

Penn State Greater Allegheny
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Education

Purdue University	Mathematics	Ph. D.	August 2010
National Taiwan Normal University	Mathematics	M. S.	June 2000
National Tsing Hua University	Mathematics	B. S.	June 1997

Professional Appointments

Penn State Greater Allegheny	Assistant Prof.	July 2014-current
Smith College	Visiting Ass. Prof.	July 2013-June 2014
University of Notre Dame	Visiting Scholar	Summer 2011
University of California, Riverside	Visiting Ass. Prof.	September 2010-June 2013
Hung-Wen High School, Taiwan	Math Teacher	July 2001-June 2003
Academia Sinica, Taiwan	Research Trainee	July 2000-June 2001

Research Interests

Commutative Algebra, Algebraic Geometry, and Combinatorics

Publications and Preprints

1. (With Paolo Mantero) Hypergraphs with high projective dimension and 1-dimensional Hypergraphs. Submitted.
2. Cohen-Macaulayness of Rees Algebra of Modules, Communications in Algebra, 44,(2016) 3673-3682
3. (With Paolo Mantero) Hypergraphs and Projective Dimension of Square-Free Monomial Ideals, Communications in Algebra. 44, (2016) 1671-1694.
4. (With Huy Tài Hà) Normal 0-1 polytopes, SIAM J. Discrete Math. Vol. 1 No. 1, (2015) 210-223.
5. (With Louiza Fouli) Rees Algebras of Square-Free Monomial Ideals, Journal of Commutative Algebra, Vol. 7, No. 1, (2015), 25-54.
6. (With Claudia Polini) Rees Algebras of Truncations of Complete Intersections, Journal of Algebra Vol. 410 (2014) 36-52.
7. Cohen-Macaulayness of Rees Algebras of Diagonal Ideals, Journal of Commutative Algebra, Vol. 6, No. 4, (2014), 3561-586.
8. (With Jason McCullough) Hypergraphs and Regularity of Square-Free Monomial Ideals, International Journal of Algebra and Computation Vol. 23, No. 7 (2013) 1573-1590.
9. Rees Algebras of Diagonal Ideals, Journal of Commutative Algebra, Vol. 5, No. 3, (2013), 329-475.
10. Rees Algebras of Diagonal Ideals, Ph. D. Thesis, Advisor: Professor Bernd Ulrich.

Awards and Grants

1. MSRI workshops travel grant	MSRI, Berkeley	2012, 2013
2. AMS-MRC research travel grant	U. of Notre Dame	2012
3. AWM-NSF mentoring travel grant	U. of Notre Dame	2011, 2012
4. Bilsland Dissertation Fellowship	Purdue University	2010
5. Purdue Research Foundation Fellowship	Purdue University	2009-2010
6. Purdue Research Foundation Summer Fellowship	Purdue University	2006, 2008
7. NSF Summer Research Grant	Purdue University	2005, 2009
8. Research Trainee Fellowship	Academia Sinica, Taiwan	2000-2001
9. Award for the highest academic performance	National Taiwan Normal University	1999

Invited Workshop Participant with Funding

1. Summer Graduate Student Workshop, Toric Varieties	MSRI, Berkeley	2009
2. MRC, Computational Algebra and Convexity Participant	Snowbird	2008
3. Valuation Theory and Integral Closures Workshop Participant	Ottawa	2006
4. Monomial Resolutions and Hilbert Functions Workshop Participant	Cornell University	2006
5. IMA Graduates Student Summer Program, Coding and Cryptography	U. of Notre Dame	2004

