

Chelsea Walton

CONTACT INFORMATION	<i>Work Address :</i> Department of Mathematics The University of Illinois at Urbana-Champaign Urbana, IL 61801	<i>Email and Website:</i> notlaw@illinois.edu https://faculty.math.illinois.edu/~notlaw/
PERSONAL INFORMATION	Birth date and location: July 11, 1983; Detroit, Michigan. Citizenship: USA	
EMPLOYMENT	The University of Illinois at Urbana-Champaign Urbana-Champaign, Illinois. Associate Professor (with tenure) Aug. 2018 - present Brad and Karen Smith Professorial Scholar Aug. 2018 - July 2021 Visiting Associate Professor Jan. - July 2018 Temple University July 2015 - June 2018 Philadelphia, Pennsylvania. Selma Lee Bloch Brown Early Career Assistant Professor Massachusetts Institute of Technology Sept. 2012 - June 2015 Cambridge, Massachusetts. C.L.E. Moore Instructor/ NSF Postdoctoral Fellow Mathematical Sciences Research Institute (MSRI) Jan. 2013 - May 2013 Berkeley, California. (NSF) Postdoctoral Fellow University of Washington Sept. 2011 - Aug. 2012 Seattle, Washington. NSF Postdoctoral Fellow	
EDUCATION	University of Michigan Aug. 2011 Ph.D in Mathematics, Rackham Graduate School, Ann Arbor, Michigan. Advisor: Professor J. Tobias Stafford; Co-Advisor: Professor Karen E. Smith. University of Manchester Sept. 2007 - Aug. 2008, Jan. - Aug. 2009 - 2011 Visiting Student, Mathematics Department, Manchester, England. University of Michigan June 2007 M.S. in Pure Mathematics, Rackham Graduate School, Ann Arbor, Michigan. Michigan State University May 2005 B.S. with High Honors in Mathematics, Honors College, East Lansing, Michigan.	
RESEARCH INTERESTS	Hopf algebras, Noncommutative Algebra, Noncommutative Algebraic Geometry, Noncommutative Invariant Theory, Quantum Groups, and Representation Theory.	
GRANTS AND FELLOWSHIPS	Sloan Research Fellowship Sept. 2017 - Aug. 2019 Alfred P. Sloan Foundation, New York, NY, USA. - \$60,000.00 USD	

National Science Foundation (NSF) support–
(conference grants listed under “Conferences, Workshops co-organized”)

NSF Algebra and Number Theory grants

National Science Foundation, USA.

- Grant No. DMS-1663775 \$161,973.00 USD Aug. 2017 - July. 2020
- Transferred to U. Illinois Urbana-Champaign Grant No. DMS-1903192.
- Grant No. DMS-1401207, \$148,445.00 USD Sept. 2014 - Aug. 2017
- Undergraduate Research, Supplement No. DMS-1519286, \$5,000.00 USD
- Transferred to Temple U. Grant No. DMS-1550306.

NSF Math. Sciences Postdoctoral Fellowship Aug. 2011 - July 2014

National Science Foundation, USA.

- Grant No. DMS-1102548, \$135,000.00 USD

HONORS AND
AWARDS

Andre Lichnerowicz Prize in Poisson geometry July 2018
Int'l Conf. on Poisson Geometry in Mathematics and Physics, Toronto, Canada.

Real McCoy award for Mathematics Sept. 2017
Detroit Area Pre-College Engineering Program (DAPCEP), Detroit, Michigan.

Recent Alumni Award Mar. 2016
College of Natural Science, Michigan State University, E. Lansing, Michigan.

Infinite Kilometer (Infinite K) Award for outreach Jan. 2013
School of Science, Massachusetts Institute of Technology, Cambridge, Mass.

Wirt and Mary Cornwell Prize in Mathematics Apr. 2011
University of Michigan, Ann Arbor, Michigan.

