

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

Phone: +1 (801) 581-7121
 Fax: +1 (801) 581-6851
defernex@math.utah.edu
www.math.utah.edu/~defernex

EDUCATION	July 2002	Ph.D. in Mathematics, University of Illinois at Chicago
	February 2001	Dottorato di Ricerca in Matematica, Università di Genova
	February 1996	Laurea in Matematica (summa cum laude), Università di Milano
APPOINTMENTS	07/17–present	Associate Department Chair, University of Utah
	07/14–present	Professor, University of Utah
	07/09–06/14	Associate Professor, University of Utah
	07/05–06/09	Assistant Professor (tenure-track), University of Utah
	08/02–07/05	T. H. Hildebrandt Research Assistant Professor, University of Michigan
VISITING POSITIONS	05/11–06/11	Visiting Professor, École Normale Supérieure, Paris
	05/09–07/09	Visiting Scholar, Institut de Mathématiques de Jussieu
	01/09–04/09	Research Member, MSRI, Jumbo Program in Algebraic Geometry
	May 2006	Visiting Scholar, Università di Genova
	09/05–04/06	Member, Institute for Advanced Study
	09/99–12/99	Visiting Research Assistant, University of Hong Kong
PERSONAL GRANTS & HONORS	2018–2021	NSF Grant DMS-1700769, PI
	2014–2017	NSF Grant DMS-1402907, PI
	2012–2013	Simons Fellow in Mathematics
	2009–2014	NSF CAREER Grant DMS-0847059, PI
	2009	Fellowship, Foundation Sciences Mathématiques de Paris
	2005–2011	John E. and Marva M. Warnock Presidential Endowed Chair for Faculty Development, University of Utah
	2005	Fellowship, Istituto Nazionale di Alta Matematica
	2005–2008	NSF Grant DMS-0548325, PI
	2005–2006	NSF Grant DMS-0111298, PI
	2002–2005	Rackham Research Grant, University of Michigan
	2002	Rackham Faculty Summer Fellowship, University of Michigan
	2002–2005	T. H. Hildebrandt Assistant Professorship, University of Michigan
	2000–2001	University Fellowship, University of Illinois at Chicago
1996–2000	Doctoral scholarship, Università di Genova	

OTHER GRANTS	2015	NSF Grant 1500652, The Boot Camp for the 2015 Algebraic Geometry Summer Research Institute, Co-PI
	2015	NSF Grant 1447423, 2015 AMS Summer Institute in Algebraic Geometry, Co-PI
	2015	NSA Grant H98230-15-1-0225, AMS Summer Institute in Algebraic Geometry, PI
	2013–2016	NSF FRG Grant DMS-1265285, Collaborative grant: Birational geometry and singularities in zero and positive characteristic, PI
	2013–2018	NSF RTG Grant DMS-1246989, Algebraic Geometry and Topology at the University of Utah, Co-PI & Co-Director