Invited Conference and Seminar Talks

1. AMS-Special Section	Loyola University	Oct. 2015
2. Algebra Seminar	Tulane University	Mar. 2015
3. AMS-Special Section	Georgetown University	Mar. 2014
4. AMS-Special Section	SFO State University	Oct. 2014
5. Route 81 Conference	Syracuse University	Oct. 2013
6. Union College Conference	Union College	Oct. 2013
7. AMS-Special Section	Temple University	Oct. 2013
8. AWM Research Symposium	Santa Clara University	Mar. 2013
9. Representation Theory, Homological Algebra, and Free Resolutions	MSRI	Feb. 2013
10. Algebra Seminar	Tulane University	Nov. 2012
11. AMS Special Section	University of Arizona	Oct. 2012
12. AMS Special Section	Tulane University	Oct. 2012
13. Midwest Commutative Algebra Conference	University of Kentucky	Jun. 2012
14. Commutative Algebra and Algebraic Geometry Seminar	University of Notre Dame	Mar. 2012

15. Commutative Algebra Seminar	Purdue University	Feb. 2012
16. Department of Mathematical Colloquium	New Mexico State University	Nov. 2011
17. Department of Mathematical Colloquium	Reed College	Oct. 2011
18. Commutative Algebra Seminar	Purdue University	Sept. 2011
19. Commutative Algebra and Algebraic Geometry Seminar	University of Notre Dame	Aug. 2011
20. Department of Mathematical Science Colloquium	IUPUI	Feb. 2010
21. Joint Mathematics Meeting Special Session	San Francisco	Jan. 2010
22. Algebra Seminar	Indiana University	Nov. 2010
23. AMS Special Session	Boca Raton, FL	Oct. 2009
24. AMS Special Session	Waco, TX	Oct. 2009
25. AMS Special Session	Penn. State Univ.	Oct. 2009
26. Commutative Algebra Seminar	UIUC	Oct. 2009
27. Commutative Algebra and Algebraic Geometry Seminar	University of Notre Dame	Mar. 2009
28. Commutative Algebra Seminar	Purdue University	Jan. 2009
29. Joint Mathematics Meeting Special Session	Washington, D.C.	Jan. 2009

Teaching Experience

1. Calculus I, Instructor	Penn State, GA	2014F, 15F
2. Calculus II, Instructor	Penn State, GA	2014F, 15S
3. Calculus III, Instructor	Smith College	2014S
4. Intro. Discrete Mathematics, Instructor	Smith College	2014S
5. Calculus I, Instructor	Smith College	2013F
6. Topics in Number Theory, Instructor	Smith College	2013F
7. Modern Algebra, Instructor	UC, Riverside	2013S
8. Senior Reading Course, Instructor	UC, Riverside	2012F
9. First-Year Calculus II, Instructor	UC, Riverside	2012W, S, F, 13W
10. Honor First-Year Calculus II, III, Instructor	UC, Riverside	2011F, 12W
11. Intro. Theory of Numbers, Instructor	UC, Riverside	2012S
12. Geometry, Instructor	UC, Riverside	2011F
13. First-Year Calculus I, Instructor	UC, Riverside	2011S, 13W
14. First-Year Calculus III, Instructor	UC, Riverside	2011S, 12F, 13S
15. Ordinary Diff. Equations, Instructor	UC, Riverside	2010F, 11W
16. Intro. College Math, Instructor	UC, Riverside	2010F, 11W
17. Algebra and Trigonometry I, Instructor	Purdue University	2008
18. Plane Analytic Geometry and Calculus II, Recitation Instructor	Purdue University	2007
19. Linear Algebra and Differential Equations, Recitation Instructor	Purdue University	2005

Professional Development Workshops Attended

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| 1. Western Region Faculty Development OVPCC Event
Teaching and Learning with Technology Penn State University | Penn State
Beaver | 2014 |
| 2. Faculty Learning Communities
Monthly meeting discussing flip classroom | Smith College | 2013-2014 |
| 3. Preparing Future Faculty
Weekly meeting on different topics of faculty role in the department or college or university | Purdue University | 2009 |
| 4. Teaching Workshops
Sequences of meetings on teaching different kinds of math classes | Purdue University | 2005-2008 |