RESEARCH
PUBLICATIONS

- 28.** A. Chirvasitu, C. Walton, and X. Wang, Gelfand-Kirillov dimension of cosemisimple Hopf algebras, <https://arxiv.org/abs/1807.01894>, to appear in *Proc. Amer. Math. Soc.*
- 27.** C. Walton and J. Zhang, On the quadratic dual of the Fomin-Kirillov algebras, <https://arxiv.org/abs/1806.09263>, to appear in *Trans. Amer. Math. Soc.*
- 26.** C. Walton, X. Wang and M. Yakimov, The Poisson geometry of the 3-dimensional Sklyanin algebras, <https://arxiv.org/abs/1704.04975>, to appear in *Proc. Lond. Math. Soc.*
- 25.** Z. Cline, A. Estornell, C. Walton, and M. Wynne, PBW deformations of quadratic monomial algebras, <https://arxiv.org/abs/1805.06947>, to appear in *Comm. Algebra*.
- 24.** K. Chan, E. Kirkman, C. Walton, and J. Zhang, McKay correspondence for semisimple Hopf actions on regular graded algebras, I, *J. Algebra* 508 (2018), pp. 512–538.
- 23.** C. Walton and S. Witherspoon, PBW deformations of braided products, *J. Algebra* 504 (2018), pp. 536–567.
- 22.** A. Mejía Castaño, S. Montgomery, S. Natale, M. D. Vega, and C. Walton, Cocycle deformations and Galois objects for semisimple Hopf algebras of dimension p^3 and pq^2 , *J. Pure Appl. Algebra* 222, no. 7, (2018) pp. 1643–1669.

21. K. Chan, E. Kirkman, C. Walton, and J. Zhang, McKay correspondence for semisimple Hopf actions on regular graded algebras, II, <http://arxiv.org/abs/1610.01220>, to appear in *J. Noncom. Geom.*
20. A. Chirvasitu, C. Walton, and X. Wang, On quantum groups associated to a pair of preregular forms, <http://arxiv.org/abs/1605.06428>, to appear in *J. Noncom. Geom.*
19. D. J. Reich and C. Walton, Explicit representations of 3-dimensional Sklyanin algebras associated to a point of order 2, *Involve, a Journal of Mathematics* 11-4 (2018), pp. 585–608.
18. P. Etingof and C. Walton, Finite dimensional Hopf actions on algebraic quantizations, *Algebra & Number Theory* 10, no. 10 (2016), pp. 2287–2310.
17. J. Cuadra, P. Etingof, and C. Walton, Finite dimensional Hopf actions on Weyl algebras, *Adv. Math.* 302 (2016), pp. 25–39.
16. P. Etingof and C. Walton, Finite dimensional Hopf actions on deformation quantizations, *Proc. Amer. Math. Soc.* 145 (2017), pp. 1917–1925.
15. S. J. Sierra and C. Walton, Maps from the enveloping algebra of the positive Witt algebra to regular algebras, *Pacific J. Math* 284, no. 2 (2016), pp. 475–509.
14. P. Etingof, D. Goswami, A. Mandal, and C. Walton, Hopf coactions on commutative algebras generated by a quadratically independent comodule, *Comm. Algebra* 45, no. 8 (2017), pp. 3410–3412.
13. C. Walton and X. Wang, On quantum groups associated to non-Noetherian regular algebras of dimension 2, *Math Z.* 284, no. 1, (2016), pp. 543–574.
12. K. Chan, E. Kirkman, C. Walton, and J. J. Zhang, Quantum binary polyhedral groups and their actions on quantum planes, *J. Reine Angew. Math* 2016, no. 719 (2016), pp. 211–252.
11. P. Etingof and C. Walton, Pointed Hopf actions on fields, II, *J. Algebra* 460 (2016), pp. 253–283.
10. R. Kinser and C. Walton, Actions of some pointed Hopf algebras on path algebras of quivers, *Algebra & Number Theory* 10, no. 1 (2016), pp. 117–154.
9. J. Cuadra, P. Etingof, and C. Walton, Semisimple Hopf actions on Weyl algebras, *Adv. Math.* 282 (2015), pp. 47–55.
8. P. Etingof and C. Walton, Pointed Hopf actions on fields, I, *Transform. Groups* 20, no. 4 (2015), pp 985–1013.
7. C. Walton and S. Witherspoon, Poincaré-Birkhoff-Witt deformations of smash product algebras from Hopf actions on Koszul algebras, *Algebra & Number Theory* 8, no. 7 (2014), pp. 1701–1731.
6. S. J. Sierra and C. Walton, The universal enveloping algebra of the Witt algebra is not noetherian, *Adv. Math.* 262 (2014), pp. 239–260.
5. K. Chan, C. Walton, and J. J. Zhang, Hopf actions and Nakayama automorphisms, *J. Algebra* 409 (2014), pp. 26–53.
4. P. Etingof and C. Walton, Semisimple Hopf actions on commutative domains, *Adv. Math.* 251C (2014), pp. 47–61.

