

Jonathan Kujawa

Institutional Address

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Education

2003 Ph.D. Mathematics University of Oregon
 Thesis Advisor: Jonathan Brundan
 Thesis: “The Representation Theory of the Supergroup $GL(m|n)$ ”
1999 M.S. Mathematics University of Oregon
1997 B.A. Mathematics Gustavus Adolphus College
1995 – 96 Budapest Semesters in Mathematics

Academic Positions

2024 – present	Professor of Mathematics	Oregon State University
2017 – 2023	Professor of Mathematics	University of Oklahoma
2012 – 2017	Associate Professor of Mathematics	University of Oklahoma
Spring 2015	Visiting Research Fellow	Mittag-Leffler Institute
2007 – 2012	Assistant Professor of Mathematics	University of Oklahoma
Spring 2008	Postdoctoral Member	Mathematical Sciences Research Institute
2004 – 07	NSF Postdoctoral Fellow	University of Georgia
	Senior Sponsoring Scientist: Daniel Nakano	
2004 – 05	Franklin Teaching Fellow	University of Georgia
2003	Postdoctoral Fellow	University of Toronto
1997 – 03	Graduate Teaching Fellow	University of Oregon

Awards

2024 Hartmann Faculty Scholar, Oregon State University.
2022 Nancy Scofield Hester Presidential Professorship, University of Oklahoma.
2017 Plenary Talk, AMS Sectional Meeting, U. Central Florida, Orlando, FL.
2012 Irene Rothbaum Outstanding Assistant Professor
2002 D. K. Harrison Research Award, University of Oregon

Research Interests

Representation theory and Lie theory. Particularly their connections to algebraic geometry, low-dimensional topology, and algebraic combinatorics.

Research Grants: Principal Investigator or co-Principal Investigator

- 2025 – 30 Simons Foundation Travel Support for Mathematicians Grant (SFI-MPS-TSM-00014272)
- 2025 Promoting Research Opportunities and Open Forums (PROOF) Research Group, SLMath
(with L. Grimley, Z. Lin, C. Magnum, C. Uhl, and E. Wilson)
- 2024 NSF Conference Grant (DMS-2401049)
- 2024 NSA Conference Grant
- 2024 NSA Conference Grant (H98230-24-1-0007)
- 2022 – 27 Simons Foundation Collaboration Grant (Grant No: 963912)
(relinquished in 2023 as part of move to OSU)
- 2020 – 24 SQuaRE Research Group, American Institute of Mathematics
(with N. Davidson, R. Muth, and J. Zhu)
- 2017 – 22 Simons Foundation Collaboration Grant (Grant No: 525043)
- 2016 – 17 NSA Research Grant (H98230-16-0055)
- 2012 – 16 NSF Research Grant (DMS-1160763)
- 2014 NSF Conference Grant (DMS-1406933)
- 2011, 2012 OU College of Arts and Sciences Junior Faculty Summer Fellowship
- 2011 – 12 NSA Research Grant (H98230-11-1-0127)
- 2008, 2012 OU Vice President for Research Travel Grants
- 2007 – 11 NSF Research Grant (DMS-0734226)
- 2006 AMS/NSF Travel Grant to attend the 2006 ICM
- 2004 – 07 NSF Postdoctoral Fellowship (DMS-0402916)

Publications

- [1] Superalgebra deformations of web categories: affine and cyclotomic webs,
(with N. Davidson, and R. Muth), *submitted*, (2025).
- [2] Schur–Weyl equivalences for wreath product superalgebras,
(with L. Grimley), *submitted*, (2025).
- [3] Lie superalgebras generated by reflections in Weyl groups of classical type,
(with C. Drupieski), *submitted*, (2025).
- [4] Lie algebras generated by reflections in types BCD,
(with C. Drupieski), *submitted*, (2025).
- [5] Superalgebra deformations of web categories: finite webs,
(with N. Davidson, R. Muth, and J. Zhu), *submitted*, (2023).
- [6] Quantum webs of type Q,
(with G. Brown and N. Davidson), *Israel J. Math.*, *to appear*.

