

CURRICULUM VITAE

KERI ANN SATHER-WAGSTAFF

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Contact Information

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Research Interests: Combinatorial and Homological aspects of Commutative Algebra

Education

PhD, 2000 University of Utah, Mathematics; advisor: Paul C. Roberts

MS, 1998 University of Utah, Mathematics; advisor: Paul C. Roberts

AB, 1993 University of California at Berkeley, Mathematics

Positions Post-PhD

2022–present National Science Foundation Program Officer (Rotator). Directorate for STEM Education (EDU). Division of Equity for Excellence in STEM (EES). Organizational Change for Gender Equity in STEM Academic Professions (ADVANCE) and Alliances for Graduate Education and the Professoriate (AGEP)

2019–present Professor, Clemson University, Mathematical & Statistical Sciences (on leave 22–25)

2015–2019 Associate Professor, Clemson University, Mathematical and Statistical Sciences

2012–2015 Associate Professor, NDSU, Mathematics

2007–2012 Assistant Professor, North Dakota State University (NDSU), Mathematics

2006–2007 Visiting Assistant Professor, Kent State University, Mathematics

2005–2006 Assistant Professor, Cal. State University, Dominguez Hills (CSUDH), Mathematics

2004–2005 Visiting Assistant Professor, University of Nebraska-Lincoln, Mathematics

2000–2004 NSF Mathematical Sciences Postdoctoral Research Fellow and VIGRE Research Assistant Professor, University of Illinois at Urbana-Champaign, Mathematics

Departmental Administrative Positions

2020–2022 Associate Director for Graduate Studies, Clemson

2019–2020 Associate Director for Undergraduate Studies, Clemson

2010–2015 Graduate Program Director and Recruiting Chair, NDSU

EQUITY, DIVERSITY, AND INCLUSION

National, University, College, and Departmental EDI Leadership Experience

2022 Spectra, Board Member and Political Committee Chair, national organization

2021–2022 Clemson University Council for Diversity & Inclusion, member, university committee

2021–2022 Clemson Lavender Place LLC steering committee chair, university committee

2021 Clemson National Coming Out Week event committee chair, university committee

- 2020–2022 Clemson TIGERS ADVANCE, Lead Senior Advocate, Senior Advocate, university's NSF ADVANCE institutional transformation program
- 2020–2022 Clemson Caregivers Support Task Force chair, university task force
- 2020–2022 Inclusive Excellence & Climate Committee, chair, Clemson, departmental committee
- 2019–2022 Clemson LGBTQ Commission, chair, deputy chair, member, liaison to Commission on Women, university commission
- 2018–2020 DINAMICS: Diversity, INclusivity, And MathematICAL Sciences coordinator, Clemson. Departmental EDI informational initiative
- 2012–2014 NDSU FORWARD Advocate coordinator, university's NSF ADVANCE institutional transformation program

EDI Awards

- 2023 Fellow of the Association for Women in Mathematics, national. Citation: *For her sustained advocacy, support and mentorship of women, girls, gender minorities, and other historically underrepresented groups in mathematics; and for spearheading local and national efforts targeting high-need areas to improve the working environment for all.*
- 2010 Tapestry of Diverse Talents, NDSU

Additional, Selected EDI Activities, External Funding, and Initiatives

- 2023–2026 AWM Microsoft Research Prize Selection Committee
- 2023 *Transgender and Nonbinary Mathematics Pride*, Notices of the AMS, invited essay
- 2023 *On Best Practices for the Recruitment, Retention, and Flourishing of LGBTQ+ Mathematicians*, with R. Buckmire, A. Folsom, C. Goff, A. Hoover, and J. Nakao, Notices of the AMS, invited article
- 2023 Joint Math. Meetings, Boston, Meet a Mathematician, invited speaker,
- 2022–present AWM Mentor Network, mentor
- 2022–2023 NSF IPA Grant, EES-2243134, \$619,563
- 2022 OURFA2M2, plenary speaker
- 2022 Arizona State University AWM/DEIB seminar, invited speaker
- 2022 Hidden No More: Overcoming the Global Barriers to Women's Participation and Advancement of STEM, A Joint Session of the US State Dept. & the National Academies Committee on Women in Sciences, Engineering, & Medicine, invited speaker
- 2022 Pronouns and Pronoun Usage, Clemson Department of Forestry and Environmental Conservation, invited presenter
- 2022 Math For All, invited workshop instructor and contributed speaker
- 2022 Spectra Workshop: Identifying Best Practices Fostering Inclusion and Retention of LGBTQ Mathematicians, invited panelist
- 2022 Truth Values Community Series invited podcast interviewee
- 2021 Celebrating PRIDE: Bringing your whole self to work! Wells Fargo, invited presenter
- 2021 GROW: Graduate Research Opportunities for Women, virtual, national conference, invited panelist
- 2021 Diversity in Science Seminar, Clemson College of Science, invited speaker.
- 2021 Screening Committee member, Clemson, search for AD for LGBTQ Initiatives
- 2021 Picture a Scientist invited panelist, virtual, Clemson. College panel
- 2020–present AWM poster session judge, Joint Math. Meetings.
- 2020 Trans Math Day, virtual, contributed speaker
- 2020 President's Social Justice and Equity Task Force, Subcommittee on Communication and Incidence Response member, Clemson. University task force
- 2019–2022 Search Advocate, Clemson. University-level program
- 2019–present MORE: Mathematics - Opportunities in Research and Education co-organizer, national undergraduate research and PD conference, funded by NSA and NSF
- 2018–present Wikipedia editor, fellow, trainer, funded by IAS Women & Mathematics grant, \$1,800

- 2016–2022 Mathematical Sciences Diversity Advocate, Clemson
 2015, 2018 SACNAS National Conference, PD panelist, and panel coorganizer/moderator
 2013–2015 NDSU Faculty Senate Committee on Equity and Diversity liaison
 2013 Expanding Your Horizons workshop leader, NDSU
 2010–2014 NDSU FORWARD: member of FORWARD Committee, Steering Committee, Task Force on Women Faculty with Disabilities, Internal Review Committee, university's NSF ADVANCE institutional transformation program
 2011–2013 NDSU Disability/Accessibility Initiatives Committee member
 2009–2011 North Dakota College Goal Sunday volunteer

