

SUSAN LOEPP

Department of Mathematics and Statistics
33 Stetson Ct.
Williams College
Williamstown, MA 01267
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Curriculum Vitae

EDUCATION

Ph.D.: Mathematics, University of Texas at Austin, August, 1994

Dissertation: Making the Generic Formal Fiber Local

Advisor: Professor Raymond C. Heitmann

B.A.: Mathematics, Bethel College, May 1989

B.S.: Physics, Bethel College, May 1989

PROFESSIONAL EXPERIENCE

Professor, Williams College, 2007-present

Department Chair, Williams College, 2016-2019

Associate Professor, Williams College, 2002-2007

Assistant Professor, Williams College, 1996-2002

Visiting Scholar, Michigan State University, 1999-2000

Visiting Assistant Professor, University of Nebraska, 1994-1996

Assistant Instructor, University of Texas at Austin, 1992-1994

Teaching Assistant, University of Texas at Austin, 1989-1992

Problem Session Leader, Bethel College, 1987-1989

AWARDS AND FELLOWSHIPS

- **Outstanding Mentor**, presented by the Williams College Davis Center, 2017
- **Fellow of the American Mathematical Society**, Inaugural Class, 2013
- **Deborah and Franklin Tepper Haimo Award for Distinguished College or University Teaching of Mathematics**, Mathematical Association of America, 2012
- **Northeastern Section Teaching Award**, Mathematical Association of America, 2010

- **Nelson Bushnell Prize**, Williams College, 2009-2010
- **Young Alumnus Award**, Bethel College, 2007
- **Faculty of the Year Award**, presented by the Williams College student body, 2001
- **Dodd Teaching Fellowship**, University of Texas at Austin, 1989-1991
- **Dodd Teaching Excellence Award**, University of Texas at Austin, 1992
- **Department of Mathematics Undergraduate Teaching Excellence Award**, University of Texas at Austin, 1992
- **Dodd Teaching Excellence Award**, University of Texas at Austin, 1993
- **Academic All-American (NAIA)**, Bethel College, 1988 and 1989 (Tennis)

PUBLICATIONS

* denotes an undergraduate at the time of the research

28. E. Barrett*, E. Graf*, S. Loepp, K. Strong*, and S. Zhang*, Structure of Spectra of Precompletions, submitted.
27. E. Barrett*, E. Graf*, S. Loepp, K. Strong*, and S. Zhang*, Cardinalities of Prime Spectra of Precompletions, submitted.
26. S. Fleming* and S. Loepp, Almost Excellent Unique Factorization Domains, *Involve*, **13**, (2020), no. 1, 165-180.
25. S. Loepp and A. Michaelsen*, Uncountable n-Dimensional Excellent Regular Local Rings with Countable Spectra, *Transactions of the American Mathematical Society*, **373**, (2020), 479-490.
24. S. Loepp and A. Semendinger*, Maximal Chains of Prime Ideals of Different Lengths in Unique Factorization Domains, *Rocky Mountain Journal of Mathematics*, **49**, (2019), no. 3, 849-865.
23. C. Avery*, C. Booms*, T. Kostolansky*, S. Loepp, and A. Semendinger*, Characterization of Completions of Noncatenary Local Domains and Noncatenary Local UFDs, *Journal of Algebra*, **524**, (2019), 1-18.
22. S. Fleming*, L. Ji*, S. Loepp, P. McDonald*, N. Pande*, and D. Schwein*, Completely Controlling the Dimensions of Formal Fiber Rings at Prime Ideals of Small Height, *Journal of Commutative Algebra*, **11**, (2019), no. 3, 363-388.
21. S. Fleming*, L. Ji*, S. Loepp, P. McDonald*, N. Pande*, and D. Schwein*, Controlling the Dimensions of Formal Fibers of a Unique Factorization Domain at the Height One Prime Ideals, *Journal of Commutative Algebra*, **10**, (2018), no. 4, 475-498.
20. S. Loepp and B. Perpetua*, Completions of Reduced Local Rings with Prescribed Minimal Prime Ideals, *Involve*, **9**, (2016), no. 1, 101-118.