3. K. Chan, C. Walton, Y. Wang, and J. J. Zhang, Hopf actions on filtered regular algebras, *J. Algebra* 397, no. 1 (2014), pp. 68–90.
2. C. Walton, Representation theory of three-dimensional Sklyanin algebras, *Nuclear Physics* 860, no. 1 (2012), pp. 167–185.
1. C. Walton, Degenerate Sklyanin algebras and generalized twisted homogeneous coordinate rings, *J. Algebra* 322, no. 7 (2009), pp. 2508–2527; Corrigendum, 356 , no. 1 (2012), pp. 275–282.

EXPOSITORY
PUBLICATIONS

1. C. Walton, An Invitation to Noncommutative Algebra, <https://arxiv.org/abs/1808.03172>, to appear in the Springer volume: *A Celebration of EDGE*.

PREPRINTS

3. R. Laugwitz and C. Walton, Braided commutative algebras over quantized enveloping algebras, <https://arxiv.org/abs/1901.08980>, *submitted*.
2. A. Conner, E. Kirkman, W. F. Moore, and C. Walton, Noncommutative Knörrer periodicity and noncommutative Kleinian singularities, <https://arxiv.org/abs/1809.06524>, *submitted*.
1. C. Walton, X. Wang and M. Yakimov, Poisson geometry and representations of PI 4-dimensional Sklyanin algebras, <https://arxiv.org/abs/1802.06487>, *submitted*.

INVITED AND
CONTRIBUTED
RESEARCH TALKS

- Plenary Lecture, AMS Western Section Meeting** Oct. 2016
 “On Quantum Symmetry”, U. Denver, Denver, Colorado.
- On the quadratic dual of the Fomin-Kirillov algebras**
 Algebra seminar, U. Waterloo, Waterloo, Canada. Nov. 2018
 AMS section meeting, Northeastern U., Boston, Mass. Apr. 2018
- On braided commutative algebras**
 Mathematical Physics seminar, Perimeter Institute, Waterloo, Canada. Nov. 2018
 AMS section meeting, San Francisco St. U., San Francisco, California. Oct. 2018
- On Quantum Symmetry/ Hopf actions (survey)**
 Geometric and Categorical Aspects of CFTs Sept. 2018
 CMO-BIRS (research station), Oaxaca, Mexico.
- Department Colloquium, Northern Illinois U., DeKalb, Illinois. Apr. 2018
 Department Colloquium, Purdue U., West Lafayette, Indiana. Jan. 2018
 Annual Math Conference, Miami U., Oxford, Ohio. Sept. 2017
 Department Colloquium, U. Washington, Seattle, Wash. Mar. 2017
 Department Colloquium, DePaul U., Chicago, Il. Feb. 2017
 Department Colloquium, Bryn Mawr, Bryn Mawr, Penn. Jan. 2017
 Department Colloquium, Emory U, Atlanta, Georgia. Jan. 2017
 Algebra Seminar, U. Illinois Urbana-Champaign, Urb.-Champ., Il. Dec. 2016
 Department Colloquium, Louisiana State U., Baton Rouge, Louis. Nov. 2016
 Modular Categories: Representations, Classification, and Applications Aug. 2016
 CMO-BIRS (research station), Oaxaca, Mexico.
- Department Colloquium, U. Iowa, Iowa City, Iowa. Dec. 2015
 Department Colloquium, UCSB, Santa Barbara, Calif. May 2015
 Grad. Student Conf. (GSCAGT), Temple U., Philadelphia, Penn. May 2015
 Expository Talk, Maurice Auslander Conference, Woods Hole, Mass. May 2015