OTHER LEADERSHIP

Additional University, College, and Departmental non-EDI Leadership Experience

- 2020–present Departmental Graduate Affairs Committee chair, Clemson
 2019–present Departmental Administrative Council member, Clemson
 2019–2020 Departmental Calculus and Precalculus Ad Hoc Committee chair, Clemson
 2019–2020 Departmental Curriculum Committee chair, Clemson
 2019–2020 Departmental Undergraduate Affairs Committee chair, Clemson
 2018 Departmental Interim Chair Search Committee chair, Clemson
 2017–2019 Departmental Algebra and Discrete Mathematics subfaculty coordinator, Clemson
 2014–2015 University Faculty Senate Coordinating Council member, NDSU
 2014–2015 University Faculty Senate President Elect, NDSU
 2013–2014 College Ad Hoc Committee on PTE Committee Composition chair, NDSU
 2012–2013 Departmental Promotion, Tenure, and Evaluation (PTE) Committee chair, NDSU
 2011–2015 Departmental Hiring Committee chair, NDSU
 2010–2015 Departmental Graduate Committee chair, NDSU
 2010–2013 Departmental Executive Committee member, NDSU
 2010 University Interdisciplinary Listening Group facilitator (chair), NDSU
 2009–2011, 2013–2014 College Chair's Council member, NDSU
 2009–2012 Departmental Assessment Committee chair, NDSU
 2008–2009, 2012–2013 Departmental Algebra Preliminary Examination Committee chair, NDSU
 2005 University Ad Hoc Enrollment Committee co-chair, CSUDH

RESEARCH

Web Resources

Offprints and Preprints: <https://ssather.people.clemson.edu/research.html>

Selected Slides and Lecture Notes: <https://ssather.people.clemson.edu/notes.html>

Research Honors and Fellowships

- 2011 College of Science and Mathematics Award for Excellence in Research, NDSU
 2003 General Membership, Mathematical Sciences Research Institute, Spring Semester, Year-Long Program in Commutative Algebra
 2000 Liftoff Mathematician, Clay Mathematics Institute
 1999–2000 University Research Fellowship, University of Utah College of Science

External Funding

- 2013–2015 NSA Standard Grant, PI, \$51,692
 2009–2010 NSA Young Investigators Grant, PI, \$30,000
 2006 NSA Conference Grant, PI, \$15,000
 2001–2004 NSF Mathematical Sciences Postdoctoral Research Fellowship, \$90,000

Significant Internal Funding

- 2021 Clemson Doctoral Dissertation Completion Grant for Hugh Geller: \$11,998
- 2014–2016 ND EPSCoR Doctoral Dissertation Assistantship for Hannah Altmann: \$42,406
- 2013–2015 ND EPSCoR Doctoral Dissertation Assistantship for Jonathan Totushek: \$39,160
- 2013–2015 NDSU Graduate College Doctoral Dissertation Fellowship for Saeed Nasseh: \$18,000
- 2013–2015 NDSU Graduate College Doctoral Dissertation Fellowship for Ben Anderson: \$21,333
- 2010–2011 ND EPSCoR IIP Seed Grant: \$29,000
- 2009–2011 ND EPSCoR Doctoral Dissertation Assistantship for Bethany Kubik: \$38,720
- 2006 Sally Casanova Memorial Mini-Grant, CSUDH, course buy-out

Refereed Research Publications, Appeared ¹

1. *Persistence of homology over commutative noetherian rings*, with L. L. Avramov, S. B. Iyengar, and S. Nasseh, *J. Algebra* **610** (2022), 463–490.
2. *Closed Neighborhood Ideals of Finite Simple Graphs*, with J. Honeycutt (U), *La Matematica* **1** (2022), 387–394.
3. *Adic semidualizing complexes*, with R. Wicklein (G), *J. Algebra Appl.* **21** (2022), no. 5, 27pp.
4. *Exterior powers and Tor-persistence*, with J. Lyle (G) and J. Montaña, *J. Pure Appl. Algebra* **226** (2022), no. 4, 7pp.
5. *On Gerko’s strongly Tor-independent modules*, with H. Altmann, *Women in Commutative Algebra - Proceedings of the 2019 WICA Workshop*, Association for Women in Mathematics Series (AWMS), **29**, (2021), 1–10.
6. *Ascent properties for test modules*, *Contemp. Math.*, **773**, (2021), 153–167.
7. *Adic Foxby classes*, with R. Wicklein (G), *Algebr. Represent. Theory*, **24**, (2021), 1155–1189.
8. *Generic constructions and semidualizing modules*, with T. Se (P) and S. Spiroff, *Algebr. Represent. Theory*, **24**, (2021), 1071–1081.
9. *Ladder determinantal rings over normal domains*, with T. Se (P) and S. Spiroff, *Comm. Algebra*, **49**, (2021), no. 7, 2804–2828.
10. *Complete intersection Hom injective dimension*, with J. Totushek, *Algebr. Represent. Theory*, **24**, (2021), no. 1, 149–167.
11. *The category of factorization*, with B. Goodell (G), *Appl. Categ. Structures*, **28**, (2020), no. 6, 975–1012.
12. *Semidualizing modules of 2×2 ladder determinantal rings*, with T. Se (P) and S. Spiroff, *J. Algebra*, **538**, (2019), 232–252.
13. *Homology over trivial extensions of commutative DG algebras*, with L. L. Avramov, S. B. Iyengar, and S. Nasseh, *Comm. Algebra*, **47**, (2019), no. 6, 2341–2356.
14. *On semidualizing modules of ladder determinantal rings*, with T. Se (P) and S. Spiroff, *Illinois J. Math.*, **63**, (2019), no. 1, 165–191.
15. *Gorenstein injective filtrations over Cohen-Macaulay rings with dualizing modules*, with A. J. Feickert (G), *Algebr. Represent. Theory*, **22**, (2019), no. 2, 297–319.
16. *Applications and homological properties of local rings with decomposable maximal ideals*, with S. Nasseh, R. Takahashi, and K. VandeBogert (G), *J. Pure Appl. Algebra*, **223**, (2019), no. 3, 1272–1287.
17. *On the structure of S_2 -ifications of complete local rings*, with S. Spiroff, *Rocky Mountain J. Math.*, **48**, (2018), no. 3, 947–965.
18. *Adically finite chain complexes*, with R. Wicklein (G), *J. Algebra Appl.*, **16**, (2017), no. 12, 23 pp.
19. *Vanishing of Ext and Tor over fiber products*, with S. Nasseh, *Proc. Amer. Math. Soc.*, **145**, (2017), no. 11, 4661–4674.
20. *Geometric aspects of representation theory for DG algebras: answering a question of Vasconcelos*, with S. Nasseh, *J. London Math. Soc. (2)*, **96**, (2017), no. 1, 271–292.

¹ Key: (P) postdoc, (G) graduate student, and (U) undergraduate student.