- PUBLICATIONS
1. T. de Fernex, L. Ein and S. Ishii, Jet closures and the local isomorphism problem, submitted, [arXiv:1704.07494](#)
 2. T. de Fernex and R. Docampo, Differentials on the arc space, submitted, [arXiv:1703.07505](#)
 3. T. de Fernex and Y.-C. Tu, Towards a link theoretic characterization of smoothness, to appear in *Math. Res. Lett.*, [arXiv:1608.08510](#)
 4. T. de Fernex, The arc space of an algebraic variety, to appear in the Proceedings of the 2015 AMS Summer Institute in Algebraic Geometry, [arXiv:1604.02728](#)
 5. T. de Fernex, Birational geometry of singular Fano hypersurfaces, *Ann. Sc. Norm. Super. Pisa, Cl. Sci. (5)* **17** (2017), 911–929
 6. T. de Fernex, Colength of a product of ideals, in appendix to: J. Kollár and A. Némethi, Dufree’s conjecture on the signature of smoothings of surface singularities, *Ann. Sci. École Norm. Sup.* **50** (2017), 787–798
 7. T. de Fernex and R. Docampo, Terminal valuations and the Nash problem, *Invent. Math.* **203** (2016), 303–331
 8. T. de Fernex and M. Mustață, The volume of a set of arcs on a variety, *Rev. Roumaine Math. Pures Appl.* **60** (2015), 375–401, special issue in honor of Lucian Badescu’s 70th birthday
 9. T. de Fernex, R. Docampo, S. Takagi and K. Tucker, Comparing multiplier ideals to test ideals on numerically \mathbb{Q} -Gorenstein varieties, *Bull. London Math. Soc.* **47** (2015), 359–369
 10. T. de Fernex, J. Kollár and C. Xu, The dual complex of singularities, in “Higher dimensional algebraic geometry” in honour of Professor Yujiro Kawamata’s 60th birthday, 103–130, *Adv. Stud. Pure Math.* Vol. 74, 2017.
 11. S. Boucksom, T. de Fernex, C. Favre and S. Urbinati, Valuation spaces and multiplier ideals on singular varieties, in “Recent Advances in Algebraic Geometry,” a volume in honor of Rob Lazarsfeld’s 60th birthday, 29–51, *London Math. Soc. Lecture Note Series*, Cambridge University Press, 2015
 12. T. de Fernex, Fano hypersurfaces and their birational geometry, in “Automorphisms in Birational and Affine Geometry,” Levico Terme, Italy, October 2012, 103–120, *Springer Proc. Math. Stat.* Vol. 79, 2014.
 13. T. de Fernex and R. Docampo, Jacobian discrepancies and rational singularities, *J. Eur. Math. Soc.* **16** (2014), 165–199
 14. T. de Fernex, Three-dimensional counter-examples to the Nash problem, *Compositio Math.* **149** (2013), 1519–1534
 15. T. de Fernex, Birationally rigid hypersurfaces, *Invent. Math.* **192** (2013), 533–566

16. T. de Fernex and D. Fusi, Rationality in families of threefolds, *Rend. Circ. Mat. Palermo* **62** (2013), 127–135
17. S. Boucksom, T. de Fernex and C. Favre, The volume of an isolated singularity, *Duke Math. J.* **161** (2012), 1455–1520
18. T. de Fernex and C. Hacon, Rigidity properties of Fano varieties, in Current Developments in Algebraic Geometry, MSRI Publications, Volume 59, 2011
19. T. de Fernex and C. Hacon, Deformations of canonical pairs and Fano varieties, *J. reine angew. Math.* **651** (2011), 97–126
20. T. de Fernex, L. Ein and M. Mustața, Log canonical thresholds on varieties with bounded singularities, in Classification of algebraic varieties, 221–257, *EMS Ser. Congr. Rep., Eur. Math. Soc., Zürich*, 2011
21. T. de Fernex, L. Ein and M. Mustața, Shokurov’s ACC Conjecture for log canonical thresholds on smooth varieties, *Duke Math. J.* **152** (2010), 93–114
22. T. de Fernex and L. Ein, A vanishing theorem for log canonical pairs, *Amer. J. Math.* **132** (2010), 1205–1221
23. T. de Fernex and C. Hacon, Singularities on normal varieties, *Compositio Math.* **145** (2009), 393–414
24. T. de Fernex and M. Mustața, Limits of log canonical thresholds, *Ann. Sci. Éc. Norm. Super.* **42** (2009), 493–517
25. M. C. Beltrametti, T. de Fernex and A. Lanteri, Ample subvarieties and rationally connected fibrations, *Math. Ann.* **341** (2008), 897–926
26. T. de Fernex, L. Ein and S. Ishii, Divisorial valuations via arcs, *Publ. Res. Inst. Math. Sci.* **44** (2008), 425–448, special issue dedicated to Professor H. Hironaka
27. T. de Fernex, A. Küronya and R. Lazarsfeld, Higher cohomology of divisors on a projective variety, *Math. Ann.* **337** (2007), 443–455
28. T. de Fernex, E. Lupercio, T. Nevins and B. Uribe, Stringy Chern classes of singular varieties, *Adv. Math.* **208** (2007), 597–621
29. T. de Fernex, E. Lupercio, T. Nevins and B. Uribe, A localization principle for orbifold theories, in “Recent Developments in Algebraic Topology,” A. Adem et al. eds., Proceedings for the Conference in honor of the 70th birthday of S. Gitler, 113–133, *Contemp. Math.* **407**, Amer. Math. Soc., Providence, RI, 2006
30. T. de Fernex, Length, multiplicity, and multiplier ideals, *Trans. Amer. Math. Soc.* **358** (2006), 3717–3731
31. T. de Fernex and A. Lanteri, Bad loci of free linear systems, *Adv. Geom.* **6** (2006), 93–107
32. T. de Fernex, Negative curves on very general blow-ups of \mathbb{P}^2 , *Projective Varieties with Unexpected Properties*, a Volume in Memory of Giuseppe Veronese, 199–207, de Gruyter, Berlin, 2005
33. T. de Fernex, L. Ein and M. Mustața, Multiplicities and log canonical threshold, *J. Algebraic Geom.* **13** (2004), 603–615
34. T. de Fernex, On planar Cremona maps of prime order, *Nagoya Math. J.* **174** (2004), 1–28
35. T. de Fernex, L. Ein and M. Mustața, Bounds on log canonical thresholds with application to birational rigidity, *Math. Res. Lett.* **10** (2003), 219–236
36. T. de Fernex and L. Ein, Resolution of indeterminacy of pairs, *Algebraic Geometry*, a Volume in Memory of Paolo Francia, 165–177, de Gruyter, Berlin, 2002
37. T. de Fernex, Ample vector bundles and intrinsic quadric fibrations over irrational