Algebra section, SACNAS, Los Angeles, California.	Oct. 2014
Math. Forschungsinstitut Oberwolfach, Oberwolfach, Germany.	May 2014
Algebra Seminar, Northeastern U., Boston, Massachusetts.	Oct. 2013
Poisson geometry of PI Sklyanin algebras	
Math. Forschungsinstitut Oberwolfach, Oberwolfach, Germany.	May 2018
Noncommutative Algebra meeting, U. Washington, Seattle, Wash.	Mar. 2018
Joint Mathematics Meeting: Noncom. Alg. session, San Diego, Calif.	Jan. 2018
GAP XV: Quantization, Penn. State University, State College, Penn.	Aug. 2017
Linking noncommutative rings and algebraic geometry workshop ICMS, Edinburgh, Scotland.	June 2017
Gone Fishing conference, Notre Dame, Notre Dame, Indiana.	May 2017
Cocycle deformations of semisimple Hopf algebras	
Joint Mathematics Meeting: AWM workshop, San Diego, Calif.	Jan. 2018
AMS section meeting, Washington St. U., Pullman, Wash.	Apr. 2017
Deformation Theory seminar, U. Penn, Philadelphia, Penn.	Feb. 2017
Universal enveloping algebra of the Witt algebra is not noetherian	
AMS section meeting, U. Calif. Riverside, Riverside, Calif.	Nov. 2017
Seattle Noncommutative Algebra Day, Seattle, Washington.	Aug. 2015
AMS section meeting, Temple U., Philadelphia, Pennsylvania.	Oct. 2013
Algebra seminar, U. California San Diego, San Diego, California.	Apr. 2013
Algebra seminar, U. Oregon, Eugene, Oregon.	Apr. 2013
Noncommutative McKay Correspondence	
Quantum Symmetries: Subfactors and Planar Alg. conf., Maui, Hawaii.	July 2017
Joint Mathematics Meeting: Noncom. Alg. session, Atlanta, Georgia.	Jan. 2017
Generalized Geometry Conf., Clay Math Inst., Oxford, England.	Dec. 2016
No Quantum Symmetry	
Joint Mathematics Meeting: Quantum Groups session, Atlanta, Geor.	Jan. 2017
Lie Theory seminar, National Univ. of Córdoba, Córdoba, Argentina.	July 2016
US-Mexico conf. on Representation Theory, Categorification, and Noncommutative Algebra, U. Southern California, Los Angeles, Calif.	June 2016
PBW deformations of braided products	
Algebra Seminar, Louisiana State U., Baton Rouge, Louis.	Nov. 2016
Joint Mathematics Meeting: Noncom. Alg. session, Seattle, Wash.	Jan. 2016
On quantum groups associated to a pair of preregular forms	
AMS section meeting, Bowdoin College, Bowdoin, Maine.	Sept. 2016
Bridges between Noncommutative Algebra and Algebraic Geometry Banff International Research Station, Banff, Canada.	Sept. 2016
Hopf Algebras session, XXI Coloquio Latinoamericano de Álgebra University of Buenos Aires, Buenos Aires, Argentina.	July 2016
Finite dimensional Hopf actions on algebraic quantizations	
Seattle Noncommutative Algebra Day, Seattle, Washington.	Apr. 2016
Semisimple/ Finite dimensional Hopf actions on Weyl algebras	
Nichols Algebras and applications Banff International Research Station, Banff, Canada.	Sept. 2015
AMS section meeting, Michigan State U., East Lansing, Michigan.	Mar. 2015

Noncommutative Alg. Geom. workshop, Fudan U., Shanghai, China. Aug. 2014

On quantum groups assoc. to non-Noetherian reg. algebras of dim. 2

Geometric Algebra Conference, Fields Institute, Toronto, Canada. July 2015

AMS section meeting, U. Nevada Las Vegas, Las Vegas, Nevada. Apr. 2015

Actions of some pointed Hopf algebras on path algebras of quivers

Joint Mathematics Meeting: Noncom. Alg. session, San Antonio, Tex. Jan. 2015

Hopf algebras and actions workshop, U. Washington, Seattle, Wash. Nov. 2014

Finite dimensional Hopf actions on commutative domains

Representation Theory seminar, Northeastern U., Boston, Mass. Nov. 2014

Poisson 2014, U. Illinois Urbana-Champaign, Urbana, Illinois. Aug. 2014

Math. Forschungsinstitut Oberwolfach, Oberwolfach, Germany. Apr. 2014

Algebra seminar, U. Washington, Seattle, Washington. Nov. 2013

Noncommutative Invariant Theory (survey)