21. *Extension Groups for DG Modules*, with S. Nasseh, *Comm. Algebra*, **45**, (2017), no. 10, 4466–4476.
22. *Adic finiteness: bounding homology and applications*, with R. Wicklein (\mathbb{G}), *Comm. Algebra*, **45**, (2017), no. 9, 3893–3916.
23. *Support and adic finiteness for complexes*, with R. Wicklein (\mathbb{G}), *Comm. Algebra*, **45**, (2017), no. 6, 2569–2592.
24. *Extended local cohomology and local homology*, with R. Wicklein (\mathbb{G}), *Algebr. Represent. Theory*, **19**, (2016), no. 5, 1217–1238.
25. *Testing for the Gorenstein property*, with O. Celikbas (\mathbb{P}), *Collect. Math.*, **67**, (2016), no. 3, 555–568.
26. *Coherence conditions in flat regular pullbacks*, with J. Boynton, *J. Pure Appl. Algebra*, **220**, (2016), no. 9, 3067–3087.
27. *Contracting endomorphisms and dualizing complexes*, with S. Nasseh, *Czechoslovak Math. J.*, **65**, (2015), no. 3, 837–865.
28. *Krull dimension of monomial ideals in polynomial rings with real exponents*, with Z. Andersen (\mathbb{U}), *Comm. Algebra*, **43**, (2015), no. 8, 3411–3432.
29. *Using semidualizing complexes to detect Gorenstein rings*, with J. Totushek (\mathbb{G}), *Arch. Math. (Basel)*, **104**, (2015), no. 6, 523–529.
30. *Torsion in kernels of induced maps on divisor class groups*, with S. Spiroff, *J. Algebra Appl.*, **14**, (2015), no. 8, 23 pp.
31. *Path ideals of weighted graphs*, with B. Kubik, *J. Pure Appl. Algebra*, **219**, (2015), no. 9, 3889–3912.
32. *Cohen factorizations: weak functoriality and applications*, with S. Nasseh, *J. Pure Appl. Algebra*, **219**, (2015), no. 3, 622–645.²
33. *Reflexivity and connectedness*, *Glasgow Math. J.*, **57**, (2014), no. 1, 231–240.
34. *Ascent properties for pairs of modules*, *Arch. Math. (Basel)*, **103**, (2014), no. 3, 211–218.
35. *NAK for Ext and ascent of module structures*, with B. J. Anderson (\mathbb{G}), *Proc. Amer. Math. Soc.*, **142** (2014), no. 2, 1165–1174.
36. *Relative Tor functors with respect to a semidualizing module*, with M. Salimi, E. Tavasoli, and S. Yassemi, *Algebr. Represent. Theory*, **17** (2014), no. 1, 103–120.
37. *Homology of artinian and Matlis reflexive modules, II*, with B. Kubik (\mathbb{G}) and M. Leamer (\mathbb{G}), *J. Algebra*, **403**, (2014), no. 1, 229–272.
38. *Multiplicities of semidualizing modules*, with S. Cooper, *Comm. Algebra*, **41**, (2013), no. 12, 4549–4558.
39. *Decompositions of monomial ideals in real semigroup rings*, with D. Ingebreton (\mathbb{U}), *Comm. Algebra*, **41**, (2013), no. 11, 4363–4377.
40. *Krull dimension for differential graded algebras*, with K. A. Beck (\mathbb{P}), *Arch. Math. (Basel)*, **101**, (2013), no. 2, 111–119.
41. *Edge ideals of weighted graphs*, with C. Paulsen (\mathbb{U}), *J. Algebra Appl.*, **12** (2013), no. 5, 24 pp.
42. *Embedding modules of finite homological dimension*, *Glasgow Math. J.*, **55** (2013), no. 1, 85–96.
43. *Liftings and quasi-liftings of DG modules*, with S. Nasseh, *J. Algebra*, **373** (2013), 162–182.³
44. *On zero divisor graphs*, with J. Coykendall, L. Sheppardson, and S. Spiroff, *Progress in Commutative Algebra 2*, de Gruyter (2012), 241–299.
45. *Regular pullbacks*, with J. Boynton, *Progress in Commutative Algebra 2*, de Gruyter (2012), 145–169.
46. *Presentations of rings with non-trivial semidualizing modules*, with D. A. Jorgensen and G. J. Leuschke, *Collect. Math.* **63** (2012), no. 2, 165–180.

² This paper was on the list “Top 25 Hottest Articles” for this journal October–December 2014.

³ This paper was on the list “Top 25 Hottest Articles” for this journal October–December 2012.

47. *Lower bounds for the number of semidualizing complexes over a local ring*, Math. Scand. **110** (2012), no. 1, 5–17.
48. *Second symmetric powers of chain complexes*, with A. J. Frankild (\mathbb{P}) and A. Taylor, Bull. Iranian Math. Soc. **37** (2011), no. 3, 39–75.
49. *Homology of artinian and Matlis reflexive modules, I*, with B. Kubik (\mathbb{G}) and M. Leamer (\mathbb{G}), J. Pure Appl. Algebra **215** (2011), no. 10, 2486–2503.⁴
50. *AB-contexts and stability for Gorenstein flat modules with respect to semidualizing modules*, with T. Sharif and D. White, Algebr. Represent. Theory **14** (2011), no. 3, 403–428.
51. *Rings that are homologically of minimal multiplicity*, with K. Borna (\mathbb{G}) and S. Yassemi, Comm. Algebra **39** (2011), no. 3, 782–807.
52. *Tate cohomology with respect to semidualizing modules*, with T. Sharif and D. White, J. Algebra **324** (2010), no. 9, 2336–2368.⁵
53. *Comparison of relative cohomology theories with respect to semidualizing modules*, with T. Sharif and D. White, Math. Z. **264** (2010), no. 3, 571–600.
54. *Transfer of Gorenstein dimensions along ring homomorphisms*, with L. W. Christensen, J. Pure Appl. Algebra **214** (2010), no. 6, 982–989.⁶
55. *Bass numbers and semidualizing complexes*, Commutative Algebra and its Applications, de Gruyter (2009), 349–381.
56. *Descent via Koszul extensions*, with L. W. Christensen, J. Algebra **322** (2009), no. 9, 3026–3046.
57. *Modules of finite homological dimension with respect to a semidualizing module*, with S. Yassemi, Arch. Math. (Basel) **93** (2009), no. 2, 111–121.
58. *Maps on divisor class groups induced by ring homomorphisms of finite flat dimension*, with S. Spiroff, J. Commut. Algebra **1** (2009), no. 3, 567–590.
59. *Relations between semidualizing complexes*, with A. J. Frankild (\mathbb{P}) and A. Taylor, J. Commut. Algebra **1** (2009), no. 3, 393–436.
60. *Gorenstein cohomology in abelian categories*, with T. Sharif and D. White (\mathbb{G}), J. Math. Kyoto Univ. **48** (2008), no. 3, 571–596.
61. *A Cohen-Macaulay algebra has only finitely many semidualizing modules*, with L. W. Christensen, Math. Proc. Cambridge Philos. Soc. **145** (2008), no. 3, 601–603.
62. *Complete intersection dimensions and Foxby classes*, J. Pure Appl. Algebra **212** (2008), no. 12, 2594–2611.
63. *Ascent of module structures, vanishing of Ext, and extended modules*, with A. J. Frankild (\mathbb{P}) and R. A. Wiegand, Michigan Math. J. **57** (2008), 321–337.
64. *An Euler characteristic for modules of finite G-dimension*, with D. White (\mathbb{G}), Math. Scand. **102** (2008), no. 2, 206–230.
65. *Stability of Gorenstein categories*, with T. Sharif and D. White (\mathbb{G}), J. London Math. Soc.(2) **77** (2008), no. 2, 481–502.
66. *Detecting completeness from Ext-vanishing*, with A. J. Frankild (\mathbb{P}), Proc. Amer. Math. Soc. **136** (2008), no. 7, 2303–2312.
67. *Semidualizing modules and the divisor class group*, Illinois J. Math. **51** (2007), no. 1, 255–285.
68. *Reflexivity and ring homomorphisms of finite flat dimension*, with A. Frankild (\mathbb{P}), Comm. Algebra **35** (2007), no. 2, 461–500.⁷
69. *The set of semidualizing complexes is a nontrivial metric space*, with A. Frankild (\mathbb{P}), J. Algebra **308** (2007), no. 1, 124–143.

