-assisted inference for treatment effects using regularized calibrated estimation with high-dimensional data. *Annals of Statistics*, 48(2):811–837, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480035>.

**Telschow:2023:EEE**

- [TCPS23] Fabian J. E. Telschow, Dan Cheng, Pratyush Pranav, and Armin Schwartzman. Estimation of expected Euler characteristic curves of nonstationary smooth random fields. *Annals of Statistics*, 51(5):2272–2297, October 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-5/Estimation-of-expected-Euler-characteristic-curves-of-nonstationary-smooth-random/10.1214/23-AOS2337.full>.

**Tian:2020:PEA**

- [Tia20] Xiaoying Tian. Prediction error after model search. *Annals of Statistics*, 48(2):763–784, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480033>.

**Tan:2020:SSO**

- [TSY20] Kai Tan, Lei Shi, and Zhou Yu. Sparse SIR: Optimal rates and adaptive estimation. *Annals of Statistics*, 48(1):64–85, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930126>.

**Tang:2021:WEF**

- [TX21] Yu Tang and Hongquan Xu. Wordlength enumerator for fractional factorial designs. *Annals of Statistics*, 49(1):255–271, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Wordlength-enumerator-for-fractional-factorial-designs/10.1214/20-AOS1955.full>.

**Tang:2023:MRD**

- [TY23] Rong Tang and Yun Yang. Minimax rate of distribution estimation on unknown submanifolds under adversarial losses. *Annals of Statistics*, 51(3):1282–1308, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Minimax-rate-of-distribution-estimation-on-unknown-submanifolds-under-adversarial/10.1214/23-AOS2291.full>.

**Tang:2020:PGE**

- [TYZ20] Niansheng Tang, Xiaodong Yan, and Xingqiu Zhao. Penalized generalized empirical likelihood with a diverging number of general estimating equations for censored data. *Annals of Statistics*, 48(1):607–627, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930149>.

**vandeGeer:2021:WVZ**

- [vdGK21] Sara van de Geer and Chris A. J. Klaassen. Willem van Zwet, teacher and thesis advisor. *Annals of Statistics*, 49(5):2448–2456, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Willem-van-Zwet-teacher-and-thesis-advisor/10.1214/21-AOS2069.full>.

**vanderVaart:2021:SEN**

- [vdVW21] A. W. van der Vaart and J. A. Wellner. Stein 1956: Efficient nonparametric testing and estimation. *Annals of Statistics*, 49(4):1836–1849, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Stein-1956-Efficient-nonparametric-testing-and-estimation/10.1214/21-AOS2056.full>.

**Velasco:2022:ETS**

- [Vel22] Carlos Velasco. Estimation of time series models using residuals dependence measures. *Annals of Statistics*, 50(5):3039–3063, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Estimation-of-time-series-models-using-residuals-dependence-measures/10.1214/22-AOS2220.full>.

**Verzelen:2023:OCP**

- [VFLRB23] Nicolas Verzelen, Magalie Fromont, Matthieu Lerasle, and Patricia Reynaud-Bouret. Optimal change-point detection and localization. *Annals of Statistics*, 51(4):1586–1610, August 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/Optimal-change-point-detection-and-localization/10.1214/23-AOS2297.full>.

**Vovk:2021:VCC**

- [VW21] Vladimir Vovk and Ruodu Wang. E-values: Calibration, combination and applications. *Annals of Statistics*, 49(3): 1736–1754, June 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-3/E-values-Calibration-combination-and-applications/10.1214/20-AOS2020.full>.

**Vovk:2022:AWM**

- [VWW22] Vladimir Vovk, Bin Wang, and Ruodu Wang. Admissible ways of merging p-values under arbitrary dependence. *Annals of Statistics*, 50(1):351–375, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Admissible-ways-of-merging-p-values-under-arbitrary-dependence/10.1214/21-AOS2109.full>.

**Westling:2020:USN**

- [WC20] Ted Westling and Marco Carone. A unified study of nonparametric inference for monotone functions. *Annals of Statistics*, 48(2):1001–1024, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480043>.

**Wang:2023:CCI**

- [WG23] Kang Wang and Subhashis Ghosal. Coverage of credible intervals in Bayesian multivariate isotonic regression. *Annals of Statistics*, 51(3):1376–1400, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Coverage-of-credible-intervals-in-Bayesian-multivariate-isotonic-regression/10.1214/23-AOS2298.full>.