Publications, continued

- [7] The Lie superalgebra of transpositions,
(with C. Drupieski), *Algebras Represent. Theory*, to appear.
- [8] Howe duality of type P ,
(with N. Davidson and R. Muth), *Transformation Groups*, Volume 30, (2025).
- [9] A survey of support theories for Lie superalgebras and finite supergroup schemes,
(with C. Drupieski), *Contemp. Math.*, 804, (2024).
- [10] Support varieties for Lie superalgebras in characteristic 2,
(with C. Drupieski), *Proc. Sympos. Pure Math.*, **108**, (2024).
- [11] Webs of type P ,
(with N. Davidson and R. Muth), *Canad. J. Math.*, Volume 76, Issue 6, (2024).
- [12] Positivity and web bases for Specht modules of Hecke algebras,
(with S. Heard), *Int. Math. Res. Notices*, rna054, (2023).
- [13] Troesch complexes and cohomology for strict polynomial superfunctors,
(with C. Drupieski), *J. Pure Appl. Algebra*, Volume 226, Issue 12, (2022).
- [14] M-traces in (non-unimodular) pivotal categories,
(with N. Geer and B. Patureau-Mirand), *Algebras Represent. Theory*, **25**, 759-776 (2022).
- [15] Complexity and support varieties for type P Lie superalgebras,
(with B. Boe), *Math. Res. Lett.*, Volume 29, no. 1, 59-100 (2022).
- [16] Webs of type Q,
(with G. Brown), *Algebraic Combin.*, Volume 4, no. 6 (2021), 1027-1072.
- [17] Support schemes for infinitesimal unipotent supergroups,
(with C. Drupieski), *Advances in Math.*, **384**, (2021).
- [18] Support varieties and modules of finite projective dimension for modular Lie superalgebras,
(with C. Drupieski, appendix by L. Avramov and S. Iyengar), *Algebra & Number Theory*, **15** no. 5 (2021).
- [19] Graded analogues of one-parameter subgroups and applications to the cohomology of $GL_m|n(r)$,
(with C. Drupieski), *Advances in Math.*, **348**, (2019), 277-352.
- [20] On support varieties for Lie superalgebras and finite supergroup schemes,
(with C. Drupieski), *J. of Algebra*, **525**, (2019), 64-110.
- [21] On the cohomological spectrum and support varieties for infinitesimal unipotent supergroup schemes,
(with C. Drupieski), *Adv. in Algebra*, Springer Proc. Math. Stat., **277**, (2019).
- [22] A basis theorem for the degenerate affine Brauer-Clifford supercategory,
(with J. Brundan and J. Comes), *Canad. J. Math.*, **71** (5), (2019), 1061-1101.
- [23] Geometric Schur duality of classical type,
(with H. Bao, Y. Li, W. Wang), *Transformation Groups*, **23**, (2018), 329-389.