curves, *Matematiche (Catania)*, **55** (2000), 205–222

38. T. de Fernex and A. Lanteri, Ample vector bundles and del Pezzo manifolds. *Kodai Math. J.* **22** (1999), 85–100
39. T. de Fernex, Ample vector bundles with sections vanishing along conic fibrations over curves, *Collect. Math.* **49** (1998), 67–79

CONFERENCE TALKS

1. Conference “Singularities and Algebraic Geometry,” Da Nang (Vietnam), January 2018
2. Conference “Higher dimensional algebraic geometry and characteristic p ,” CIRM, Luminy, September 2016
3. Conference “Local and global methods in algebraic geometry” in honor of Lawrence Ein’s 60th birthday, University of Illinois at Chicago, May 2016
4. AMS Summer Research Institute in Algebraic Geometry, University of Utah, July 2015
5. Oberwolfach Workshop “Algebraic Geometry,” Oberwolfach, March 2015
6. “Algebraic and Complex Geometry,” Satellite Conference of ICM 2014, KAIST (Korea), August 2014
7. Program “Complex Geometry,” Institute of Mathematical Science, Singapore, July–August 2013
8. Conference on “Motivic Invariants and Singularities,” Center for Mathematics at the University of Notre Dame, June 2013
9. “Recent Advances in Algebraic Geometry,” a conference in honor of Rob Lazarsfeld’s 60th birthday, University of Michigan, May 2013
10. Workshop on “The Commutative Algebra of Singularities in Birational Geometry: Multiplier Ideals, Jets, Valuations, and Positive Characteristic Methods,” MSRI, May 2013
11. Conference on “Groups of Automorphisms in Birational and Affine Geometry” CIRM (Levico Terme, Italy), October–November 2012
12. Texas Algebraic Geometry Symposium, University of Texas A&M, April 2012
13. Special session on “Algebraic Geometry: Singularities and Moduli,” AMS Meeting, University of Hawaii, March 2012
14. AIM Workshop on “Relating test ideals and multiplier ideals,” Palo Alto, August 2011
15. Western Algebraic Geometry Symposium, Stanford University, April 2011
16. Special session on “Singularities in Algebraic Geometry,” AMS Meeting, University of Notre Dame, November 2010
17. COW Seminar, Oxford University, October 2010
18. Congrès de Géométrie Algébrique Complexe, Institut Henri Poincaré, Paris, June–July 2010
19. Conference “Giornate di Geometria Algebrica ed Argomenti Correlati,” Gargnano (Italy), May 2010
20. Freiburg-Nancy-Strasbourg Joint Meeting, Université de Strasbourg, June 2009
21. “Projective Algebraic Geometry in Milano,” Conference in Honor of the 60th birthday of Antonio Lanteri. Università di Milano, June 2009
22. IAS/Park City Mathematics Institute (PCMI) Summer Session, “Analytic and Algebraic Geometry: Common Problems Different Methods,” Park City, Utah, July