**Wang:2022:DMR**

- [WGS<sup>+</sup>22] Jingshu Wang, Lin Gui, Weijie J. Su, Chiara Sabatti, and Art B. Owen. Detecting multiple replicating signals using adaptive filtering procedures. *Annals of Statistics*, 50(4):1890–1909, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/>

Detecting-multiple-replicating-signals-using-adaptive-filtering-procedures/10.1214/21-AOS2139.full.

**Wang:2022:RDC**

- [WL22] Yuhao Wang and Xinran Li. Rerandomization with diminishing covariate imbalance and diverging number of covariates. *Annals of Statistics*, 50(6):3439–3465, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/Rerandomization-with-diminishing-covariate-imbalance-and-diverging-number-of-covariates/10.1214/22-AOS2235.full>.

**Wang:2021:TLP**

- [WM21] Chunyan Wang and Robert W. Mee. Two-level parallel flats designs. *Annals of Statistics*, 49(5):3015–3042, October 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-5/Two-level-parallel-flats-designs/10.1214/21-AOS2071.full>.

**Wei:2022:CFM**

- [WN22] Yun Wei and XuanLong Nguyen. Convergence of de Finetti's mixing measure in latent structure models for observed exchangeable sequences. *Annals of Statistics*, 50(4):1859–1889, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/Convergence-of-de-Finettis-mixing-measure-in-latent-structure-models/10.1214/21-AOS2120.full>.

**Waghmare:2022:CCK**

- [WP22] Kartik G. Waghmare and Victor M. Panaretos. The completion of covariance kernels. *Annals of Statistics*, 50(6):3281–3306, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/The-completion-of-covariance-kernels/10.1214/22-AOS2228.full>.

**Wang:2023:PSA**

- [WQW23] Jiayi Wang, Zhengling Qi, and Raymond K. W. Wong. Projected state-action balancing weights for offline reinforcement



learning. *Annals of Statistics*, 51(4):1639–1665, August 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/Projected-state-action-balancing-weights-for-offline-reinforcement-learning/10.1214/23-AOS2302.full>.

**Wang:2020:HTH**

[WS20] Runmin Wang and Xiaofeng Shao. Hypothesis testing for high-dimensional time series via self-normalization. *Annals of Statistics*, 48(5):2728–2758, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Hypothesis-testing-for-high-dimensional-time-series-via-self-normalization/10.1214/19-AOS1904.full>.

**Weinstein:2023:PAM**

[WSB<sup>+</sup>23] Asaf Weinstein, Weijie J. Su, Małgorzata Bogdan, Rina Foygel Barber, and Emmanuel J. Candès. A power analysis for model-X knockoffs with  $\ell_p$ -regularized statistics. *Annals of Statistics*, 51(3):1005–1029, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/A-power-analysis-for-model-X-knockoffs-with-%e2%84%93p-regularized/10.1214/23-AOS2274.full>.

**Wang:2023:ROR**

[WT23] Di Wang and Ruey S. Tsay. Rate-optimal robust estimation of high-dimensional vector autoregressive models. *Annals of Statistics*, 51(2):846–877, April 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-2/Rate-optimal-robust-estimation-of-high-dimensional-vector-autoregressive-models/10.1214/23-AOS2278.full>.

**Wang:2020:WBE**

[WWM20] Shuaiwen Wang, Haolei Weng, and Arian Maleki. Which bridge estimator is the best for variable selection? *Annals of Statistics*, 48(5):2791–2823, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Which-bridge-estimator->

is-the-best-for-variable-selection/10.1214/19-AOS1906.full.

**Wu:2020:OEG**

- [WY20] Yihong Wu and Pengkun Yang. Optimal estimation of Gaussian mixtures via denoised method of moments. *Annals of Statistics*, 48(4):1981–2007, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Optimal-estimation-of-Gaussian-mixtures-via-denoised-method-of-moments/10.1214/19-AOS1873.full>.

**Wang:2021:OCP**

- [WYR21] Daren Wang, Yi Yu, and Alessandro Rinaldo. Optimal change point detection and localization in sparse dynamic networks. *Annals of Statistics*, 49(1):203–232, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Optimal-change-point-detection-and-localization-in-sparse-dynamic-networks/10.1214/20-AOS1953.full>.

**Wong:2022:SLC**

- [WZL22] Kin Yau Wong, Donglin Zeng, and D. Y. Lin. Semiparametric latent-class models for multivariate longitudinal and survival data. *Annals of Statistics*, 50(1):487–510, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Semiparametric-latent-class-models-for-multivariate-longitudinal-and-survival-data/10.1214/21-AOS2117.full>.