Publications, continued

- [24] Tensor triangular geometry for classical Lie superalgebras,
(with B. Boe and D. Nakano), *Advances in Math.*, **314**, (2017), 228–277.
- [25] The marked Brauer category,
(with B. Tharp), *J. London Math. Soc.* **95**, (2017), No. 2, 393–413
- [26] Presenting Schur superalgebras,
(with H. El Turkey), *Pacific J. Math.*, **262**, (2013), No. 2, 285–316.
- [27] Ambidextrous objects and trace functions for nonsemisimple categories,
(with N. Geer and B. Patureau-Mirand), *Proc. Amer. Math. Soc.*, **141**, (2013), no. 9.
- [28] The generalized Kac-Wakimoto conjecture and support varieties for the Lie superalgebra $\mathfrak{osp}(m|2n)$,
SE Lie Theory Conf. Proc., Proc. Symp. Pure Math., **86**, (2012).
- [29] Modified Traces on Deligne’s Category $\text{Rep}(S_t)$,
(with J. Comes), *J. Algebraic Combin.*, **36** (2012), no. 4, 541–560.
- [30] Complexity for modules over the classical Lie superalgebra $\mathfrak{gl}(m|n)$,
(with B. Boe and D. Nakano), *Compositio Math.*, **148**, Issue 5, (2012), 1561–1592.
- [31] Degenerate affine Hecke-Clifford algebras and type Q Lie superalgebras,
(with D. Hill and J. Sussan), *Math. Zeit.*, Volume 268, Numbers 3-4 (2011), 1091–1158.
- [32] Generalized trace and modified dimension functions on ribbon categories,
(with N. Geer and B. Patureau-Mirand), *Selecta Math.*, Volume 17, Issue 2 (2011), 453–504.
- [33] Complexity and module varieties for classical Lie superalgebras,
(with B. Boe and D. Nakano), *Int. Math. Res. Notices*, no. 3 (2011), 696–724.
- [34] Cohomology and support varieties for Lie superalgebras,
(with B. Boe and D. Nakano), *Trans. Amer. Math. Soc.*, **362** (2010), 6551–6590.
- [35] Cohomology and support varieties for Lie superalgebras II,
(with B. Boe and D. Nakano), *Proc. London Math. Soc.*, **98** (2009), no. 1, 19–44.
- [36] On Kostant’s theorem for Lie algebra cohomology,
(with UGA VIGRE Algebra Group), *Contemp. Math.*, **478** (2009) 39-60.
- [37] Cohomology and support varieties for the Lie superalgebra $W(n)$,
(with I. Bağcı and D. Nakano), *Int. Math. Res. Notices*, Article ID: rnn115, (2008).
- [38] Support varieties for Weyl modules over bad primes,
(with UGA VIGRE Algebra Group), *J. Algebra*, **312** no 2. (2007), 602–633.
- [39] The Steinberg tensor product theorem for $GL(m|n)$,
Contemp. Math., **413** (2006), 123–132.
- [40] Representation type of Schur superalgebras,
(with D. Hemmer and D. Nakano), *J. Group Theory*, **9** no 3. (2006), 283–306.
- [41] Crystal structures arising from representations of $GL(m|n)$,
Rep. Theory, **10** (2006), 49–85.
- [42] Varieties of nilpotent elements for simple Lie algebras II: bad primes,
(with UGA VIGRE Algebra Group), *J. Algebra*, **292** no 1. (2005), 65–99.
- [43] A new proof of the Mullineux conjecture,
(with J. Brundan), *J. Algebraic Combin.*, **18**, no 1. (2003), 13–39.

Conferences and Invited Talks

- 2026 June Groups, Representations, and Cohomology, ICMS, Edinburgh, United Kingdom
 March Cluster Algebras, Webs, and Canonical Bases, BIRS, Banff, Canada.
 February Cohomology of Finite Groups: Interactions and Applications, Oberwolfach, Germany
- 2025 August AMS Central Section Meeting Special Session, U. of Denver, Denver, CO.
- 2024 December NZMS/AustMS/AMS Joint Meeting Special Session, Auckland, New Zealand.
 July AMS/Unione Matematica Italiana Joint Meeting Special Session, Palermo, Italy.
 July Workshop on Representations of Supergroups, Hausdorff Institute, Bonn, Germany.
 May AMS Western Section Meeting Special Session, SFSU, San Francisco, CA.
 April Representation Theory and Tensor Categories Seminar, Berkeley, CA.
 January Symmetric Tensor Categories and Representation Theory, IPAM, UCLA, CA.
- 2023 October AMS Eastern Section Meeting Special Session, U. of Buffalo, SUNY, Buffalo, NY.
 June Representation Theory of Hecke Algebras and Categorification, OIST, Okinawa, Japan.
 May Colloquium, Oregon State University, Corvallis, OR.
 April AMS Central Section Meeting Special Session, U. of Cincinnati, Cincinnati, OH.
 March AMS Southeastern Section Meeting Special Session, GA Tech, Atlanta, GA.
- 2022 August Symmetric Spaces, Their Generalizations, and Special Functions, Univ. of Ottawa, Canada.
 July New directions in group theory and triangulated categories, online.
 June Homological Comm. Algebra and Related Topics, Georgia Southern Univ., Savannah, GA.
 March AMS Southeastern Section Meeting Special Session. (canceled due to covid-19)
- 2021 November AMS Southeastern Section Meeting Special Session, online.
 May AMS Western Section Meeting Special Session, online.
 April Superalgebra Theory and Representations Seminar (STARS), BGU-BIU-WIS, Israel.
- 2020 October New Trends in Rep. Theory (three talks), Hausdorff Institute, Bonn, Germany.
 October AMS Western Section Meeting Special Session, online.
 August Cohomology of Finite Groups: Interactions and Apps., MFO, Oberwolfach, Germany.
 March AMS SE Section Meeting Special Session, UVA, Charlottesville, VA. (canceled due to covid-19)
 January Colloquium, Reed College.
- 2019 December Algebraic and Geometric Categorification, BIRS-CMO, Oaxaca, Mexico.
 September AMS Central Section Meeting Special Session, UW-Madison, Madison, WI.
 July Reps. of monoidal categories and 2-categories, Univ. of East Anglia, Norwich, UK.
 June Vietnam-USA Joint Math. Meeting Special Session, Quy Nhon, Vietnam
 March AMS SE Section Meeting Special Session, Auburn Univ., Auburn, AL.
- 2018 September Interactions of low-dim. topology and “higher” representation theory, Universität Zürich.
 February Southwest Local Algebra Meeting, University of Arkansas.
 January Colloquium and Seminar, University of Oregon.