⁴ This paper was on the list “Top 25 Hottest Articles” for this journal April–June 2010.

⁵ This paper was on the list “Top 25 Hottest Articles” for this journal July–September 2010.

⁶ This paper was on the list “Top 25 Hottest Articles” for this journal October–December 2009, April–June 2010, October 2009–September 2010 (academic year), October–December 2010, January–March 2011.

⁷ This paper was one of the top ten cited articles for Comm. Algebra in the years 2006–2010.

70. *Characterizing local rings via homological dimensions and regular sequences*, with S. Salarian and S. Yassemi, *J. Pure Appl. Algebra* **207** (2006), no. 1, 99–108.⁸
71. *Complete intersection dimension for complexes*, *J. Pure Appl. Algebra* **190** (2004), no. 1–3, 267–290.⁹
72. *G-dimension over local homomorphisms. Applications to the Frobenius endomorphism*, with S. Iyengar, *Illinois J. Math.* **48** (2004), no. 1, 241–272.
73. *On symbolic powers of prime ideals*, *Commutative algebra. Interactions with Algebraic Geometry*, *Contemp. Math.* **331** (2003), 329–342.
74. *Intersections of symbolic powers of prime ideals*, *J. London Math. Soc. (2)* **65** (2002), no. 3, 560–574.
75. *A dimension inequality for Cohen-Macaulay rings*, *Trans. Amer. Math. Soc.* **354** (2002), 993–1005.
76. *Multiplicities and a dimension inequality for unmixed modules*, *J. Algebra* **238** (2001), 372–388.

Research Articles, Submitted

1. *Irreducible divisor pair domains*, (2019) [arxiv:1903.03870](https://arxiv.org/abs/1903.03870)
2. *Basically regular local homomorphisms*, with S. Bouchiba and S. Kabbaj, (2022) [arxiv:2205.14279](https://arxiv.org/abs/2205.14279)

Other Refereed Publications

1. *Applications of Differential Graded Algebra Techniques in Commutative Algebra*, with S. Nasseh, *Commutative Algebra*, Springer, (2022), 589–616.
2. *Monomial Ideals and their Decompositions*, with W. F. Moore and M. Rogers, Universitext. Springer, Cham, 2018. xxiv+387 pp.
3. *A somewhat gentle introduction to differential graded commutative algebra*, with K. Beck (\mathbb{P}), *Connections between Algebra, Combinatorics, and Geometry*, Springer Proceedings in Mathematics and Statistics **76** (2014), 3–99.

Invited Mathematics Conference and Workshop Lectures

- 2023 Joint Math. Meetings, Boston:
- AMS Special Session on Topological and Combinatorial Methods in Commutative Algebra
 - AWM Special Session on Celebrating the Mathematical Contributions of AWM
 - Spectra Special Session on Research by LGBTQ+ Mathematicians,
- 2022 Workshop on Applications of DG Homological Algebra in Commutative Algebra (minicourse) and 18th Commutative Algebra Seminar (plenary), IPM, Tehran, Iran (virtual)
- AMS Special Session on Commutative Algebra, University of Denver (virtual)
 - AMS Special Session on Combinatorial Methods in Commutative Algebra, Tufts (virtual)
 - $\text{Spec}(\mathbb{Q})$, Fields Institute (virtual speaker)
 - George Mason University Mathematical Sciences Colloquium
 - Arizona State University Mathematical and Statistical Sciences Colloquium
- 2021 AMS Special Session on Current Trends in Combinatorial and Homological Commutative Algebra, University of South Alabama (virtual)
- AMS Special Session on Differential Graded Methods in Commutative Algebra, Georgia Tech University (virtual)
 - AMS Special Session on Commutative Algebra, Brown University (virtual)
- 2020 AMS Special Session on DG Methods in Commutative Algebra and Representation Theory, California State University, Fresno (virtual)
- AMS Special Session on Homological Methods in Algebra, Penn State University (virtual)
- 2019 AMS Special Session on Developments in Commutative Algebra, Auburn University
- Morgantown Algebra Days, West Virginia University

⁸ This paper was on the list “Top 25 Hottest Articles” for this journal July–September 2008.

⁹ This paper was on the list “Top 25 Hottest Articles” for this journal October–December 2006.

- Second International Meeting in Commutative Algebra and its Related Areas, Universidade de São Paulo, Brazil
- AMS Special Session on Commutative Algebra: in Celebration of the 150th birthday of Roger and Sylvia Wiegand, University of Wisconsin-Madison
- AMS Special Session on Homological Methods in Algebra, University of Florida
- 2018 Mini-Workshop on Commutative Algebra, University of Virginia
 - AMS Special Session on Commutative Algebra, University of Delaware
 - AMS Special Session on Commutative Ring Theory, University of Michigan
- 2017 AMS Special Session on Commutative Algebra, Indiana University, Bloomington
 - AMS Special Session on Commutative Algebra, Washington State University
 - AMS Special Session on Commutative Algebra: Interactions with Algebraic Geometry and Algebraic Topology, University of Central Florida
- 2016 AMS Special Session on Commutative Algebra, University of Georgia
 - Homological Methods in Algebraic Structures, Georgia Southern University
 - AMS Special Session on Homological Methods in Commutative Algebra, North Carolina State University at Raleigh
- 2015 International Conference in Homological Algebra, University of Kentucky
 - AMS Special Session on Recent Advances in Commutative Algebra, University of Memphis
 - AMS Special Session on Homological Methods in Commutative Algebra, California State University, Fullerton
- 2014 AMS Special Session on Interactions in Commutative Algebra, University of New Mexico
 - AMS Special Session Commutative Algebra, University of New Mexico
 - AMS Special Session on Interactions Between Commutative Algebra and Algebraic Geometry, Texas Tech University
 - AMS Special Session on Directions in Commutative Algebra: Past, Present and Future, University of Wisconsin-Eau Claire
 - AMS Special Session on Directions in Commutative Ring Theory, University of Wisconsin-Eau Claire
 - AMS Special Session on Commutative Algebra and Its Interactions with Algebraic Geometry, Dalhousie University
- 2013 AMS Special Session on Commutative Ring Theory, Iowa State University
 - AMS Special Session on Commutative Rings, Ideals, and Modules, University of Louisville
 - AMS Special Session on Commutative Algebra and its Interaction with Algebraic Geometry and Combinatorics, University of California Riverside
- 2012 AMS Special Session on Singularities in Commutative Algebra and Algebraic Geometry, University of Kansas
 - Summer School on Algebra and Geometry, University of Regina
 - AMS Special Session on Topics in Commutative Algebra, University of Arizona
- 2011 AMS Special Session on Commutative Ring Theory, University of Iowa
 - Commutative Algebra Conference Factorization and Zero-Divisor Graphs, University of Iowa
 - AMS Special Session on Algebraic Geometry and Graded Commutative Algebra, University of Nebraska-Lincoln
- 2010 GSSCCF Commutative Algebra Meeting, University of Central Florida
 - CIMPA-TUBITAK Conference on Commutative Algebra and Applications to Combinatorics and Algebraic Geometry, Galatasaray University, Istanbul, Turkey
 - AMS Special Session on Commutative Algebra and Its Interactions with Algebraic Geometry, Notre Dame University
- 2009 4th World Conference on 21st Century Mathematics, Abdus Salam School of Mathematical Sciences, Lahore, Pakistan
 - AMS Special Session on Local and Homological Methods in Commutative Algebra, University of Illinois at Urbana-Champaign