2008

23. American Mathematical Society/Sociedade Brasileira de Matematica, First Joint Meeting, IMPA, Rio de Janeiro, Brazil, June 2008
24. “Algebraic Geometry and Commutative Algebra,” A conference to celebrate Robin Hartshorne’s 70th birthday, University of Illinois at Chicago, April 2008
25. Special session on “Birational algebraic geometry,” Spring Central Section Meeting, Indiana University, April 2008
26. Workshop “Seminario di Natale,” Università di Milano, December 2007
27. Workshop on “Higher Dimensional Algebraic Geometry,” National Taiwan University, Taiwan, March 2007
28. Western Algebraic Geometry Symposium, University of Utah, November 2006
29. Special Session on “Birational geometry,” AMS Central Sectional Meeting, University of Cincinnati, October 2006
30. Eighth Meeting on Commutative Algebra and Algebraic Geometry, IMPA, Rio de Janeiro, Brazil, July 2006
31. Genova-Nice Meeting, Università di Genova, May 2006
32. BIRS Workshop, “Recent trends in higher dimensional geometry,” Banff, Canada, April 2006
33. JAMI Conference/Workshop 2006 on “Recent Developments in Higher Dimensional Algebraic Geometry,” Johns Hopkins University, March 2006
34. Conference on “Singularity theory and commutative ring theory,” Hamana-ko, Japan, September 2005
35. AGaFe 2005, Conference on “Geometry of algebraic varieties,” Università di Ferrara, June 2005
36. “Projective varieties with unexpected properties,” Conference for the 150th anniversary of the birth of Giuseppe Veronese, Università di Siena, June 2004
37. The UM/OSU Algebraic Geometry Workshop, Ohio State University, March 2004
38. Arithmetic and Algebraic Geometry Conference, University of Tokyo, January 2004
39. “Minimal Model Activity,” Special Year in Algebraic Geometry and Topology, Australian National University, Canberra, August 2003
40. Conference in Algebraic Geometry in memory of Paolo Francia, Università di Genova, September 2001
41. AGaFe 2001, School on “Birational and projective geometry of algebraic varieties,” University of Ferrara, September 2001
42. Convegno di Geometria Algebrica ed Argomenti Correlati, Gargnano (Italy), May 2000
43. Pragmatic 1998, School on “Linear systems and vanishing theorems,” Università di Catania, June 1998

COLLOQUIA &
SEMINAR TALKS

- 2017 University of Oklahoma (colloquium), University of Illinois at Chicago, Johns Hopkins University
- 2016 University of Michigan
- 2014 University of Leuven, Yale University, SUNY–Stony Brook
- 2013 University of Utah
- 2012 Ohio State University (*colloquium*), University of Notre Dame (*colloquium*), Uni-

- versity of Illinois at Chicago, University of British Columbia, University of British Columbia (*colloquium*)
- 2011 Università di Milano, École Normale Supérieure, IMPA–Rio de Janeiro
- 2010 Institut de Mathématique de Toulouse, Institut Fourier, Università di Roma Tre, University of Illinois at Chicago, University of Cambridge, University of Warwick, Institut Mathématique de Jussieu, University of Utah, Università di Milano, University of Chicago, Stanford University
- 2009 Princeton University, University of British Columbia, University of Michigan, Université de Nice Sophia-Antipolis, Imperial College, Università di Pavia, Notre Dame (*colloquium*), MSRI
- 2008 University of Utah, Universidade Federal de Pernambuco–Recife, IMPA–Rio de Janeiro, University of Arizona (*colloquium*), University of Utah, University of Illinois at Chicago, University of Utah.
- 2007 University of Utah, Notre Dame University, University of Illinois at Chicago, University of Utah, University of Chicago, Purdue University.
- 2006 Università di Roma Due–Tor Vergata, Università di Roma Tre, Università di Milano, Università di Genova, Università di Ferrara, University of Michigan
- 2005 Queen’s University, Harvard University, Columbia University, Institute for Advanced Study (*member seminar*), Princeton University, CIMAT–Guanajuato, CINVESTAV (*colloquium*), Università di Milano, SUNY–Stony Brook, Ohio State University (*colloquium*), Texas A&M University (*colloquium*), University of Utah, University of Utah (*colloquium*), University of California–Santa Barbara (*colloquium*), Johns Hopkins University, University of Pittsburgh (*colloquium*), University of Kansas (*colloquium*), University of Illinois at Urbana-Champaign (*colloquium*), University of Notre Dame (*colloquium*)
- 2004 University of Illinois at Urbana-Champaign, University of Michigan, Northwestern University, University of Wisconsin–Madison, University of Tokyo, Kyoto University
- 2003 Johns Hopkins University, Università di Genova, University of Michigan
- 2002 University of Michigan, Università di Genova, Johns Hopkins University, University of Michigan
- 1999 Hong Kong University
- 1998 Università di Milano, Università di Pavia