Collaborators & Other Affiliations

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| 1. Postdoctoral Sponsors | David Rush | University of California, Riverside |
| 2. Collaborators, Mentor | Claudia Polini | University of Notre Dame |
| 3. Collaborators | Louiza Fouli | New Mexico State University |
| 4. Collaborators | Jason McCullough | Rider University |
| 5. Collaborators | Huy Tài Hà | Tulane University |
| 6. Collaborators | Paolo Mantero | University Of California, Riverside |
| 7. Ph. D. thesis advisor | Bernd Ulrich | Purdue University |
| 8. Master thesis advisor | W-C Chi, Jing Yu. | National Taiwan Normal University |
| 9. Master thesis advisor | L-C Hisa | National Central University |

Professional Activities

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| Co-organizer | (with Tai Ha and Augustine O'Keefe) Southeastern Spring Sectional Meeting of the AMS, special section: Combinatorial and Computational Algebra, 2016 |
| Co-organizer | (with Paolo Mantero) Western Fall Sectional Meeting of the AMS, special section: Commutative Algebra and its Interaction with Algebraic Geometry and Combinatorics, 2013 |
| Co-organizer | (with Huy Tài Hà) JMM at San Diego, AMS special section: Commutative Algebra and Algebraic Geometry, 2013 |
| Co-organizer | Topic of Commutative Algebra Seminar, University of California, Riverside, 2010-2013 |
| Reviewer | Zentralblat, since 2011, http://zbmath.org/?q=rv:Kuei-Nuan+Lin , Mathematical Reviews, since 2015 |
| Referee | J. of Comm. Alg., Turkish J. of Math., Comm. Alg. 2010-current |
| Organizer | Graduate Student Commutative Algebra Seminar, Purdue University, 2009-2010 |
| Co-organizer | (with Bernd Sturmfels) Graduate Student Seminar, MSRI, April 2007 |

Mentor and Service Activities

Coach Putnam Team for University of California, Riverside, 2011, 2012
 Judge Undergraduate Research and Poster Symposium, Purdue University, 2009
 Mentor Association for Women in Mathematics, since 2011.
 Mentor SMath, since 2013.

Selected Conferences Attended with Travel Grant Awards

1. Commutative Algebra-Algebraic Geometry in the Southeast (Present poster)	U of South Carolina	Nov. 2013
2. Joint Workshops on Commutative Algebra and Cluster Algebra (Present poster)	MSRI, Berkeley	Aug. 2012
3. The Texas Algebraic Geometry Symposium (Present poster)	Texas A&M	Apr. 2012
4. Commutative Algebra and Representation Theory	Syracuse University	Apr. 2012
5. Southwest Local Algebra Meeting	TTU, TX	Mar. 2012
6. Midwest Commutative Algebra and Geometry Conference	UIUC, IL	Nov. 2011
7. Midwest Commutative Algebra and Geometry Conference (Present Poster)	Purdue, IN	May 2011
8. Joint Mathematics Meeting	San Francisco, CA	Jan. 2010
9. Summer Graduate Student Workshop, Toric Varieties	MSRI, Berkeley	Jun. 2009
10. The 2nd Bluegrass Algebra Conference	U of Kentucky	Mar. 2009
11. Joint Mathematics Meeting	Washington, D.C.	Jan. 2009
12. MRC, Computational Algebra and Convexity	Snowbird, UT	Jun. 2008
13. Conference in Honor of Robin Hartshorne	UIC, IL	Apr. 2008
14. Advances in Algebra and Geometry	MSRI, Berkeley	Apr. 2007
15. Valuation Theory and Integral Closures	Ottawa, Canada	Jul. 2006
16. Monomial Resolutions and Hilbert Functions	Cornell University	May. 2006
17. MAGIC 05	U of Notre Dame	Oct. 2005
18. Conference in Honor of Phillip Griffith	U of Illinois	Sept. 2005
19. 30th Arkansas Spring Lecture Series	U of Arkansas	Apr. 2005
20. IMA Graduates Student Summer Program, Coding and Cryptography	U of Notre Dame	Jun. 2004

Memberships

American Mathematical Society, since 2004
 Association for Women in Mathematics, since 2004