- AMS Special Session on Commutative Algebra: Module and Ideal Theory, Baylor University
- 2008 Commutative Algebra: Connections with Algebraic Topology and Representation Theory, University of Nebraska-Lincoln
- AMS Special Session on Hilbert Functions & Free Resolutions, University of British Columbia
- 2007 BIRS workshop “Commutative Algebra and its Interaction with Algebraic Geometry,” Banff, Canada
- AMS Special Session on Free Resolutions, DePaul University
- 2006 Homological Conjectures in Commutative Algebra; A Conference in Honor of Paul Roberts’ Sixtieth Birthday, Snowbird, UT
- AMS Special Session on Commutative Algebra, University of Utah
- Route 81 Conference on Algebraic Geometry and Commutative Algebra, Syracuse University
- 2005 Nebraska Commutative Algebra Conference: WiegandFest, University of Nebraska-Lincoln
- Commutative Algebra Conference honoring the contributions of Phillip Griffith, University of Illinois at Urbana-Champaign
- AMS Special Session on Homological Aspects of Commutative Algebra, Bard College
- 2004 AMS Special Session on Syzygies and Hilbert Functions, Florida State University
- AMS Special Session on the Homological Algebra of Commutative Rings, Houston, TX
- Four lectures in the mini-course “Classical Problems in Commutative Algebra,” University of Utah
- BIRS workshop “Commutative Algebra: Homological and Birational Theory,” Banff, Canada
- Workshop on Resolutions for Young Researchers, Cornell University
- AMS Special Session on Local and Homological Algebra, Vanderbilt University
- KUMUNU 6, University of Kansas
- 2003 AMS-IMS-SIAM Summer Research Conference, Commutative Algebra: Presentations by Young Researchers, Snowbird, UT
- 2002 AMS Special Session on Commutative Algebra and Algebraic Geometry, San Diego, CA
- 2001 Algebra Weekend 2001, University of Missouri, Columbia
- Colloque «Algèbre Commutative», Institut Fourier, Grenoble, France
- AMS Special Session on Commutative Algebra, Williams College
- 2000 AMS Special Session on Algebraic Geometry and Commutative Algebra, Washington, DC
- Centennial Celebration of Commutative Algebra, University of Nebraska-Lincoln
- 1999 AMS Special Session on Algebraic Geometry and Commutative Algebra, University of North Texas
- AMS Special Session on Commutative Algebra, University of Utah
- Midwest Algebraic Geometry Conference, University of Missouri, Columbia

Departmental Seminars and Colloquia Given ¹⁰

- 2022 Virtual Commutative Algebra Seminar, IIT Bombay (virtual)
- 2020 Algebra and Geometry Seminar, Iowa State University (virtual)
 - Algebra Seminar, Syracuse University (virtual)
- 2019 Geometry, Algebra, Singularities, Combinatorics Seminar; Northeastern University
- 2018 Algebra Seminar, University of Arkansas
- 2017 Algebra Seminar, Georgia State University
 - Algebra and Number Theory Seminar, University of Mississippi
- 2016 Algebraic Geometry, Arithmetic Geometry, and Commutative Algebra Seminar, University of South Carolina
 - Mathematical Sciences Colloquium, Georgia Southern University
 - Mathematics and Statistics Departmental Colloquium, Auburn University
 - Mathematics Departmental Colloquium, West Virginia University

¹⁰ Job talks and colloquia/seminars given at home institution not listed.

- 2015 Algebra and Number Theory Seminar, Representation Theory and Commutative Algebra Seminar, and Mathematics Colloquium, University of Connecticut
- 2014 Commutative Algebra Seminar, University of Utah
- 2013 Algebra Seminar, Central Michigan University
- 2012 Algebra Seminar, University of Texas at Arlington
 - Mathematics and Statistics Department Colloquium, University of Regina
 - Algebra Seminar, Wake Forest University
 - Algebra and Number Theory Seminar, University of Arizona
 - Undergraduate Mathematics Seminar, University of Arizona
- 2011 Commutative Algebra Seminar, University of California, Riverside
- 2010 Mathematics Department Colloquium, University of Mississippi
 - Commutative Algebra Seminar, University of Nebraska-Lincoln
 - Algebra Seminar, University of Kansas
- 2009 Representation Theory Seminar and Geometry, Algebra, Singularities and Combinatorics Seminar, Northeastern University
- 2008 Mathematics Department Colloquium and Algebra Seminar, Texas Tech University
 - Short Course (ten lectures), School of Mathematics, Institute for Studies in Theoretical Physics and Mathematics, Tehran, Iran
 - Commutative Algebra Seminar, University of Michigan
- 2007 Mathematics Department Colloquium, University of Copenhagen,
- 2006 Commutative Algebra Seminar, University of Nebraska-Lincoln
 - Commutative Algebra Seminar, University of California at Riverside
 - Mathematics Department Colloquium, University of Copenhagen,
- 2002 Commutative Algebra Seminar University of Kansas
 - Commutative Algebra Seminar, Purdue University
- 2000 Commutative Algebra Seminar University of Kansas
- 1999 Mathematics Department Undergraduate Colloquium, University of California at Berkeley
 - Mathematics Department Colloquium, San Francisco State University

Other Lectures and Panels

- 2021 Panel discussion as part of Clemson SMSS REU, virtual, panelist
- 2018 Math Club, University of Wisconsin-Superior, speaker
- 2015 Faculty Involvement and Academic Citizenship, presenter
- 2014 Panel Discussion on Graduate School, University of Utah, panelist
- 2012 Open Forum on Faculty Disability Survey, NDSU, co-presenter
 - Panel Discussion on Graduate School, Wake Forest University, panelist
- 2011 Pedagogical Luncheon, NDSU, co-presenter
- 2010 Science Cafe, NDSU, speaker
- 2009 World iView Speaker Series, NDSU, speaker
 - Simple Facts and Big Questions, a Multi-disciplinary Panel Discussion in Connection with the Mathematics of Ecstasy exhibition, NDSU, panelist

MENTORING

Mentoring Honors and Fellowships

- 2017, 2021 Mathematical Sciences Outstanding Service to Graduate Students, Clemson
- 2015 University Mentoring Excellence Award, NDSU
- 2006 Early-career faculty member, University of Nebraska-Lincoln, Intensive Mathematics: a Mentoring, Education and Research Summer Experience

Postdoctoral Mentoring

- 2021-present Joseph Skelton, Clemson.