LECTURE SERIES &
MINI-COURSES

1. Lectures on “Arc spaces and singularities in the minimal model program” (4 lectures), Conference “Young researchers in Singularity Theory,” Artin Approximation and Singularity Theory 2015, CIRM, Luminy, February 2015
2. Lectures on “Motivic integration” (3 lectures), Graduate and Postdoc Summer School on “Motivic Invariants and Singularities,” Mini-course on “Motivic integration,” Center for Mathematics at the University of Notre Dame, May 2013
3. Lectures on “The log canonical threshold” (2 lectures), School on “Birational Automorphisms of Varieties of General Type,” Freiburg, July 2011
4. Lectures on “The ACC conjecture for log canonical thresholds” (8 lectures), School on the Minimal Model Program and Shokurov’s ACC Conjecture, Università di Trento, July 2010
5. Lectures on “Shokurov’s ACC conjecture for log canonical thresholds” (6 lectures), Institut Mathématique de Jussieu, June 2009

6. Lectures on “Deformation rigidity of Fano varieties” (3 lectures), Rencontre de Géométrie Algébrique et Géométrie Complexe, Centre International de Rencontres Mathématiques, Luminy, January 2009
7. Lectures on “Relative motivic integration, MacPherson’s transformation, and stringy Chern classes” (5 lectures), VIGRE Mini-Course on “Jet schemes and motivic integration,” University of Utah, May 2005

ORGANIZATIONAL
ACTIVITIES

1. FRG Summer School and Workshop on “Higher dimensional algebraic geometry,” University of Utah, July 2016 (with M. Mustata and K. Schwede)
2. Conference “Local and global methods in algebraic geometry” in honor of Lawrence Ein’s 60th birthday, University of Illinois at Chicago, May 2016 (with N. Budur, R. Docampo, and K. Tucker)
3. RTG Undergraduate Summer Course on “Birational Geometry of Complex Surfaces,” University of Utah, May 2016 (with C. Hacon)
4. FRG Mini-Workshop on “Unramified cohomology, derived categories, and rationality,” University of Utah, February 2016 (with C. Hacon)
5. AMS Summer Research Institute in Algebraic Geometry, University of Utah, July 2015 (with B. Hassett, M. Mustață, M. Olsson, M. Popa, and R. Thomas)
6. Graduate Student Boot Camp in Algebraic Geometry, University of Utah, July 2015 (with I. Coskun, A. Gibney, and M. Lieblich)
7. FRG Mini-Workshop on “Foliations with effective anti-canonical bundle,” University of Utah, December 2014
8. FRG Mini-Workshop on “Cremona groups,” University of Utah, November 2013
9. Western Algebraic Geometry Symposium (WAGS), University of Utah, October 2012 (with C. Hacon)
10. AIM Program on “ACC and termination of flips,” Palo Alto, 2012 (with C. Hacon)
11. AMS Sectional Meeting, Special Session in Algebraic Geometry, University of Utah, October 2011 (with C. Hacon)
12. MRC 2010 Program on “Birational geometry and moduli spaces,” Snowbird, June 2010 (with D. Abramovich, I. Coskun, and A. Gibney)
13. VIGRE Mini-Course on “Moduli spaces and birational geometry,” University of Utah, June 2010 (with A. Bertram)
14. Baby Algebraic Geometry Seminar (group reading course for graduate students), University of Utah, Fall 2007, Fall 2009, Spring 2012, Spring 2015
15. Western Algebraic Geometry Seminar (WAGS), University of Utah, November 2006 (with A. Bertram and C. Hacon)
16. Special Topics in Algebraic Geometry Seminar, University of Michigan, Fall 2003, Winter 2004 and Fall 2004 (with T. Nevins and B. Uribe)