19. P. Jiang*, A. Kirkpatrick*, S. Loepp, S. Mack-Crane*, and S. Tripp*, Controlling the Generic Formal Fibers of Local Domains and Their Polynomial Rings, *Journal of Commutative Algebra*, **7**, (2015), no. 2, 241-264.
18. D. Aiello*, S. Loepp, and P. Vu*, Formal Fibers with Countably Many Maximal Elements, *Rocky Mountain Journal of Mathematics*, **45**, (2015), no. 2, 371-388.
17. J. Ahn*, E. Ferme*, F. Jiang*, S. Loepp, and G. Tran, Completions of Hypersurface Domains, *Communications in Algebra*, **41** (2013), no. 12, 4491-4503.
16. N. Arnosti*, R. Karpman*, C. Leverson*, J. Levinson*, and S. Loepp, Semi-Local Formal Fibers of Minimal Prime Ideals of Excellent Reduced Local Rings, *Journal of Commutative Algebra*, (2012), no. 1, 29-56.
15. A. Boocher*, M. Daub*, S. Loepp, Dimensions of Formal Fibers of Height one Prime Ideals, *Communications in Algebra*, (2010), no.1, 233-253.
14. A. Boocher*, M. Daub*, R. Johnson*, H. Lindo*, S. Loepp, and P. Woodard*, Formal Fibers of Unique Factorization Domains, *Canadian Journal of Mathematics*, **62** (2010), 721-736.
13. S. Loepp, C. Rotthaus, and S. Sword, A Class of Local Noetherian Domains, *Journal of Commutative Algebra*, (2009), no. 4, 647-678.
12. A. Dundon*, D. Jensen*, S. Loepp, J. Provine*, and J. Rodu*, Controlling Formal Fibers of Principal Prime Ideals, *Rocky Mountain Journal of Mathematics*, **37** (2007), 1871-1892.
11. **Protecting Information: From Classical Error Correction to Quantum Cryptography**, Susan Loepp, and William K. Wootters, *Cambridge Univ. Press, Cambridge*, (2006).
10. K. Chen*, S. Loepp, and J. Provine*, Chains of Rings with Local Formal Fibers, *Communications in Algebra*, **34** (2006), 3891-3902.
9. P. Charters* and S. Loepp, Semilocal Generic Formal Fibers, *Journal of Algebra*, **278** (2004), 370-382.
8. S. Loepp and C. Rotthaus, Generic Formal Fibers of Polynomial Ring Extensions, *Rocky Mountain Journal of Mathematics*, **34** (2004), 253-262.
7. S. Loepp, Characterization of Completions of Excellent Domains of Characteristic Zero, *Journal of Algebra*, **265** (2003), 221-228.
6. S. Loepp and C. Rotthaus, On the Completeness of Factor Rings, *Proc. Amer. Math. Soc.*, **130** (2002), 2189-2195.
5. S. Loepp and C. Rotthaus, Some Results on Tight Closure and Completion, *Journal of Algebra*, **246** (2001), 859-880.
4. S. Loepp and A. Weinberg*, Generic Formal Fibers of Polynomial Rings, *Journal of Pure and Applied Algebra*, **163** (2001), 93-106.
3. S. Loepp, Formal Fibers at Height One Prime Ideals, *Journal of Pure and Applied Algebra*, **148** (2000), 191-207.

2. S. Loepp, Excellent Rings with Local Generic Formal Fibers, *Journal of Algebra*, **201**, (1998), 573-585.
1. S. Loepp, Constructing Local Generic Formal Fibers, *Journal of Algebra*, **187** (1997), 16-38.

STUDENT PUBLICATIONS UNDER MY SUPERVISION

(All authors in this section were undergraduates at the time of the research)

6. J. Chatlos, B. Simanek, N. Watson, and S. Wu, Semilocal Formal Fibers of Principal Prime Ideals, *Journal of Commutative Algebra*, **4** (2012) no. 3, 369-385.
5. D. Jensen, Completions of UFDs with Semi Local Generic Formal Fibers, *Communications in Algebra*, **34** (2006), 347-360.
4. J. Bryk, S. Mapes, C. Samuels and G. Wang, Constructing Almost Excellent Unique Factorization Domains, *Communications in Algebra*, **33** (2005), 1321-1336.
3. M. Florenz, D. Kunvipusilkul, and J. Yang, Constructing Chains of Excellent Rings with Local Generic Formal Fibers, *Communications in Algebra*, **30** (2002), 3569-3587.
2. D. Lee, L. Leer, S. Pilch, and Y. Yasufuku, Characterizations of Completions of Reduced Local Rings, *Proc. Amer. Math. Soc.*, **129** (2001), 3193-3200.
1. D. Lee, L. Leer, S. Pilch, and Y. Yasufuku, Excellent Rings with Singleton Formal Fibers, *Furman University Electronic Journal of Undergraduate Mathematics*, 1999.