- 2017–2019 Pye Aung, Clemson.
Current Position: Visiting Assistant Professor, James Madison University
- 2014–2015 Trevor McGuire, NDSU
Current Position: Data Engineer, Perspecta, Richmond, Virginia

PhD Students Advised

- current Hao Chen, Clemson (anticipated advance to candidacy summer 2022)
- current Michael Nelson, Clemson advanced to candidacy April 2022, antic. grad. Aug 2023
- 2022 Michael Cowen, Clemson University
Dissertation: *Characterizing Unmixed Trees and Coronas with Respect to PMU Covers*
Current Position: Visiting Assistant Professor, Sewanee: The University of the South
- 2022 Todd Morra, Clemson University
Dissertation: *Minimal Differential Graded Algebra Resolutions Related to Certain Stanley-Reisner Rings*
Current Position: Epic
- 2022 Shuai Wei, Clemson University
Dissertation: *Cohen-Macaulay Type of Certain Square-Free Monomial Ideals*
Current Position: postdoc, University of New Mexico
- 2021 Hugh Geller, Clemson University
Dissertation: *Minimal Differential Graded Resolutions of Fiber Products*
Current Position: postdoc, University of West Virginia
- 2021 James Gossell, Clemson University
Dissertation: *Characterizing unmixed trees with respect to total domination and PMU covers*
Current Position: Visiting Assistant Professor, University of Alaska Fairbanks
- 2015 Hannah Altmann, NDSU
Dissertation: *Semidualizing DG Modules over Tensor Products*
Current Position: Assistant Professor, Dakota State University
- 2015 Jonathan Totushek, NDSU
Dissertation: *Homological Dimensions with respect to a Semidualizing Complex*
Current Position: Associate Professor and Chair, University of Wisconsin-Superior
- 2015 Pye Aung, NDSU
Dissertation: *Gorenstein Dimensions over Some Rings of the Form $R \oplus C$*
Current Position: Visiting Assistant Professor, James Madison University
- 2013 Saeed Nasseh, NDSU
Dissertation: *DG Homological Algebra, Properties of Ring Homomorphisms, and the Generalized Auslander-Reiten Conjecture*
Current Position: Associate Professor, Georgia Southern University
- 2013 Richard Wicklein, NDSU
Dissertation: *Codualizing Modules and Complexes*
Current Position: Assistant Professor, Dakota State University
- 2012 Benjamin Anderson, NDSU
Dissertation: *NAK for Ext, Ascent of Module Structures, and the Blindness of Extended Modules*
Current position: Visiting Assistant Professor, University of Wisconsin-La Crosse
- 2011 Bethany Kubik, NDSU
Dissertation: *Quasidualizing Modules*
Current position: Associate Professor, University of Minnesota Duluth
- 2007 Diana White, University of Nebraska-Lincoln
Dissertation: *Proper Resolutions and their Applications*
Current position: Associate Professor, University of Colorado Denver

MS Students Advised

- current Jackson Leaman, Clemson University (anticipated graduation May 2023)
- current Jounlag (John) Lim, Clemson University (anticipated graduation Aug 2023)
- 2022 Nathan Fontes, Clemson University
Thesis: *Lyubeznik Ideals Minimally Generated by Four or Fewer Elements*
Current Position: Lecturer, Penn State
- 2021 James (McKay) Visser, Clemson University
Thesis: *The Scarf Complex of Weighted Edge Ideals*
Current Position: PhD student, Clemson University, Mathematical and Statistical Sciences
- 2019 Shuai Wei, Clemson University
Thesis: *Cohen-Macaulay Type of Weighted Edge Ideals and Path Ideals*
Current Position: PhD student, Clemson University, Mathematical and Statistical Sciences
- 2018 Todd Morra, Clemson University
Thesis: *An Introduction to Homological Algebra and its Applications*
Current Position: PhD student, Clemson University, Mathematical and Statistical Sciences
- 2014 Aaron Feickert, NDSU
Paper: *Resolutions and Semidualizing Modules*
Current Position: Research Scientist, Monero Research Lab

Other Graduate Student Mentoring

- Mathematical Sciences Ph.D. Supervisory Committees at Clemson: Brandon Goodell (2017), Daozhou Zhu (2022), Todd Fenstermacher (2022), Yunan Wang (TBD)
- Engineering and Science Education Department (ESED) Ph.D. Supervisory Committees at Clemson: Rachel Lanning, Tyler Sullivan
- Mathematical Sciences M.S. Supervisory Committees at Clemson: Todd Fenstermacher (2017), Daozhou Zhu (2018), Candace Barnes (2019), Zachary Johnston (2019), Philip de Castro (2020), Andrew Pitman (2020), Joe Swanson (2020); Brandon Cook (anticipated 2021), Grant Moles (anticipated 2021)
- General Mathematical Sciences graduate advising at Clemson: James Gossell, Rodrigo Smith, Anna Marie Vagnozzi
- Mathematics Ph.D. Supervisory Committees, external member
Ali Alilooee Dolatabad (Dalhousie, 2015), Nursel Erey (Dalhousie, 2015)
- Mathematics Ph.D. Supervisory Committees at NDSU
Stacy Trentham (2011), William Trentham (2011), Mark Batell (2014), Thomas Dunn (2015)
- Non-Mathematics Supervisory Committees at NDSU
Travis Docktor (M.S., 2012), Emma Swanson (M.S., 2012), Xiao Zhang (M.S., 2013), Amorette Hinderaker (Ph.D., 2013), Amanda Schwartz (Ph.D., 2013), Joshua Morman (M.S., 2014)
- Preliminary Examination Committees at University of Illinois at Urbana-Champaign
Jinjia Li, Andrew Richardson, Sandra Spiroff (all 2002)