Conferences and Invited Talks, continued

- 2017 December Rep. Theory of Symmetric Groups and Related Algebras, IMS NUS, Singapore.
 October Plenary talk, AMS SE Section Meeting, Univ. of Central Florida, Orlando, FL.
 July Mathematical Congress of the Americas Special Session, Montréal, Canada.
 July Workshop on Rep. Theory of Lie Superalg. and related topics, NCTS, Taipei, Taiwan.
 March AMS SE Section Meeting Special Session, College of Charleston, Charleston, SC.
 January AMS National Meeting Special Session, Atlanta, GA.
- 2016 January AMS National Meeting Special Session, Seattle, WA.
- 2015 October Colloquium, DePaul University.
 October Algebra and Combinatorics Seminar, Loyola University.
 May Representation Theory Workshop, Uppsala, Sweden.
 March Interaction of Rep. Theory with Geometry and Combinatorics, Bonn, Germany.
 January Rep. Theory, Categorification, and Noncomm. Algebra, UNAM, Mexico City.
- 2014 October Commutative Algebra Seminar, University of Utah.
 October Colloquium, Utah State University.
 October Lie Theory Seminar, University of Colorado.
 September Algebraic Lie Theory, ICMS, Edinburgh, Scotland.
 September AMS Central Section Meeting Special Session, UW-Eau Claire, Eau Claire, WI.
 May Southeast Lie Theory Conference, University of Georgia.
 April Great Plains Combinatorics Conference, University of Kansas.
 March AMS SE Section Meeting Special Session, Univ. of Tennessee, Knoxville, TN.
- 2013 October AMS Eastern Section Meeting Special Session, Temple Univ., Philadelphia, PA.
 May Workshop on Super Rep. Theory, Academia Sinica, Taipei, Taiwan.
 April AMS Central Section Meeting Special Session, Univ. of Colorado, Boulder, CO.
- 2012 October AMS SE Section Meeting Special Session, Tulane University, New Orleans, LA.
 September New York Algebra Colloquium, CUNY, NYC, NY.
 September AMS Eastern Section Meeting Special Session, RIT, Rochester, NY.
 May Lie Theory Seminar, University of CA, Riverside
 March AMS Central Section Meeting Special Session, Univ. of Kansas, Lawrence, KS.
 March AMS SE Section Meeting Special Session (two talks), USF, Tampa, FL.
- 2011 October Colloquium, Utah State University.
 October AMS Western Section Meeting Special Session, Univ. of Utah, Salt Lake City, UT.
 September Algebraic Representation Theory Conference, Uppsala University, Sweden.
 March Representation Theory Seminar, Virginia Tech.
- 2010 May Southeast Lie Theory Conference, University of Georgia.
 April AMS Central Section Meeting Special Session, Macalester College, St. Paul, MN.
 March Combinatorial Rep. Theory Workshop, MFO, Oberwolfach, Germany.
 January AMS National Meeting Special Session, San Francisco, CA.