GRANTS

- **REU Site: The Williams College SMALL REU Program, Principal Investigator** (with C. Adams, S. Devadoss, T. Garrity, S. Miller, F. Morgan, A. Pacelli, C. Silva – co-PI, M. Stoiciu), National Science Foundation, \$630,216, June 1, 2009 through May 31, 2015.
- **The Williams SMALL REU Site** (with C. Adams, S. Devadoss, T. Garrity, F. Morgan – PI, A. Pacelli, C. Silva – co-PI, and K. Tapp), National Science Foundation, \$446,312, June 1, 2003 through July 31, 2009.
- **CCLI-EMD: An Interdisciplinary Course for Undergraduates on Protecting Information, Principal Investigator with W. Wootters**, National Science Foundation, \$85,000, June 1, 2000 through May 31, 2002.
- **POWRE: Excellent Local Rings, Principal Investigator**, National Science Foundation, \$48,811, Sept 1, 1999 through Aug. 31, 2000.

- **SMALL Undergraduate Research Project**, (with C. Adams – PI, F. Morgan – co-PI, E. Burger, R. De Veaux, T. Garrity, and C. Silva), National Science Foundation, \$270,000 June 1, 1999 through May 31, 2003.
- AWM-NSF Travel Grant, January, 1995.

PRESENTATIONS GIVEN SINCE 2010

50. “The Prime Spectra of Precompletions,” **AMS Special Session on Commutative Algebra**, Joint Mathematics Meetings, Denver, January, 2020.
49. “The Prime Ideal Structure of Precompletions,” **Faculty Seminar**, Williams College, November, 2019.
48. “Uncountable Excellent Regular Local Rings with Countable Spectra,” **Special Session on Commutative Algebra: in Celebration of the 150th Birthday of Roger and Sylvia Weigand**, AMS Sectional Meeting, University of Wisconsin, September, 2019.
47. “The Relationship Between Prime Ideals of a Local Ring and Prime Ideals of Its Completion,” **Colloquium**, Williams College, June, 2019.
46. “What Hat are You Wearing? An Introduction to The Hat Game,” **Preskenis Lecture**, Framingham State University, April, 2019.
45. “Quasi-Excellent Rings that are not Excellent and Catenary Rings that are not Universally Catenary,” **Faculty seminar**, Williams College, October, 2018.
44. “What Hat Are You Wearing? An Introduction to The Hat Game,” **STEM Symposium**, Bethel College, October, 2018.
43. Women in Science and Mathematics Panel (Panelist), **STEM Symposium**, Bethel College, October, 2018
42. “To Play or Not to Play: A Game with Hats,” **Presentation at BEAM**, Union College, July, 2018.
41. CV and Cover Letter Review Panel (Panelist), **Mini Symposium: Teaching and researching at a liberal arts college**, Williams College, July, 2018.
40. “Completions of Noncatenary Local Domains,” **AMS Special Session on Homological Commutative Algebra**, AMS Sectional Meeting, Northeastern University, April, 2018.
39. “Chain Conditions on Noetherian Integral Domains and Noetherian Unique Factorization Domains,” **Faculty Seminar**, Williams College, September, 2017.
38. “Chain Conditions on Noetherian Rings,” **Colloquium**, Williams College, June, 2017.
37. “Completions of Local Rings,” **Mathematics Colloquium**, Baylor University, March, 2017.