Undergraduate Student Mentoring

- 2020–2021 Success Matters, advisor for at-risk Mathematical Sciences majors
- 2020 REU: Devyn Adams, Caroline Daw, Matt Schaller, Susan Tarabulsi, Zoe Zhou, Clemson
- 2020 Independent grant writing project: Isabella Ziolek
- 2016–2022 Undergraduate research, Aayahna Herbert, Jacob Honeycutt, Hannah Kimbrell, Jackson Leaman, Ande van der Bijl, Clemson
- 2012–2013 McNair Scholar and senior seminar, Zechariah Andersen, NDSU
- 2009 Faculty In Residence Education Program, First Year Experience Faculty Mentor, NDSU
- 2008–2012 Senior seminar, Jessica Baer, Benjamin Bechtold, Dan Ingebretson, Conrad Olson, Chelsey Paulsen, Andrew Solberg, Zach Sundheim, Kristen Vetter, NDSU
- 2006 Research project, David Rodarte, CSUDH

REU Directed in Mathematics and Statistics, Virtual

2020 COURAGE: Clemson Online Undergraduate Research on Algebra and Graphs Expanded

Other Mentoring Activities

- 2021–present University Faculty Mentoring Committee member
 2020–2022 Associate Professor Faculty Mentoring Program mentor, Clemson, college level
 2019–2020 Task Force on Faculty Mentoring and Professional Development member, Clemson, university level
 2019–2020 Assistant Professor Faculty Mentoring Program mentor, Clemson, college level
 2016–2018 MAA Early Career Mathematicians Mentoring Network, mentor, national
 2014 New Faculty Cohort Mentoring Programs, mentor, NDSU, university level

OTHER SERVICE**Editing**

- Archiv der Mathematik, Editor, 2017–2022
 Czechoslovak Mathematical Journal, Editor, 2017–2022
 Journal of Commutative Algebra, Co-Managing Editor, 2017–2020;
 Associate Editor 2012–2016; guest editor, vol. 1, no. 3, 2009; Editorial Assistant 2009–2012
 Khayyam Journal of Mathematics, Associate Editor, 2016–2022
 Progress in Commutative Algebra 1–2, de Gruyter, co-editor, 2012
 Connections Between Algebra, Combinatorics, and Geometry, Birkhauser, co-editor, 2014

Conferences, Panels, Schools, and Special Sessions Co-organized

- 2022 Special Session on Combinatorial Commutative Algebra, AMS Sectional Meeting, University of Tennessee at Chattanooga
 - Special Session on Commutative Algebra, Joint Math. Meetings, Seattle, WA (virtual)
 2021 Special Session on Commutative Algebra, Joint Math. Meetings, Washington, DC (virtual)
 - Special Session on Commutative Algebra, AMS Sectional Meeting, U. of Cincinnati (virtual)
 - Special Session on Commutative Algebra, AMS Sectional Meeting, SFSU (virtual)
 - Trans Math Days (virtual)
 2020 Special Session on Commutative Algebra, AMS Sectional Meeting, University of Virginia, (the in-person conference was cancelled due to coronavirus concerns, so we ran part of the session remotely)
 - Morgantown Algebra Days 2020, West Virginia University (postponed due to coronavirus concerns)
 - CAZoom, virtual commutative algebra research conference
 - Special Session on Free Resolutions, Combinatorics, and Geometry, AMS Sectional Meeting, University of Texas at El Paso (virtual)
 - Special Session on Homological Commutative Algebra, AMS Sectional Meeting, University of Tennessee at Chattanooga (virtual)
 2018 Special Session on Homological Commutative Algebra, AMS Sectional Meeting, Northeastern University
 2017 Special Session on Commutative Algebra, AMS Sectional Meeting, College of Charleston
 2016 Special Session on Commutative Ring Theory, AMS Sectional Meeting, North Dakota State University
 2014 Special Session on Homological and Characteristic p Methods in Commutative Algebra, Joint Mathematics Meetings, Baltimore, MD
 2013 Special Session on Commutative Algebra, AMS Sectional Meeting, University of Mississippi
 - Further Connections Between Algebra and Geometry, North Dakota State University
 2012 Special Session on Interactions Between Algebraic Geometry and Commutative Algebra, CMS 2012 Summer Meeting, University of Regina

- Workshop on Connections between Algebra and Geometry, University of Regina
- Special Session on Commutative Algebra, AMS Sectional Meeting, University of Akron
- 2010 Special Session on Commutative Algebra, Joint Mathematics Meetings, San Francisco, CA
- 2009 Special Session on Homological Aspects of Module Theory, AMS Sectional Meeting, Florida Atlantic University
- 2008 Special Session on Progress in Commutative Algebra, Joint Mathematics Meetings, San Diego, CA
 - Mathematics on the Northern Plains, NDSU
- 2006 Special Session on Resolutions and Hilbert Functions, AMS Sectional Meeting, San Francisco State University
 - Homological conjectures in commutative algebra: A conference in honor of Paul C. Roberts, Snowbird, UT
 - Kent Regional Algebra Weekend, Kent State University
- 2005 Special Session in Commutative Algebra, Joint Mathematics Meetings, Atlanta, GA
 - Special Session in Commutative Algebra, AMS Sectional Meeting, University of Nebraska-Lincoln

Seminars Organized and Co-organized in Mathematics

- 2020–2022 Commutative and Homological Algebra Market Presentations (CHAMP), virtual
- 2017–2018 ADM Seminar, Clemson
 - 2014 Koszul Seminar, NDSU
- 2013–2014 *N*th Year Graduate Seminar, NDSU
- 2012, 2013 Spectral Sequences Seminar, NDSU
 - 2012 Completion Seminar, NDSU
 - 2011 Semidualizing Modules Seminar, Eisenbud Seminar, NDSU
- 2010–2013 Teaching/First Year Graduate Seminar, NDSU
- 2010–2011 Koszul Seminar, NDSU
 - 2010 Semidualizing Modules and Completions Seminar, NDSU
- 2007–2008 Homological Algebra Seminar, NDSU
- 2006–2007 Homological Algebra Seminar, Kent State University
 - Undergraduate Colloquium, Kent State University
- 2004 Research Among Peers, University of Illinois at Urbana-Champaign
 - Research Experience for Grad Students, University of Illinois at Urbana-Champaign
- 2001–2002 Math 500, University of Illinois at Urbana-Champaign
- 2000–2004 Commutative Ring Theory Seminar, University of Illinois at Urbana-Champaign
- 2000–2002 Research Among Peers, University of Illinois at Urbana-Champaign
- 1999–2000 Graduate Colloquium, University of Utah
- 1998–2000 Commutative Algebra Seminar, University of Utah