Conferences and Invited Talks, continued

- 2009 November Algebra and Combinatorics Seminar, Texas A & M University.
 October AMS Central Section Meeting Special Session, Baylor University, Waco, TX.
 July LMS Symposium on Comb. Geo. Structures in Rep. Theory, Durham, UK.
- 2008 October AMS Central Section Meeting Special Session, Kalamazoo, MI.
 October AMS Western Section Meeting Special Session, Vancouver, Canada.
 September Rep. Theory, Geometry, and Combinatorics Seminar, Univ. of Cal., Berkeley, CA.
 July Summer School on Quantum Grps and Lie Theory, ECNU, Shanghai, China.
 April Conference on Homological Methods in Rep. Theory, MSRI, Berkeley, CA.
 March AMS SE Section Meeting Special Session, Baton Rouge, LA.
 February Millican Colloquium, University of North Texas.
- 2007 November AMS SE Section Meeting Special Session, Murfreesboro, TN.
 September Group Embeddings: Geometry and Representations, BIRS, Banff, Canada.
 May Algebraic Lie Theory, BIRS, Banff, Canada.
 March AMS SE Section Meeting Special Session, Davidson, NC.
 January AMS National Meeting Special Session, New Orleans, LA.
- 2006 November Algebra Seminar, University of Toledo.
 August Conference on Ass. and Non-ass. Alg. Structures, Oviedo, Spain.
 February Algebra Seminar, University of Virginia.
- 2005 October Colloquium, University of Southern Alabama.
 October Algebra Seminar, University of Southern Alabama.
 September Algebra Seminar, University of Virginia.
 June Conference on Alg. and Finite Reductive Groups, EPFL, Lausanne, Switzerland.
 March Colloquium, Kansas State University.
 January AMS National Meeting Special Session, Atlanta, GA.
- 2004 October Colloquium, University of Toledo.
 July AMS Summer Res. Conf.: Rep. of Alg. Groups, Quant. Groups, and Lie Alg., Snowbird, UT.
- 2003 January Contributed Talk, AMS National Meeting, Baltimore, MD.
- 2002 July International Conf. on Rep. of Algebras, X, Fields Institute, Toronto, ON.
 June AMS Summer Res. Conf.: Groups, Reps. and Cohomology, Mount Holyoke College, MA.

Other Presentations

2024	October	Algebra and Number Theory Seminar, Oregon State University.
	April	Algebra and Number Theory Seminar, Oregon State University.
	February	Algebra and Number Theory Seminar, Oregon State University.
2023	November	Algebra Seminar, University of Oklahoma.
	September	Graduate Student Seminar, University of Oklahoma.
	January	Graduate Student Seminar, University of Oklahoma.
2022	March	Algebra Seminar, University of Oklahoma.
2021	November	Algebra Seminar, University of Oklahoma.
	April	Algebra Seminar, University of Oklahoma.
2019	November	GIT Seminar, University of Oklahoma.
	March	Algebra Seminar, University of Oklahoma.
	April	Graduate Student Seminar, University of Oklahoma.
2018	August	Algebra Seminar, University of Oklahoma.
2017	September	Algebra Seminar, University of Oklahoma.
	April	Graduate Student Seminar, University of Oklahoma.
2015	November	Graduate Student Seminar, University of Oklahoma.
2014	September	Algebra Seminar, University of Oklahoma.
	April	Algebra Seminar, University of Georgia.
	March	Algebra Seminar, University of Oklahoma.
2012	November	Algebra Seminar, University of Oklahoma.
	January	Algebra Seminar, University of Oklahoma.
2011	August	Algebra Seminar, University of Oklahoma.
	April	Undergraduate Colloquium, Lewis and Clark College, Portland, OR.
2010	August	Algebra Seminar, University of Oklahoma.
	May	VIGRE Summer School on Lie and Representation Theory, University of Georgia.
	April	Undergraduate Colloquium, Gustavus Adolphus College, St. Peter, MN.
	April	Mathematics Department Awards Dinner, University of Oklahoma.
	February	Algebra Seminar, University of Oklahoma (two talks).
2009	January	Graduate Student Recruitment Day, University of Oklahoma
	February	Algebra Seminar, University of Oklahoma (three talks).
2008	October	Graduate Student Seminar, University of Oklahoma.
	May	Seminar on representations of symmetric groups and closely related objects, MSRI.
	February	Postdoctoral Seminar, MSRI.
2007	October	Graduate Student Seminar, University of Oklahoma.
	September	Algebra Seminar, University of Oklahoma.
	Spring	VIGRE Graduate Seminar, University of Georgia.
2006	November	Algebra Seminar, University of Georgia.
	September	VIGRE Algebra Seminar, University of Georgia.
	February	Algebra Seminar, University of Georgia.
2005	December	VIGRE Graduate Seminar, University of Georgia.
	October	Algebra Seminar, University of Georgia.
	April	VIGRE Graduate Seminar, University of Georgia.
2004	October	VIGRE Algebra Seminar (three talks), University of Georgia.
	September	Algebra Seminar, University of Georgia.
	March	Algebra Seminar, University of Georgia.
	February	Lie Theory Seminar (three talks), University of Georgia.