Department Colloquium, Rice U., Houston, Texas. Sept. 2014

Department Colloquium, Sam Houston State U., Huntsville, Texas. Mar. 2014

Algebra Seminar, Texas A&M U., College Station, Texas. Mar. 2014

Department Colloquium, Syracuse U., Syracuse, New York. Feb. 2014

Department Colloquium, Temple U., Philadelphia, Pennsylvania. Jan. 2014

Department Colloquium, U. California San Diego, San Diego, Calif. Jan. 2014

Department Colloquium, U. Waterloo, Waterloo, Canada. Nov. 2013

AMS section meeting, Temple U., Philadelphia, Pennsylvania. Oct. 2013

Every Topic seminar, Brandeis U. Waltham, Massachusetts. Oct. 2013

Southern California Algebra Conference (UCLA) Apr. 2013

Department Colloquium, Iowa State University, Ames, Iowa. Apr. 2013

PBW deformations of smash product algebras from Hopf actions

CMS section meeting, U. Ottawa, Ottawa, Canada. Dec. 2013

Semisimple Hopf actions on commutative domains

Postdoctoral seminar, MSRI, Berkeley, California. Mar. 2013

Hopf actions and Nakayama automorphisms

New Trends in Noncommutative Algebra and Algebraic Geometry Oct. 2012

Banff International Research Station, Banff, Canada.

Quantum binary polyhedral groups and their actions on quantum planes

Algebra seminar, Syracuse University, Syracuse, New York. Oct. 2012

Noncommutative Invariant Theory conf., U. Washington, Seattle. May 2012

Comm. Alg. and its Interactions with Alg. Geom., Rep. Theory, and May 2012

Physics, Centro de Investigación en Matemáticas, Guanajuato, Mexico.

AMS section meeting, U. Hawaii at Manoa, Honolulu, Hawaii. Mar. 2012

Representation theory of three-dimensional Sklyanin algebras

Noncommutative Algebraic Geometry and D-branes workshop Dec. 2011

Simons Center for Geometry and Physics, Stony Brook, New York.