Refereeing and Reviewing

- Referee for: *Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg*; *Advances in Mathematics*; *Advances in Mathematics (China)*; *AJSE-Mathematics*; *Algebra Colloquium*; *Algebras and Representation Theory*; *American Mathematical Monthly*; *Arabian Journal of Mathematics*; *Archiv der Mathematik*; *Arkiv för Matematik*; *Beiträge zur Algebra und Geometrie*; *Bulletin des Sciences Mathématiques*; *Bulletin of the Australian Mathematical Society*; *Bulletin of the Belgian Mathematical Society*; *Bulletin of the Iranian Mathematical Society*; *Bulletin of the Korean Mathematical Society*; *Bulletin of the London Mathematical Society*; *Bulletin of the Malaysian Mathematical Sciences Society*; *Bulletin of the Romanian Mathematical Society*; *Canadian Mathematical Bulletin*; *Canadian Journal of Mathematics*; *Central European Journal of Mathematics*; *Communications in Algebra*; *Czechoslovak Mathematical Journal*; *Discussiones Mathematicae, General Algebra and Applications*; *Forum Mathematicum*; *Glasgow Mathematical Journal*; *Homology, Homotopy and Applications*; *Illinois Journal of Mathematics*; *Indian*

Journal of Pure and Applied Mathematics; International Electronic Journal of Algebra; International Journal of Algebra and Computation; International Journal of Mathematics; Inventiones Mathematicae; Israel Journal of Mathematics; Italian Journal of Pure and Applied Mathematics; Journal of Algebra; Journal of Algebraic Systems; Journal of Algebra and Its Applications; Journal of the Australian Mathematical Society; Journal of Commutative Algebra; Journal of the Korean Mathematical Society; Journal of the London Mathematical Society; Kodai Mathematical Journal; Mathematica Slovaca; Mathematical Notes; Matematicki Vesnik; Mathematische Zeitschrift; Mediterranean Journal of Mathematics; Michigan Mathematical Journal; Nagoya Mathematical Journal; Osaka Journal of Mathematics; Pacific Journal of Mathematics; Proceedings of the American Mathematical Society; Proceedings of the Edinburgh Mathematical Society; Publicacions Matemàtiques; Quaestiones Mathematicae; Rendiconti del Seminario Matematico di Padova; Results in Mathematics; Rocky Mountain Journal of Mathematics; Science China Mathematics; Studia Scientiarum Mathematicarum Hungarica; Turkish Journal of Mathematics

- Reviewer for: Banff International Research Station, Cambridge University Press, Mathematical Reviews, NSF, NSA, SACNAS, Springer Verlag

Other University Service

2019–2022 University Admissions Committee member, Clemson
 2021 Faculty Pandemic Advisory Group member, Clemson
 2014 University Strategic Planning, Learning Task Force member, NDSU
 2013–2015 Faculty Senate Executive Committee member, NDSU
 2013–2014 University/Faculty Senator, NDSU
 2013 Graduate School Review Panel for Doctoral Dissertation Fellowships panelist, NDSU
 2013 Presidential Task Force on Academic Freedom member, NDSU
 2012–2014 Academic Honesty for Mathematics Tutors trainer, ACE, NDSU
 2011 Summer STEM Internship Program Symposium judge, NDSU
 2010–2013 Commencement Marshal, NDSU
 2010–2011 Instructional Development Committee member, NDSU
 2010 University/Faculty Senate Special Committee on Academic Dishonesty member, NDSU
 2009–2011 University/Faculty Senate Executive Committee member, NDSU
 2008–2011 University/Faculty Senator, NDSU
 2005–2006 Enrollment Management Policy Council—Outreach and Recruitment Task Force member, CSUDH
 1996–1999 Campus-Wide New TA Orientation panelist and facilitator, University of Utah Center for Teaching and Learning Excellence

Other College Service

2020–2021 Scholarships and Awards Committee member, Clemson
 2019–2020 Curriculum Committee member, Clemson
 2017 Associate Dean Search Committee member, Clemson
 2016–2017 College Faculty Advisory Committee member, Clemson
 2009 Ad Hoc Committee on Academic Honesty member, NDSU
 2009 Teaching Seminar panelist, NDSU
 2009 Junior Faculty Seminar panelist, NDSU
 1998 Retention-Promotion-Tenure Committee member, University of Utah

Other Department/School Service

2022 Student Services Coordinator hiring committee chair
 2019–present Tenure, Promotion, and Reappointment committee member, Clemson
 2019–2021 Calculus Fight Club advisor, Clemson
 2019–2020 Promotion, Appointment and Reappointment committee member, Clemson
 2019 Director Search Committee member, Clemson

- 2019 Clemson Calculus Challenge volunteer
- 2017–2020 Algebra Preliminary Examination Committee, Clemson
- 2016–2017, 2018–present Mathematical (and Statistical) Sciences Council member, Clemson
- 2016 Ad hoc committee on associate chairs member, Clemson
- 2015–2020 Mathematical Sciences newsletter editor and social media coordinator, Clemson
- 2015–2016 Clemson Calculus Challenge Committee member
- 2014–2015 Faculty advisor for Mathematics Graduate Student Organization, NDSU
- 2013 Working Group on Faculty Evaluation member, NDSU
- 2012–2014 PTE Committee member, NDSU
- 2010–2013 Mathematics Scholarship Committee member, NDSU
- 2009 North Dakota Governor’s School instructor, short course on Elliptic Curves, NDSU
- 2008–2009 Assessment Committee member, NDSU
- 2008–2010 Algebra Preliminary Examination Committee member (08–10, 12–14), NDSU
- 2008–2009 Webmaster, NDSU
- 2007–2009 Hiring Committee member, NDSU
- 2007–2009 Colloquium Director, NDSU
- 2006 Putnam Exam preparation workshop co-organizer, Kent State University
- 2005–2006 By-laws Committee member CSUDH
- 2005–2006 Library and Support for Faculty Research Committee member, CSUDH
- 2005–2006 Enrollment Management, Outreach, and Recruitment of Students Committee member, CSUDH
- 2005–2006 Outreach Liaison, CSUDH
- 2003 New TA Orientation presenter, University of Illinois at Urbana-Champaign
- 2002–2003 Graduate Seminar in Commutative Algebra and Algebraic Geometry faculty advisor, University of Illinois at Urbana-Champaign
- 2002 Graduate Student Job Panel panelist, University of Illinois at Urbana-Champaign
- 1998, 1999 New TA Orientation facilitator , University of Utah
- 1996–2000 Graduate Student Advisory Committee member, University of Utah

Other Service to the Profession/Community

- 2009 Sullivan Middle School Science Fair judge
- 2009 Tri-College Math Contest volunteer
- 2008–2010 North Dakota Southeast Regional Science and Engineering Fair judge
- 2004 15th Annual Math Day moderator, University of Nebraska-Lincoln
- 2004 Association for Women in Mathematics Essay Contest judge
- 2002, 2004 Illinois Council of Teachers of Mathematics State Math Contest judge
- 2002 Organizing Committee member, Commutative Algebra Section of arxiv.org
- 2001–2015 commalg.org co-founder and co-webmaster

Memberships

- American Association of University Professors (AAUP)
- American Mathematical Society (AMS)
- Association for Women in Mathematics (AWM)
- National Association of Mathematicians (NAM)
- Society for Advancement of Chicanos and Native Americans in Science (SACNAS)
- Society for Industrial and Applied Mathematics (SIAM)
- Spectra, The Association for LGBT Mathematicians