Teaching Experience

Intro. to Module Theory	Winter 2026
Intro. to Representation Theory I	Fall 2020, Fall 2012
Lie Theory I	Fall 2010
Lie Theory II	Spring 2016, Fall 2011
Graduate Abstract Algebra I	Fall 2022, Fall 2016, Fall 2009
Graduate Abstract Algebra II	Spring 2023, Spring 2017, Spring 2012, Spring 2010
Abstract Linear Algebra	Fall 2022, Fall 2013, Fall 2010
Discrete Mathematics	Spring 2021, Fall 2019, Spring 2018, Fall 2013
Undergraduate Abstract Algebra I/II	Fall 2018/Spring 2019, Fall 2011/Spring 2012, Fall 2008/Spring 2009
Honors Calculus IV	Spring 2010
Honors Calculus III	Fall 2009
Honors Calculus II	Winter 2025, Spring 2020, Fall 2012, Spring 2009
Honors Calculus I	Fall 2008
New Graduate Student Summer Seminar	Summer 2002
Linear Algebra	Spring 2012, Spring 2005, Spring 2003
Introduction to Probability and Statistics	Summer 2001
Calculus III	Fall 2023 ($\times 2$), Fall 2007, Winter 2003, Spring 2002
Calculus II	Fall 2017, Winter 2002, Spring 2001
Calculus I	Spring 2013, 2011, 2005, 2004, 2000; Fall 2021, 2015, 2001
Business Calculus II	Summer 1998
Business Calculus I	Fall 2003
Discrete Math III	Fall 2002, Summer 2000
Introduction to Mathematical Modeling	Fall 2004
Elementary Functions	Winter 2000, Summer 1998
College Algebra	Fall 2000, 1999, 1997; Winter 1999, 1998; Spring 1999, 1998

Teaching Education

January 2004 – June 2005	Franklin Teaching Fellow Program, University of Georgia. A selective university-wide program to foster excellence in university teaching.
Winter 2000	Seminar on College Science Teaching, University of Oregon. An interdisciplinary seminar on teaching methods in university science courses.
Fall 1997	Seminar on Teaching Mathematics, University of Oregon. A weekly seminar on teaching mathematics in a university setting.

Advising and Mentoring (Undergraduate)

Fall 2019 – Spring 2022	LSAMP and McNair Scholars Mentor, Samuel Heard, University of Oklahoma.
Summer 2020 – Spring 2021	McNair Scholars Mentor, Skyler Moomey, University of Oklahoma.
Summer 2016	Reading Course on Algebraic Geometry, Haley Smith, Phillip Bretz, University of Oklahoma.
Fall 2010 – present	Undergraduate Honors Thesis Advisor, James Ramsey, University of Oklahoma (2022-2023). Sam Heard, University of Oklahoma (2020-2022). Colton Sandvik, University of Oklahoma (2020-2021). Timothy Rhyker Benavidez, University of Oklahoma (2011-2014). Teresa Whitelaw, University of Oklahoma (2012-2014). William Goldenberg, University of Oklahoma (2012-2013). Lauren Lajos, University of Oklahoma (2011-2013). Patrick Orchard, University of Oklahoma (2010-2011).
Spring 2009 – present	Vertical (Undergraduate + Graduate) Research Group, Univ. of Oklahoma.
Fall 2012 – Spring 2014	McNair Scholars Mentor, Timothy Rhyker Benavidez, University of Oklahoma.