Algebra seminar, U. California Santa Barbara, Santa Barbara, Calif. Nov. 2011

AMS section meeting, Wake Forest U., Winston-Salem, N. Carolina. Sept. 2011

Degenerate Sklyanin Algs. and Gen. Twisted Homog. Coord. Rings

Algebra Seminars, U. Stuttgart, Ger.; U. Newcastle, U. Leeds, UK. Feb. 2011

Department Colloquium, Wake Forest U., Winston-Salem, N. Carolina. Nov. 2010

Algebraic Geometry Seminar, U. Illinois U-C, Urbana, Illinois. Nov. 2010

	Algebra Seminar, Michigan State U., East Lansing, Michigan.	Oct. 2010
	Kent Algebra Days, U. Kent, Canterbury, England.	June 2010
	Algebraic Geometry Seminar, U. Warwick, Warwick, England.	Feb. 2010
	AMS Western section meeting, U. California, Riverside, California.	Nov. 2009
	Algebra Seminar, Northeastern U., Boston, Massachusetts.	Oct. 2009
INVITED	Navigating Collaboration	
EXPOSITORY	Infinite Possibilities Conference, Howard U., Washington D.C.	Apr. 2018
TALKS	Symmetries in Algebra: The What? The How? And the Why Care?	
	Department Colloquium, Reed College, Portland, Oregon.	Mar. 2018
	Math in the Age of Trump	
	USTARS conference, Amherst College, Amherst, Mass.	Apr. 2017
	Marjorie Lee Browne Colloquium, U. Michigan, Ann Arbor, Michigan.	Jan. 2017
	Hamilton's Quaternions	
	Undergraduate Math Club, Louisiana State U., Baton Rouge, Louis.	Nov. 2016
	Undergraduate Math Club, Temple U., Philadelphia, Penn.	Feb. 2016
	Undergraduate Mathematics Symposium, U. Illinois, Chicago, Illinois.	Oct. 2015
	MathROOTS (high school program), MIT, Cambridge, Mass.	June 2015, 2016
	An Introduction to Noncommutative Invariant Theory	
	Undergraduate Math Club, MIT, Cambridge, Massachusetts.	Apr. 2015
	Keynote address, AFRAMath conference, Boston U. Boston, Mass.	Apr. 2014
	ADVANCE PRiME seminar series, Purdue U., West Lafayette, Indiana.	July 2013
	EDGE symposium, New College of Florida, Sarasota, Florida.	June 2013
	Noncommutative Algebra?!	
	PURE REU, University of Hawaii, Hilo, Hawaii.	July 2015
	Department Colloquium, Smith College, Northampton, Massachusetts.	Sept. 2014
	Department Colloquium, Medgar Evers College, New York, New York.	Apr. 2014
	Department Seminar, Spelman College, Atlanta, Georgia.	Sept. 2010
	Department Colloquium, Wellesley College, Wellesley, Massachusetts.	Oct. 2009
	Undergraduate Math Club, U. of Michigan, Ann Arbor, Michigan.	Oct. 2009
	Introducing Noncommutative Projective Algebraic Geometry	
	Alg. and Rep. Thy (ARTIN) meeting, U. Glasgow, Scotland.	May 2008
	Inst. of Adv. Study: Women and Mathematics, Princeton, New Jersey.	May 2007
CONFERENCES, WORKSHOPS CO-ORGANIZED	MSRI semester on Quantum Symmetry	Spring 2020
	Mathematical Sciences Research Institute, Berkeley, California.	
	http://www.msri.org/programs/312	
	- Non-contact organizer; Contact organizer for Connections for Women workshop	
	- http://www.msri.org/workshops/905	
	Women in Noncommutative Algebra and Representation Theory 2 (WINART2) workshop	May 2019
	University of Leeds, Leeds, UK.	
	- (Non-local) Contact organizer and Research Group co-leader (with Julia Plavnik)	
	- https://bit.ly/2LTQJXy (short url)	
	Kirkman & Lorenz: Algebra Extravaganza!	July 2017
	Conference in honor of Ellen Kirkman and Martin Lorenz	
	Temple University, Philadelphia, Pennsylvania.	

- Contact organizer
- NSF conference grant DMS-1712663 (co-PI with V. Dolgushev), \$24,969 USD
- <https://math.temple.edu/events/conferences/k-1/>

AMS Meeting Special Sessions *(various)*
 New Dev. in NC Alg. & Rep. Thy, Joint Math Meeting, Atlanta, GA. Jan. 2017
 Quantum Algebra, Western Section Meeting, Denver, Colorado. Oct. 2016

Graduate Student Conf in Algebra, Geometry, and Topology May 2016
 Temple University, Philadelphia, Pennsylvania.
 - NSF conference grant DMS-1623003 (co-PI with D. Futur), \$37,900 USD
 - <https://math.temple.edu/events/conferences/gscagt/>

Women in Noncommutative Algebra and Representation Theory (WINART) workshop [16w5023] April 2016
 Banff International Research Station, Banff, Canada.
 - Contact organizer
 - <https://bit.ly/2kNgNaq> (short url)

SELECTED
 CONFERENCES,
 WORKSHOPS,
 SCHOOLS
 (EXCLUDING
 ABOVE)

Fusion Categories and Subfactors Oct. 2018
 Banff International Research Station, Banff, Canada.

Noncom. Alg. Geom. and Rep. Theory program Jan. - May 2013
 Mathematical Sciences Research Institute, Berkeley, California.

New Trends in Noncom. Algebra and Alg. Geom. Oct. 2012
 Banff International Research Station, Banff, Canada.