36. "The Key to Sending Secret Messages," **Guterman Lecture**, Tufts University, March, 2017.
35. "Rings with Strange Properties," **Faculty Seminar**, Williams College, February, 2017.
34. "Understanding the Relationship Between Local Rings and Their Completions: Contributions by Undergraduates," **AMS Special Session on Commutative Algebra: Research for Undergraduate and Early Graduate Students**, Joint Mathematics Meetings, Atlanta, January, 2017.
33. "Hats off to the class of 2016," **Phi Beta Kappa Induction talk**, Williams College, June 2016.
32. "The Hat Game," **Senior Seminar**, Wheaton College, March 2016.
31. "To Detect Errors is Human, to Correct Them Divine: Using Math to Correct Errors," **Norman Johnson Lecture Series**, Wheaton College, March 2016.
30. "Polynomials, Power Series, and Cool Theorems Proved by Undergraduates," **Southwestern Undergraduate Mathematics Research Conference**, Invited speaker, Arizona State University, Tempe, February, 2016.
29. "What's Beyond the Curriculum?" **MAA Committee on the Undergraduate Program in Mathematics Panel Discussion**, invited panelist including a short presentation, Joint Mathematics Meetings, Seattle, January, 2016.
28. "Dimensions of Formal Fiber Rings," **AMS-AWM Special Session on Commutative Algebra**, Joint Mathematics Meetings, Seattle, January, 2016.
27. "Polynomials, Power Series, and Cool Theorems Proved by Undergraduates," **Common Hour Talk**, Davidson College, October, 2015.
26. "Protecting Your Personal Information: An Introduction to Encryption," **Richard R. Bernard Lecture**, Davidson College, September, 2015.
25. "Local Rings, Completions, and Prime Ideals," **Colloquium**, Williams College, June, 2015.
24. "Formal Fibers at Height Zero Prime Ideals," **Faculty Seminar**, Williams College, September, 2014.
23. "Polynomials, Power Series, and Confessions of a Commutative Algebraist," **Pi Mu Epsilon Induction Talk**, College of the Holy Cross, April, 2014.
22. "Polynomials, Power Series and Cool Theorems Proved by Undergraduates," **Colloquium**, Middlebury College, April, 2014.
21. "Polynomials, Power Series, and Confessions of a Commutative Algebraist," **WIMIN13, Keynote Address**, Smith College, September, 2013.
20. "Generic Formal Fibers in Characteristic p ," **Faculty Seminar**, Williams College, September, 2013.
19. "Using Coding Theory for Quantum Cryptography," **AMS-MAA Special Session on Coding Theory**, Mathfest, Hartford, CT, August, 2013.

18. "Algebra, Analysis, and the way you eat corn: the complete story," **MAA Invited Address**, Mathfest, Hartford, CT, August, 2013.
17. "Completions and Polynomial Rings," **Colloquium**, Williams College, June, 2013.
16. "Using Algebra to Protect your Personal Information," **Sigma Xi talk**, Williams College, April, 2013.
15. "Protecting your Personal Information: An Introduction to Encryption," **Abramson Colloquium**, Bridgewater State University, April, 2013
14. "Completions of Hypersurface Domains," **Faculty Seminar**, Williams College, February, 2013.
13. "Characterizing Generic Formal Fibers," **Faculty Seminar**, Williams College, September, 2012.
12. "Completions and Complete Intersections," **Faculty Seminar**, Williams College, February, 2012.
11. "Teaching, Mentoring, and Advising Undergraduate Research: Lessons Learned on the Streets," **Haimo Award Talk**, Joint Mathematics Meeting, Boston, January, 2012.
10. "Protecting your Personal Information: An Introduction to Encryption," **Frank S. Brenneman Lecture Series**, Tabor College, October, 2011.
9. "The Key to Sending Secret Messages," **Frank S. Brenneman Lecture Series**, Tabor College, October, 2011.
8. "Where Algebra and Analysis Meet: What is the Distance Between Two Polynomials?" **Mathematics Colloquium**, Fairfield University, July 2011.
7. "Completions of Local Rings," **Mathematics Colloquium**, Williams College, July, 2011.
6. "Protecting your Personal Information: An Introduction to Encryption," **Science Scholars Symposium, Keynote Address**, St. John Fisher College, March, 2011.
5. "The Key to Sending Secret Messages," **Mathematics Colloquium**, St. John Fisher College, March, 2011.
4. "Excellent Integral Domains of Prime Characteristic," **Faculty Seminar**, Williams College, February, 2011.
3. "These are a Few of my Favorite Rings: Ideas for Inspiring Students to Like Abstract Algebra," Distinguished Teacher Presentation, **MAA Northeastern Section fall meeting**, November, 2010.
2. "Semilocal Formal Fibers of Prime Ideals with Large Heights," **Faculty Seminar**, Williams College, September, 2010
1. "Minimal Prime Ideals and Complete Local Rings," **Faculty Seminar**, Williams College, February, 2010

UNDERGRADUATE RESEARCH PROGRAMS

- **Research Experience for Undergraduates**, Faculty Advisor for the Commutative Algebra group, Williams College SMALL program, Summer 1998, 1999, 2001, 2003, 2005, 2007, 2015, 2017 and 2019.
- **Research Experience for Undergraduates**, Director of the Williams College SMALL program and Faculty Advisor for the Commutative Algebra group, Summer, 2009, 2011, and 2013.