**Wang:2022:ICP**

- [WZVS22] Runmin Wang, Changbo Zhu, Stanislav Volgushev, and Xiaofeng Shao. Inference for change points in high-dimensional data via selfnormalization. *Annals of Statistics*, 50(2):781–806, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Inference-for-change-points-in-high-dimensional-data-via-selfnormalization/10.1214/21-AOS2127.full>.

**Xu:2020:ORC**

- [XJL20] Min Xu, Varun Jog, and Po-Ling Loh. Optimal rates for community estimation in the weighted stochastic block model. *Annals of Statistics*, 48(1):183–204, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930131>.

**Xu:2023:IIM**

- [XM23] Yuanzhe Xu and Sumit Mukherjee. Inference in Ising models on dense regular graphs. *Annals of Statistics*, 51(3):1183–1206, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Inference-in-Ising-models-on-dense-regular-graphs/10.1214/23-AOS2286.full>.

**Xu:2021:HDN**

- [XS21] Min Xu and Richard J. Samworth. High-dimensional non-parametric density estimation via symmetry and shape constraints. *Annals of Statistics*, 49(2):650–672, April 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-2/High-dimensional-nonparametric-density-estimation-via-symmetry-and-shape-constraints/10.1214/20-AOS1972.full>.

**Xue:2020:DCF**

- [XY20] Kaijie Xue and Fang Yao. Distribution and correlation-free two-sample test of high-dimensional means. *Annals of Statistics*, 48(3):1304–1328, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Distribution-and-correlation-free-two-sample-test-of-high-dimensional/10.1214/19-AOS1848.full>.

**Xi:2020:CEE**

- [XY20] Haokai Xi, Fan Yang, and Jun Yin. Convergence of eigenvector empirical spectral distribution of sample covariance matrices. *Annals of Statistics*, 48(2):953–982, April 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1590480041>.

**Xia:2021:SOC**

- [XYZ21] Dong Xia, Ming Yuan, and Cun-Hui Zhang. Statistically optimal and computationally efficient low rank tensor completion from noisy entries. *Annals of Statistics*, 49(1):76–99, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Statistically-optimal-and-computationally-efficient-low-rank-tensor-completion-from/10.1214/20-AOS1942.full>.

**Xia:2022:ILR**

- [XZZ22] Dong Xia, Anru R. Zhang, and Yuchen Zhou. Inference for low-rank tensors — no need to debias. *Annals of Statistics*, 50(2):1220–1245, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Inference-for-low-rank-tensorsno-need-to-debias/10.1214/21-AOS2146.full>.

**Yuan:2022:TCS**

- [YLFS22] Mingao Yuan, Ruiqi Liu, Yang Feng, and Zuofeng Shang. Testing community structure for hypergraphs. *Annals of Statistics*, 50(1):147–169, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Testing-community-structure-for-hypergraphs/10.1214/21-AOS2099.full>.

**Yadlowsky:2022:BCA**

- [YNB<sup>+</sup>22] Steve Yadlowsky, Hongseok Namkoong, Sanjay Basu, John Duchi, and Lu Tian. Bounds on the conditional and average treatment effect with unobserved confounding factors. *Annals of Statistics*, 50(5):2587–2615, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Bounds-on-the-conditional-and-average-treatment-effect-with-unobserved/10.1214/22-AOS2195.full>.

**Yuan:2021:CDD**

- [YQ21] Yubai Yuan and Annie Qu. Community detection with dependent connectivity. *Annals of Statistics*, 49(4):2378–2428, August 2021.

CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Community-detection-with-dependent-connectivity/10.1214/20-AOS2042.full>.

**Ye:2021:DIV**

- [YSK21] Ting Ye, Jun Shao, and Hyunseung Kang. Debiased inverse-variance weighted estimator in two-sample summary-data Mendelian randomization. *Annals of Statistics*, 49(4):2079–2100, August 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-4/Debiased-inverse-variance-weighted-estimator-in-two-sample-summary-data/10.1214/20-AOS2027.full>.

**Yang:2022:TTU**

- [YZZ22] Wenhao Yang, Liangyu Zhang, and Zhihua Zhang. Toward theoretical understandings of robust Markov decision processes: Sample complexity and asymptotics. *Annals of Statistics*, 50(6):3223–3248, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/Toward-theoretical-understandings-of-robust-Markov-decision-processes--Sample/10.1214/22-AOS2225.full>.