New developments in Noncommutative Algebra and its applications, in honor of Ken Brown and Toby Stafford June 2011
 Sabhal Mòr Ostaig, Isle of Skye, Scotland

Interactions btw Alg. Geom and Noncom. Alg. workshop May 2010
 Mathematisches Forschungsinstitut Oberwolfach, Oberwolfach, Germany.

Algebraic Lie Theory Program
 Newton Institute for Mathematical Sciences, Cambridge, England.
 Representation Theory and Lie Theory conference. June 2009
 Algebraic Lie Theory and its Origins in Physics conference. Mar. 2009

Algebraic Geometry Program
 Mathematical Sciences Research Institute, Berkeley, California.
 Classical Algebraic Geometry Today workshop Jan. 2009
 Connections for Women: Alg. Geometry and Related Fields Jan. 2009

Institut Fourier Summer School June - July 2008
 Institut Fourier, Grenoble, France.
 Program Theme: Geometric Methods in Representation Theory.

IAS Summer workshop: Women and Mathematics *(various)*
 Institute of Advanced Study, Princeton, New Jersey.
 Alg. Geom. and Group Actions (May 2007), Zeta Functions (May 2006).

Scuola Matematica Interuniversitaria (SMI) Aug. 2006
 University of Perugia, Perugia, Italy.

POSTDOCTORAL
 ADVISEES

Xingting Wang, Temple University. July 2015 - June 2018

PH.D. ADVISEES	Harshit Yadav , U. Illinois Urbana-Champaign.	Spring 2019 - present
	Zachary Cline , Temple University.	Dec 2015 - present
UNDERGRADUATE RESEARCH ADVISEES	Andrew Estornell, Matthew Wynne , Temple Univ.	Apr 2017 - May 2018
	- Topic: Deformations of noncommutative algebras.	
	- Resulted in preprint https://arxiv.org/abs/1805.06947 .	
	Dong Bin Choi , Temple University.	Jan. - Dec. 2016
	- Topic: Noncommutative Invariant Theory.	
	Daniel Reich , Temple University.	June 2014 - Aug. 2015
	- Topic: PI three-dimensional Sklyanin algebras.	
	- Resulted in preprint http://arxiv.org/abs/1512.09167 .	
TEACHING	Instructor	
	University of Illinois, Urbana-Champaign, Illinois	
	- Abstract Algebra (Ugrad), Math 417 sections D13, E13.	Spring 2019
	- Abstract Algebra (Grad), reading course.	Spring 2019
	- Representation Theory (Grad), Math 506.	Fall 2018
	Temple University, Philadelphia, Pennsylvania	
	- Abstract Algebra (Grad), Math 8011.	Fall 2017
	- Homological Algebra (Grad), Math 9011.	Spring 2017
	- Modern Algebra (Ugrad), Math 3098.	Fall 2016
	- Calculus III (Ugrad), Math 2043, Section 008.	Spring 2016
	Massachusetts Institute of Technology, Cambridge, Massachusetts.	
	- Seminar in Algebra and Number Theory (Ugrad), Math 18.704.	Spring 2015
	Facilitator	
	University of Illinois, Urbana-Champaign, Illinois	
	- Topological Field Theory and Frobenius algebras, reading group.	Spring 2019
	Advanced Linear Algebra Instructor, Enhancing Diversity in Graduate Education (EDGE) program	
	Howard College, Washington D.C.	June 2015
	Harvey Mudd College, Claremont, California.	June 2014
	New College of Florida, Sarasota, Florida.	June 2013
	Pomona College, Claremont, California.	June 2012
	Recitation Leader	
	Massachusetts Institute of Technology, Cambridge, Massachusetts.	
	Calculus III, Math 18.02 section 1 & 18.02 Course Administrator	Fall 2014
	Calculus III, Math 18.02A sections 3 and 6	Jan. 2014
	Calculus I-III, Math 18.01A/02A sections 2 and 3	Fall 2013
	Calculus III, Math 18.02 sections 10 and 14	Fall 2012
	Graduate Student Instructor (GSI)	
	University of Michigan, Ann Arbor, Michigan.	
	Calculus I (primary instructor), Math 115 section 18	Fall 2010
	Differential Equations, Math 216 sections 41-44	Fall 2009
	Calculus II (primary instructor), Math 116 section 36	Fall 2008
	Calculus I (primary instructor), Math 115 section 42	Fall 2006

GSI, Michigan Math and Science Scholars July 2006
University of Michigan, Ann Arbor, Michigan.