OUTREACH
ACTIVITIES

- REU Independent Project supervisor, University of Utah, Spring–Summer 2012 and Spring–Summer 2016
- Talk at the High School Summer Program, University of Utah, Summer 2014
- Science Day at the University of Utah, workshop addressed to high school students, November 2011
- Undergraduate Colloquia, University of Utah, September 2011 and October 2009

Math Circle, series of lectures (4 hours) to high school students, University of Utah, November 2009

Early Research Direction talk, University of Utah, January 2007

SUPERVISING &
MENTORING

REU students Scott Neville (2016)
 Isabelle Scott (2012)
 Michael Shrieve (2012)

honor thesis Isabelle Scott (2013)

Ph.D. students Ziwen Zhu (2016–present)
 Chung Ching Lau (2012–2017)
 Keyvan Yaghmayi (2011–2017)
 Davide Fusi (2007–2012)

postdocs Yu-Chao Tu (2014–2017, FRG postdoc)
 Yi Zhu (2012–2015)
 Kevin Tucker (2010–2011, NSF postdoc)
 Roi Docampo (2009–2012)

visiting scholars Joonyeong Won (03/14–04/14)
 Olivier Benoist (09/12–11/12)

TEACHING

2005–present Instructor, University of Utah

- Introduction to Modern Algebra I (Math 5310), Fall 2017
- Foundations of Analysis II (Math 3220), Spring 2017
- Topics in Algebraic Geometry (Math 7800), Fall 2016
- Foundations of Analysis I (Math 3220), Fall 2016
- Foundations of Analysis II (Math 3220), Spring 2016
- REU Introduction to Tropical Geometry (Math 4800), Spring 2015
- Introduction to Modern Algebra I (Math 5310), Fall 2014
- Foundations of Analysis II (Math 3220), Fall 2014
- Topics in Algebraic Geometry (Math 7800), Spring 2014
- Linear Algebra (Math 2270), Spring 2014
- Introduction to Modern Algebra I (Math 5310), Fall 2013
- Topics in Algebraic Geometry (Math 7800), Spring 2012
- REU Introduction to Tropical Geometry (Math 4800), Fall 2011
- Foundations of Analysis I (Math 3210), Fall 2011
- Calculus III (Math 2210), Spring 2011
- Foundations of Analysis I (Math 3210), Spring 2010
- Topics in Algebraic Geometry (Math 7800), Spring 2010
- Foundations of Analysis I (Math 3210), Fall 2008
- Introduction to Algebraic Geometry I (Math 6130), Fall 2008
- Foundations of Analysis I (Math 3210), Spring 2008
- Introduction to Modern Algebra I (Math 5310), Fall 2007
- Introduction to Algebraic Geometry II (Math 6140), Spring 2007
- Topics in Algebraic Geometry (Math 7800), Fall 2006

- 2002–2005 Instructor, University of Michigan
- Introduction to Topology (Math 490), Winter 2005
 - Introduction to Topology (Math 590), Fall 2004
 - Linear Algebra (Math 217), Fall 2003
 - Introduction to Modern Algebra (Math 412), Winter 2003
 - Calculus I (Math 115), Fall 2002
- 2000–2002 Teaching Assistant, University of Illinois at Chicago
- Calculus I (Math 180), 2001-2002
 - Calculus II (Math 181), 2000-2001
- 1996–1998 Teaching Assistant, Università dell’Insubria
- Geometria IV, Spring 1998
 - Geometria III, Fall 1997
 - Geometria II, Spring 1996

COMMITTEE WORK

department

University of Utah

- Associate Department Chair, 2017–present
- Chair of the Mathematics Education Committee, 2017–present.
- Ex-officio member of the Executive Committee, 2017–2018.
- Ex-officio member of the Hiring Committee, 2017–2018.
- Member of the selection committee for the Trevor James McMinn Professorship in Mathematics, 2017
- Chair of the Hiring Committee, 2016–2017
- College of Science Tenure-line Academic Senate faculty representative, 2016–2019
- Graduate Research Fellowship committee member, 2016
- Coordinator of Foundation of Analysis (Math 3210 & 3220), 2015–present
- Member of the Executive Committee, 2014–2016
- Coordinator of Linear Algebra (Math 2270) and Differential Equations (Math 2280), 2014–2015
- Instructor (postdoc) Hiring Committee, March 2008–2009, 2010–2012, 2013–2014
- Graduate Hiring Committee (co-chair), March 2009–2010
- Colloquium Chair, March 2006–2008, 2009–2010