SUMMER REU STUDENTS

- 2019** Erica Barrett (Williams College)
Emil Graf (Williams College)
Kimball Strong (Berkeley)
Sharon Zhang (Princeton)
- 2018** Anya Michaelsen (Williams College)
- 2017** Chloe Avery (UCSB)
Caitlyn Booms (Notre Dame)
Timothy Kostolansky (Williams College)
Alex Semendinger (Williams College)
- 2015** Sarah Fleming (Williams College)
Lena Ji (Columbia University)
Peter McDonald (Williams College)
Nina Pande (Williams College)
David Schwein (Brown University)
- 2013** Peihong Jiang (University of Rochester)
Anna Kirkpatrick (University of South Carolina)
Sander Mack-Crane (Case Western Reserve University)
Samuel Tripp (Williams College)
- 2011** Ji Won Ahn (Williams College)
Elizabeth Ferme (Wellesley College)
Feiqi Jiang (University of Michigan)
Giang Thi Huong Tran (Bard College)
- 2009** Nick Arnosti (Williams College)
Rachel Karpman (Scripps College)
Caitlin Levenson (Wellesley College)
Jake Levinson (Williams College)

- 2007** Adam Booher (Notre Dame)
Michael Daub (Williams College)
Ryan Johnson (University of Chicago)
Haydee Lindo (Williams College)
Paul Woodard (Williams College)
- 2005** John Chatlos, (Williams College)
Brian Simanek, (Williams College)
Nathaniel Watson, (Washington University)
Sherry Wu, (Cornell University)
- 2003** Ariana Dundon, (Pomona College)
David Jensen, (Williams College)
John Provine, (Harvard University)
Jordan Rodu, (Williams College)
- 2001** John Bryk, (Williams College)
Sonja Mapes, (Notre Dame)
Charles Samuels, (Williams College)
Grace Wang, (Berkeley)
- 1999** Dan Lee, (Harvard University)
Leanne Leer, (Bucknell University)
Shara Pilch, (Williams College)
Yu Yasufuku, (Harvard University)
- 1998** Mark Florenz, (Williams College)
Davina Kunvipusilkul, (Williams College)
Junghee Yang, (Williams College)

SENIOR HONORS THESIS STUDENTS

- Teresa Yu, Williams College, 2019-2020
- Andrew Aramini, Williams College, 2018-2019
- Anya Michaelsen, Williams College, 2018-2019
- Alex Semendinger, Williams College, 2017-2018
- Weitao Zhu, Williams College, 2017-2018
- Sarah Fleming, Williams College, 2017 (calendar year)
- Nina Pande (coadvised with Haydee Lindo), Williams College, 2016-2017
- Byron Perpetua, Williams College, 2013-2014
- Craig Corsi, Williams College, 2013-2014
- Philip Tosteson, Williams College, 2012-2013

- Sean Pegado, Williams College, 2010-2011
- Philip Vu, Williams College, 2010-2011
- Bolor Turmunkh, Williams College, 2009-2010
- Domenico Aiello, Williams College, 2008-2009
- Myron Minn-Thu-Aye, Williams College, 2006-2007
- David Jensen, Williams College, 2003-2004
- Brian Katz, Williams College, Fall, 2002
- Philippa Charters, Williams College, 2002-2003
- Aaron Weinberg, Williams College, 1998-1999
- Deborah Greilshemer, Williams College, Spring 1997

SENIOR COLLOQUIUM ADVISEES

- Andrew Aramini, Williams College, Spring 2019
- Anya Michaelsen, Williams College, Spring 2019
- Maryanne Masibo, Williams College, Spring 2019
- Alex Gueganic, Williams College, Spring 2019
- Alex Semendinger, Williams College, Spring 2018
- Weitao Zhu, Williams College, Spring 2018
- Michael Zuo, Williams College, Spring 2018
- Caroline Hogan, Williams College, Winter 2018
- Ryan Kwon, Williams College, Fall 2017
- Connor Mulhall, Williams College, Spring 2017
- Ben Lin, Williams College, Winter 2017
- Stephanie Horan, Williams College, Winter 2017
- Anne Sher, Williams College, Winter 2017
- Rohan Paranjpe, Williams College, Fall, 2016
- Brandon Ling, Williams College, Winter, 2015
- Paul Adeleke, Williams College, Winter, 2015
- Benno Stein, Williams College, Fall, 2014
- Llewellyn Smith, Williams College, Fall, 2014
- Alexandra Jensen, Williams College, Fall, 2014
- Parker Finch, Williams College, Fall, 2013
- Jalynne Figueroa, Williams College, Spring, 2013
- Alex Wheelock, Williams College, Spring, 2013