Advising and Mentoring (Graduate)

2024 – present	Ph.D. advisor, Addison Day, Oregon State University.
2024 – 2025	M.S. advisor, Keith Gallegos, Oregon State University.
2019 – 2023	Ph.D. advisor, Erin Hausmann, University of Oklahoma. SMART Fellowship Recipient. Now at the Naval Information Warfare Center (NIWC) Pacific.
2018 – 2023	Ph.D. advisor, Ryan Reynolds, University of Oklahoma. Now at Bucknell University.
2018 – 2022	Ph.D. advisor, Joseph Randich, University of Oklahoma. SMART Fellowship Recipient. Now at the Naval Information Warfare Center (NIWC) Pacific.
2014 – 2018	Ph.D. advisor, Jieru Zhu, University of Oklahoma. Bullard Dissertation Completion Award Recipient. Now a tenure-track faculty at Queensland University, Brisbane, Australia.
2014 – 2017	Ph.D. advisor, Gordon Brown, University of Oklahoma. Now at Lockheed-Martin.

Advising and Mentoring (Graduate), continued

- 2013 – 2017 Ph.D. advisor,
Benjiman Tharp, University of Oklahoma.
Bullard Dissertation Completion Award Recipient.
Now at Ingersoll Rand.
- 2010 – 2014 Ph.D. advisor,
Houssein El Turkey, University of Oklahoma.
Now tenured at University of New Haven.
- 2008 – present Ph.D. committee member,
Lucas Smith, University of Oklahoma (2022-2024).
James Beyer, University of Oklahoma (2021-2024).
Steven Lin, University of Oklahoma (2020-2024).
Matthew Holtfrerich, University of Oklahoma (Physics, 2016-2024).
Jugal Talukdar, University of Oklahoma (Physics, 2020-2023).
Dustin Gaskins, University of Oklahoma (2019-2023).
Jordan Danser, University of Oklahoma (2019-2022).
Jessica Lajos, University of Oklahoma (2018-2021).
Thomas Morgan, University of Oklahoma (2016-2019).
Elizabeth Pacheco, University of Oklahoma (2013-2019).
Colin Vernooy, University of Oklahoma (2014-2019).
Kevin Haghi, University of Oklahoma (Meteorology, 2013-2017).
William Carter, University of Oklahoma (2012-2015).
Salam Turki, University of Oklahoma (2012-2015).
Thomas Madsen, University of Oklahoma (2008-2014).
Catherine Hall, University of Oklahoma (2008-2012).
Kumar Balasubramanian, University of Oklahoma (2008-2012).
- 2005 – 2009 Secondary Ph.D. thesis advisor,
Irfan Bağcı, University of Georgia.
Now tenured at University of North Georgia.
- 2005 – 2007 Ph.D. committee member,
Kenyon Platt, University of Georgia.

Advising and Mentoring (Postdoctoral)

- 2022 – present Postdoctoral Mentor,
Lauren Grimley, University of Oklahoma.
- 2016 – 2019 Postdoctoral Mentor,
Nick Davidson, University of Oklahoma.
Tenure track at College of Charleston, Charleston, SC.
- 2010 – 2012 Postdoctoral Mentor,
Lei Zhao, University of Oklahoma.
Now at TF Securities, Beijing, China.
- 2008 – 2011 Postdoctoral Mentor,
Stephen Spallone, University of Oklahoma.
Tenured at IISER Pune, Pune, India.

Outreach

Spring 2014 – present	Author of a bi-monthly column on mathematics for 3 Quarks Daily.
Fall 2007 – Fall 2021	High School Math Day Co-organizer, Univ. of Oklahoma.
Fall 2010 – Fall 2015	Faculty Panelist for Career Recruiter Day, Univ. of Oklahoma.
Fall 2008 – Spring 2013	Principal author of the OU Math Club blog.
Fall 2008 – Spring 2012	Advisor to the undergraduate OU Math Club
Winter 2004, Winter 2005	Mathematician, Barrow Elementary Career Day, Athens, GA.