**Zhang:2023:ACS**

- [ZA23] Linfan Zhang and Arash A. Amini. Adjusted chi-square test for degree-corrected block models. *Annals of Statistics*, 51(6):2366–2385, December 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-6/Adjusted-chi-square-test-for-degree-corrected-block-models/10.1214/23-AOS2329.full>.

**Zhou:2023:CAB**

- [ZC23] Quan Zhou and Hyunwoong Chang. Complexity analysis of Bayesian learning of high-dimensional DAG models and their equivalence classes. *Annals of Statistics*, 51(3):1058–1085, June 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-3/Complexity-analysis-of-Bayesian-learning-of-high-dimensional-DAG-models/10.1214/23-AOS2280.full>.

**Zhang:2022:HPA**

- [ZCW22] Anru R. Zhang, T. Tony Cai, and Yihong Wu. Heteroskedastic PCA: Algorithm, optimality, and applications. *Annals of Statistics*, 50(1):53–80, February 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-1/Heteroskedastic-PCA-Algorithm-optimality-and-applications/10.1214/21-AOS2074>. full.

**Zhao:2022:RDB**

- [ZD22] Anqi Zhao and Peng Ding. Reconciling design-based and model-based causal inferences for split-plot experiments. *Annals of Statistics*, 50(2):1170–1192, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Reconciling-design-based-and-model-based-causal-inferences-for-split/10.1214/21-AOS2144>. full.

**Zhang:2020:CRV**

- [ZG20] Fengshuo Zhang and Chao Gao. Convergence rates of variational posterior distributions. *Annals of Statistics*, 48(4):2180–2207, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Convergence-rates-of-variational-posterior-distributions/10.1214/19-AOS1883>. full.

**Zhao:2022:PCA**

- [ZGV22] Yue Zhao, Irène Gijbels, and Ingrid Van Keilegom. Parametric copula adjusted for non- and semiparametric regression. *Annals of Statistics*, 50(2):754–780, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Parametric-copula-adjusted-for-non--and-semiparametric-regression/10.1214/21-AOS2126>. full.

**Zhilova:2020:NBE**

- [Zhi20] Mayya Zhilova. Nonclassical Berry–Esseen inequalities and accuracy of the bootstrap. *Annals of Statistics*, 48(4):1922–1939, August 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966

(electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-4/Nonclassical-BerryEsseen-inequalities-and-accuracy-of-the-bootstrap/10.1214/18-AOS1802.full>.

**Zhilova:2022:NET**

- [Zhi22] Mayya Zhilova. New Edgeworth-type expansions with finite sample guarantees. *Annals of Statistics*, 50(5):2545–2561, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/New-Edgeworth-type-expansions-with-finite-sample-guarantees/10.1214/22-AOS2192.full>.

**Zrnic:2023:PSI**

- [ZJ23] Tijana Zrnic and Michael I. Jordan. Post-selection inference via algorithmic stability. *Annals of Statistics*, 51(4):1666–1691, August 2023. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-51/issue-4/Post-selection-inference-via-algorithmic-stability/10.1214/23-AOS2303.full>.

**Zhu:2022:GRR**

- [ZJS22] Banghua Zhu, Jiantao Jiao, and Jacob Steinhardt. Generalized resilience and robust statistics. *Annals of Statistics*, 50(4):2256–2283, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/Generalized-resilience-and-robust-statistics/10.1214/22-AOS2186.full>.

**Zhang:2022:OBR**

- [ZLN22] Qihao Zhang, Soumendra N. Lahiri, and Daniel J. Nordman. On optimal block resampling for Gaussian-subordinated long-range dependent processes. *Annals of Statistics*, 50(6):3619–3646, December 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-6/On-optimal-block-resampling-for-Gaussian-subordinated-long-range-dependent/10.1214/22-AOS2242.full>.

**Zhao:2022:EFM**

- [ZLSK22] Anqi Zhao, Youjin Lee, Dylan S. Small, and Bikram Kar-makar. Evidence factors from multiple, possibly invalid, instrumental variables. *Annals of Statistics*, 50(3):1266–1296, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Evidence-factors-from-multiple-possibly-invalid-instrumental-variables/10.1214/21-AOS2148.full>.

**Zhong:2022:DLP**

- [ZMW22] Qixian Zhong, Jonas Mueller, and Jane-Ling Wang. Deep learning for the partially linear Cox model. *Annals of Statistics*, 50(3):1348–1375, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Deep-learning-for-the-partially-linear-Cox-model/10.1214/21-AOS2153.full>.

