Marin Petković

Curriculum Vitae

University of Utah
Department of Mathematics
155 South 1400 East
Salt Lake City UT 84112

petkovic@math.utah.edu
www.math.utah.edu/~petkovic/

Education

- 2015-2022 **Doctoral Candidate, Mathematics**, *University of Utah*, Salt Lake City. Advisor: Prof. Aaron Bertram
- 2013-2015 **M.A., Mathematics**, *University of Zagreb*, Zagreb, Croatia. Thesis: *Divisors on Algebraic Curves* (in Croatian). Advisor: Prof. Goran Muić
- 2010-2013 B.A., Mathematics, University of Zagreb, Zagreb, Croatia.

Research Interests

Algebraic geometry, Derived categories, Bridgeland's stability conditions, Moduli spaces, Mirror symmetry

Preprints

- 2020 A note on the Kuznetsov component of the Veronese double cone, with Franco Rota, preprint arXiv:2007.05555.
- 2019 Moduli spaces on the Kuznetsov component of Fano threefolds of index 2, with Matteo Altavilla and Franco Rota, preprint arxiv:1908.10986.

Talks

- Dec. 2020 Stability on Kuznetsov component of the Veronese double cone, Algebraic geometry seminar, University of Utah
- Dec. 2019 Moduli spaces on Kuznetsov component of Fano threefolds of index 2, FRG Workshop on Stability, Moduli Spaces and Applications, UIC, Chicago At the University of Utah
- Feb. 2022 Moduli spaces via exceptional collections, Algebraic Geometry student seminar
- Oct. 2021 Constructing moduli spaces of sheaves, Algebraic Geometry student seminar
- Mar. 2021 Stability conditions on projective spaces, Algebraic Geometry student seminar
- Sep. 2020 Kuznetsov component of the Veronese double cone, Algebraic Geometry student seminar
- Jan. 2020 Linear spaces contained in two quadrics and vector bundles on curves, Algebraic Geometry student seminar

Sep. 2019 Matrix factorizations and Orlov's theorem, Algebraic Geometry student semi-Feb. 2018 Tropical Brill-Noether theorem, Algebraic Geometry student seminar Sep. 2017 Stability conditions and Brill-Noether, Algebraic Geometry student seminar Sep. 2016 Embeddings of Curves and Syzygies, Algebraic Geometry student seminar Nov. 2015 Secant varieties and Waring rank, Algebraic Geometry student seminar Conferences and Workshops Attended Spring 2020 RTG Mini-conference: Riemann surfaces and their moduli spaces, University of Utah Fall 2019 FRG Workshop on Stability, Moduli Spaces and Applications, UIC WAGS, University of Utah Summer 2019 Workshop: Graduate Summer School on Homological Algebra of Mirror Symmetry, The Fields Institute Spring 2019 Workshop: Recent Progress in Moduli Theory, MSRI WAGS, UC Berkeley Fall 2018 FRG Workshop on Moduli Spaces of sheaves and Bridgeland Stability, UIC WAGS, Oregon State University Yamabe symposium, UMN, Minneapolis Summer 2018 Workshop: Summer Graduate School on Derived Categories, MSRI Spring 2018 Crossing the walls in enumerative geometry, Snowbird Workshop: semiorthogonal decompositions, stability conditions and sheaves of categories, Toulouse Fall 2017 Moduli of sheaves and strange duality, Penn State University WAGS, UCLA, Los Angeles Spring 2017 Geometry of moduli spaces, San Diego Spring 2016 Complex algebraic geometry in San Diego, UCSD, La Jolla Teaching University of Utah Spring 2022 Instructor, Introduction to Quantitative Reasoning, MATH 1030 Fall 2021 Instructor, Introduction to Quantitative Reasoning, MATH 1030 Summer 2021 Instructor, Calculus III, Math 2210 Spring 2021 Instructor, Introduction to Quantitative Reasoning, MATH 1030 Fall 2020 Instructor, Introduction to Quantitative Reasoning, MATH 1030 Summer 2020 Instructor, Calculus I, MATH 1210 Spring 2020 Instructor, Online Calculus I, MATH 1210

Fall 2019	Instructor, Introduction to Quantitative Reasoning, MATH 1030
Summer 2019	Instructor, Business Calculus, MATH 1100
Spring 2019	Instructor, Online Calculus I, MATH 1210
Fall 2018	Instructor, Calculus I, MATH 1210
Spring 2018	Instructor, Business Calculus, MATH 1100
Fall 2017	Instructor, Trigonometry, MATH 1060
Summer 2017	Instructor, Business Calculus, MATH 1100
Spring 2017	Teaching Assistant, Accel. Eng. Calculus II, MATH 1321
Fall 2016	Instructor, Trigonometry, MATH 1060
Spring 2016	Teaching Assistant, Engineering Calculus II, MATH 1320
Fall 2015	Teaching Assistant, Accelerated Engineering Calculus II, MATH 1321
	Selected Awards and Fellowships
2014	International Mathematical Competition (IMC), Blagoevgrad, Bulgaria – First
	Prize
2010	International Mathematical Olympiad (IMO) – Bronze medal
2010	American Computer Science League (ACSL) – second place
	Service - Outreach
2019 - 2020	Mentoring for incoming PhD students, University of Utah Math department,
	Algebraic Geometry mentor
	Programming skills
Basic	html, Java, R
Intermediate	IATEX, C/C++, Python, Macaulay2, Mathematica
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	Languages
	Croatian (native), English (intermediate)