GSI, Emerging Scholars Program Aug. 2004 - May 2005
Michigan State University, East Lansing, Michigan.

SELECTED
SERVICE AND
OUTREACH

DIVERSITY AND INCLUSION SERVICE (INDIVIDUALIZED)

Tailored especially to underrepresented racial and gender minorities.

- Provided advice on transitional points in the academic career path, including undergraduate training to graduate training, to a postdoctoral fellowship, to a tenure-track position, to obtaining tenure, through various media (email, phone, messenger, etc): 100+ one hour exchanges.
- Aided in tenure-track offer negotiations: 12+ contracts.
- Assisted with navigating the collaborative research process: 10+ (non co-)authors.
- Served as unofficial liaison for mental health and family services: Numerous.

INTERNAL SERVICE FOR UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

- Graduate Affairs Committee Fall 2018 - present
- Graduate Recruit Application Screening Fall 2018 - present

INTERNAL SERVICE FOR TEMPLE UNIVERSITY

- Colloquium organizer Fall 2016 - Fall 2017
- Graduate committee member Fall 2015 - Spr. 2018
- Algebra seminar organizer Fall 2015 - Fall 2017

EXTERNAL SERVICE ACTIVITIES

Referee. *Adv. Math., Alg. Rep. Theory., Bull. London Math. Soc., Comm. Algebra, J. Comm. Algebra, J. Algebra, J. Algebra Appl., J. Symplectic Geom., Proc. Amer. Math Soc., Proc. Edinburgh Math Soc.*

Scientific Advisory Committee

Poisson Geometry Summer School and Conference [unknown date in 2020]
CIMPA Research School on Quantum Symmetries, Bogotá, Colombia July 2019

Panel Member

Transition to the 1st (or 0th) Year of Graduate School (NAM). Jan. 2018
Joint Mathematics Meetings, San Diego, California.

Building and Sustaining Momentum. Jan. 2013

Connections for Women workshop, MSRI, Berkeley, California.

Networking Lunch. Apr. 2012

Underrep. Students in Top. and Alg. Research Symp. U. Iowa, Iowa City, Iowa.

Mentoring through Critical Transition Points. Oct. 2008

Diversity in Graduate Math workshop, MSRI, Berkeley, California.

How to Survive Graduate School. May 2007

IAS Summer workshop: Women and Mathematics, IAS, Princeton, New Jersey.

Administrator, women-in-nalg-repthy.org July 2015 - Present

- Created, manages site & email listserv that is a resource for (cis and trans) women and non-binary researchers in Noncommutative Algebra and Representation Theory.

Instructor/ Speaker, Enhancing Diversity in Graduate Education (EDGE) program

Howard College, Washington D.C. June 2015
Harvey Mudd College, Claremont, California. June 2014
New College of Florida, Sarasota, Florida. June 2013
Pomona College, Claremont, California. June 2012

AMS-Simons Travel Grants Committee Member Feb. 2015 - Jan. 2018
American Mathematical Society, USA.

NSF and NSA Grant Panels Disclosed dates 2015, 2018

Advisory Board Member, MIT PRIMES July 2014 - Present
Massachusetts Institute of Technology, Cambridge, Massachusetts.

Program Coordinator, MIT PRIMES Circle Aug. 2012 - July 2014
Massachusetts Institute of Technology, Cambridge, Massachusetts.

- Goal: to increase the participation of underrepresented students in mathematics.
- Recruited students from public high schools throughout Boston and Cambridge
- Monitored weekly progress of students and mentors

Member, Mathematics Undergraduate Committee Aug. 2003 - May 2005
Michigan State University, East Lansing, Michigan USA.

- Served as representative for the undergraduate population in the math dept.
- Initiated the development of course MTH 290: *Transition to Higher Mathematics*;
Currently known as MTH 301: *Foundations of Higher Mathematics*.

AFFILIATIONS

American Mathematical Society (AMS)
Mathematical Association of America (MAA)
National Association of Mathematicians (NAM)