Service Within the Mathematical Community

Fall 2003 – present	Referee for Publ. of IHES, Compositio Math., Duke Math J., Proc. LMS, Proc. AMS, Comm. Math. Physics, Trans. Groups, Ann. Inst. Fourier, J. of Algebra, J. of Alg. Comb., Comm. in Algebra, J. Pure Appl. Algebra, J. of Comb. Theory-A, Acta Math. Sinica, Proc. Symp. of Pure Math. Glasgow Math. J., Quaestiones Math., Canadian J. of Math., Alg. Comb., etc.
Fall 2003 – present	Reviewer for Mathematical Reviews.
Fall 2018 – present	MSRI Academic Sponsors Day Committee member, Chair for 2020 Sponsors Day.
2024 – 2025	Guest Editorial board member, J. of Pure and Applied Algebra.
2021 – 2025	Editorial board member, J. of Algebra.
Summer 2024	Co-organizer, Conference on Lie and Representation Theory, Univ. of Georgia.
Spring 2024	Co-organizer, SLAM Algebra Conference, Univ. of Oklahoma.
Fall 2023	External PhD thesis examiner, Iacopo Giordano, Université de Lille, Lille, France.
Fall 2023	Co-organizer, AMS Special Session, Mobile, Alabama.
Spring 2019	External PhD thesis examiner, Jyotirmoy Ganguly, IISER Pune, Pune, India.
Spring 2019	Co-organizer, AMS Special Session, Honolulu, Hawaii.
Fall 2018	Co-organizer, AMS Special Session, San Francisco, California.
Fall 2014 – Fall 2018	MSRI Academic Sponsors Executive Committee member.
Fall 2017	Co-organizer, AMS Special Session, Orlando, Florida. Invited grant reviewer for the Deutsche Forschungsgemeinschaft (DFG). Invited grant panelist for the National Science Foundation (NSF) (twice). Invited grant reviewer for the U.S.–Israel Binational Science Foundation (thrice).
Spring 2011 – 2015	Invited grant reviewer for the National Security Agency.
Fall 2014	Co-organizer of Algebraic Lie Theory Conference, ICMS, Edinburgh, Scotland.
Fall 2011	Co-organizer, AMS Special Session, Lincoln, Nebraska.

Service Within the University

Winter 2024 – present	Math Dept. Head, Oregon State University.
Fall 2022 – Fall 2023	Math Dept. Executive Committee (Committee A), Univ. of Oklahoma.
Spring 2023	Associate Chair, Dept. of Mathematics, Univ. of Oklahoma.
Fall 2019 – Fall 2022	Retirement Plans Management Committee Member, Univ. of Oklahoma.
Fall 2019 – Spring 2020	Search Committee Member, Univ. of Oklahoma, Math Faculty Position.
Spring 2016 – Fall 2021	Associate Chair, Dept. of Mathematics, Univ. of Oklahoma.
Fall 2019 – Spring 2020	Search Committee Member, Univ. of Oklahoma, AMO/CM Faculty Position, Physics Department.
Fall 2015 – Fall 2016	Search Committee Chair, Univ. of Oklahoma, First Year Mathematics Director Position.
Fall 2012 – Fall 2013	Math Dept. Executive Committee (Committee A), Univ. of Oklahoma.
Fall 2011 – Spring 2012	Search Committee Chair, Univ. of Oklahoma, Math Education Faculty Position.
Fall 2010 – Spring 2011	Search Committee Member, Univ. of Oklahoma, Math Education Faculty Position.
Fall 2009 – Spring 2010	Search Committee Member, Univ. of Oklahoma, Postdoctoral Faculty Position.
Fall 2004 – Spring 2007	Algebra Seminar Coordinator, Univ. of Georgia.
Winter 2003 – Spring 2007	VIGRE Algebra Group Member, Univ. of Georgia.
Winter 2003 – Spring 2005	Lie Theory Seminar Coordinator, Univ. of Georgia.