thesis defense

Alexander Stathis (University of Illinois at Chicago, April 2017), Chung Ching Lau (University of Utah, April 2017), Keyvan Yaghmahi (University of Utah, April 2017), Yuan Wang (University of Utah, March 2017), Thomas Goller (University of Utah, March 2017), Honglu Fan (University of Utah, January 2017), Drew Johnson (University of Utah, April 2016), Alan Watson (University of Utah, April 2016), Jack Jeffries (University of Utah, March 2015), Cristian Martinez (University of Utah, March 2015), Dylan Zvick (University of Utah, May 2014), Cesar Lozano (University

		of Illinois at Chicago, March 2014), Veronika Ertl (University of Utah, February 2014), Davide Fusi (University of Utah, March 2012), Stefano Urbinati (University of Utah, February 2012), Nguyễn Quang Minh (University of Michigan, December 2004), Nero Budur (University of Illinois at Chicago, April 2003)
	oral exam	Dapeng Mu (April 2017), Joaquin Moraga (December 2016), Ziwen Zhu (September 2016), Javier Carvajal-Rojas (March 2016), Andrew Byd- lon (October 2015), Chuanhao Wei (October 2015), Chung Ching Lau (September 2015), Alan Watson (November 2014), Honglu Fan (March 2014), Keyvan Yaghmayi (February 2014), Feng Qu (February 2014), Drew Johnson (November 2013), Yuan Wang (October 2013), Veronika Ertl (November 2011), Kenneth Jeffries (November 2011), Cristian Mar- tinez (October 2011), Yuchen Zhang (March 2011), Xiaodong Jiang (Novem- ber 2010), Davide Fusi (April 2010), Stefano Urbinati (April 2010), Qu Feng (February 2010), Dylan Zwick (August 2009), Erika Meucci (April 2008)
SERVICE	editorial	<ul style="list-style-type: none"> – Editor of the Journal de l'École polytechnique (2013–present) – Editor of the Proceedings of the AMS Summer Research Institute in Algebraic Geometry, Salt Lake City, 2015 (with B. Hassett, M. Mustața, M. Olsson, M. Popa, and R. Thomas) – Editor of the Proceedings of the Bootcamp for the AMS Summer Research Institute in Algebraic Geometry, Salt Lake City, 2015 (with I. Coskun, A. Gibney, and M. Lieblich) – Editor of the Proceedings of the conference “Local and global meth- ods in algebraic geometry” in honor of Lawrence Ein’s 60th birthday, Chicago, 2016 (with N. Budur, R. Docampo, and K. Tucker)
	referee	Advances in Geometry, Advances in Mathematics, Advanced Studies in Pure Mathematics, Algebraic Geometry, American Journal of Mathemat- ics, Annales de l’Institut Fourier, Annales scientifiques de l’École normale supérieure, Annals of Mathematics, Bulletin de la Société Mathématique de France, Canadian Mathematical Bulletin, Central European Journal of Mathematics, Commentarii Mathematici Helvetici, Communications in Algebra, Compositio Mathematica, Comptes Rendus de l’Académie des sciences, Documenta Mathematica, Duke Mathematical Journal, Euro- pean Journal of Mathematics, Geometriae Dedicata, Indiana University Mathematical Journal, International Journal of Mathematics, Interna- tional Mathematics Research Notices, Journal für die reine und ange- wandte Mathematik, Journal of Algebra, Journal of Algebraic Geome- try, Journal of Differential Geometry, Journal of Pure and Applied Al- gebra, Mathematische Annalen, Mathematical Proceedings of the Cam- bridge Philosophical Society, Mathematical Research Letters, Mathema- tische Zeitschrift, Michigan Mathematical Journal, Proceedings of the American Mathematical Society, Publications Mathématiques de l’IHÉS, Tohoku Mathematical Journal, Transactions of the American Mathemat- ical Society, conference proceedings
	grant reviewer	<ul style="list-style-type: none"> – European Research Council – Fellowship Programme INdAM-Cofund – National Science Foundation – National Security Agency

- Research Foundation – Flanders, FWO
- U.S. Civilian Research & Development Foundation

reviewer Mathematical Reviews, Zentralblatt MATH

PROFESSIONAL American Mathematical Society
ASSOCIATION