**Zhang:2022:RRR**

- [ZP22] Yunyi Zhang and Dimitris N. Politis. Ridge regression revisited: Debiasing, thresholding and bootstrap. *Annals of Statistics*, 50(3):1401–1422, June 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-3/Ridge-regression-revisited-Debiasing-thresholding-and-bootstrap/10.1214/21-AOS2156.full>.

**Zhu:2020:EBS**

- [ZS20] Guangyu Zhu and Zhihua Su. Envelope-based sparse partial least squares. *Annals of Statistics*, 48(1):161–182, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930130>.

**Zhang:2022:SSG**

- [ZS22] Tianyu Zhang and Noah Simon. A sieve stochastic gradient descent estimator for online nonparametric regression in Sobolev ellipsoids. *Annals of Statistics*, 50(5):2848–2871, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/A-sieve-stochastic-gradient-descent-estimator-for-online-nonparametric-regression/10.1214/22-AOS2212.full>.



**Zhang:2022:CNS**

- [ZSW22] Yi Zhang, Xiaofeng Shao, and Weibiao Wu. Correction note: Asymptotic spectral theory for nonlinear time series. *Annals of Statistics*, 50(5):3088–3089, October 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-5/Correction-note-Asymptotic-spectral-theory-for-nonlinear-time-series/10.1214/22-AOS2206.full>. See [SW07].

**Zou:2021:MBS**

- [ZVB21] Nan Zou, Stanislav Volgushev, and Axel Bücher. Multiple block sizes and overlapping blocks for multivariate time series extremes. *Annals of Statistics*, 49(1):295–320, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Multiple-block-sizes-and-overlapping-blocks-for-multivariate-time-series/10.1214/20-AOS1957.full>.

**Zhang:2021:CCS**

- [ZW21] Danna Zhang and Wei Biao Wu. Convergence of covariance and spectral density estimates for high-dimensional locally stationary processes. *Annals of Statistics*, 49(1):233–254, February 2021. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-49/issue-1/Convergence-of-covariance-and-spectral-density-estimates-for-high-dimensional/10.1214/20-AOS1954.full>.

**Zhao:2020:SIT**

- [ZWH<sup>+</sup>20] Qingyuan Zhao, Jingshu Wang, Gibran Hemani, Jack Bowden, and Dylan S. Small. Statistical inference in two-sample summary-data Mendelian randomization using robust adjusted profile score. *Annals of Statistics*, 48(3):1742–1769, June 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-3/Statistical-inference-in-two-sample-summary-data-Mendelian-randomization-using/10.1214/19-AOS1866.full>.

**Zou:2020:CSN**

- [ZWL20] Changliang Zou, Guanghui Wang, and Runze Li. Consistent selection of the number of change-points via sample-splitting. *Annals of Statistics*, 48(1):413–439, February 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/euclid.aos/1581930141>.

**Zhang:2022:EEN**

- [ZX22] Yuan Zhang and Dong Xia. Edgeworth expansions for network moments. *Annals of Statistics*, 50(2):726–753, April 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-2/Edgeworth-expansions-for-network-moments/10.1214/21-AOS2125.full>.

**Zhang:2020:TCG**

- [ZZ20] Anderson Y. Zhang and Harrison H. Zhou. Theoretical and computational guarantees of mean field variational inference for community detection. *Annals of Statistics*, 48(5):2575–2598, October 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-5/Theoretical-and-computational-guarantees-of-mean-field-variational-inference-for/10.1214/19-AOS1898.full>.

**Zhang:2022:AIS**

- [ZZPZ22] Zhixiang Zhang, Shurong Zheng, Guangming Pan, and Ping-Shou Zhong. Asymptotic independence of spiked eigenvalues and linear spectral statistics for large sample covariance matrices. *Annals of Statistics*, 50(4):2205–2230, August 2022. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-50/issue-4/Asymptotic-independence-of-spiked-eigenvalues-and-linear-spectral-statistics-for/10.1214/22-AOS2183.full>.

**Zhu:2020:DBR**

- [ZZYS20] Changbo Zhu, Xianyang Zhang, Shun Yao, and Xiaofeng Shao. Distance-based and RKHS-based dependence metrics in high dimension. *Annals of Statistics*, 48(6):3366–3394, December 2020. CODEN ASTSC7. ISSN 0090-5364 (print), 2168-8966 (electronic). URL <https://projecteuclid.org/journals/annals-of-statistics/volume-48/issue-6/>

Distance-based-and-RKHS-based-dependence-metrics-in-high-dimension/10.1214/19-AOS1934.full.