- Scott Sanderson, Williams College, Spring, 2013
- Kyle Bolo, Williams College, Spring, 2013
- Joy Jing, Williams College, Fall, 2012
- Christine Bowman, Williams College, Spring, 2011
- Rebecca Tyson, Williams College, Spring, 2011
- Patricia Klein, William College, Winter Study, 2011
- William Palmer, Williams College, Fall, 2010
- Michael Marchinetti, Williams College, Spring, 2010
- Joanna Hoffman, Williams College, Fall, 2009
- Kimberly Elicker, Williams College, Spring, 2009
- Katie Baldiga, Williams College, Fall, 2006
- Diana Davis, Williams College, Fall, 2006
- Ross Kravitz, Williams College, Fall, 2006
- Eric Gottenborg, Williams College, Spring, 2006
- Kathleen Harkey, Williams College, Fall, 2005
- Amy Dieckmann, Williams College, Spring, 2005
- Ashok Pillai, Williams College, Spring, 2005
- Melanie Kingsley, Williams College, Spring, 2005
- Matthew Resseger, Williams College, Fall, 2004
- Sarah Krygowski, Williams College, Fall, 2004
- Matthew Spencer, Williams College, Fall, 2004
- Teodora Ivanova, Williams College, Spring, 2003
- Robert Gonzalez, Williams College, Fall 2002
- William Allen, Williams College, Spring 2002
- Jonathan Salter, Williams College, Fall 2001
- Abhaya Menon, Williams College, Spring 2001
- Chris Koegel, Williams College, Spring 2001
- Sara Richland, Williams College, Fall 2000
- Rungporn Roengpitya, Williams College, Fall 2000
- Jana Comstock, Williams College, Spring, 1999
- Edward Richards, Williams College, Spring, 1999
- Craig Westerland, Williams College, Fall, 1998
- Zachary Grossman, Williams College, Fall, 1998
- Jeffrey Kaye, Williams College, Fall, 1998
- Catherine Riihimaki, Williams College, Spring, 1998
- Andrew Raich, Williams College, Fall, 1997

- Jennifer Tice, Williams College, Fall, 1996
- Laura Christensen, Williams College, Fall, 1996

DEPARTMENTAL DUTIES

- Department Chair, 2016-2019
- SMALL Director, 2009, 2011, 2013
- Author and Principal Investigator of the SMALL REU grant, 2008
- Hiring Committee Chair, 2005-2006, 2006-2007, 2013-2014
- Math/Stat Dept rep. to the Divisional Research Funding Committee, 2002-2003, 2004-2005
- Petitions, fall 2002
- Math/Stat Bulletin, 2002-2003, 2004-2005, 2005-2006, 2006-2007
- Advising Sophomores, 2001-2002, 2002-2003, 2010-2011
- Advising Prospective students, 2014-2015
- Graduate School Advising, 2001-2002
- Calculus Placement, 1997-1999, 2001-2002, 2002-2003, 2004-2005, 2006-2007, 2008-2009, fall 2012
- Hiring Committee, 2001-2002, 2002-2003, 2004-2005, 2008-2009, 2012-2013, 2014-2015, 2017-2018, 2018-2019
- Putnam Exam, 2001
- Green Chicken Contest, 2001
- Colloquium Chair, 2000-2001, and Spring 2010
- Co-Authoring the SMALL REU grant, 1998
- Reading files of and interviewing job candidates, Baltimore Math meeting, 1998
- Reading files of and interviewing job candidates, San Antonio Math meeting, 1999
- Graduate School Advising, 1996-1999
- Displays, 1996-1998, 2000-2001
- Hudson River Undergraduate Math Conference Representative, 1997-1999
- Faculty Seminar, 1997-1999

COLLEGE-WIDE SERVICE

- Co-director of the Clare Boothe Luce grant, Jan. 2018-July 2019
- Clare Boothe Luce Committee, 2013-2015
- Honor and Discipline Committee, 2012-2013
- Mentor in the Williams College Mentor program, 2008-2009
- Committee on Diversity and Community, 2008-2010

- Benefits Committee, 2006-2007
- Faculty Lecture Series Committee, 2004-2005
- Oxford Selection Committee, 2003
- Faculty Compensation Committee, 2001-2003, 2005-2007
- Child Care Committee, 2001
- Library Committee, 1998-1999
- Sawyer Space Planning Committee, 1999
- Olmsted Committee, 1999
- Science Executive Committee, 1997-1998
- Calendar and Schedule Committee, 1997-1998, 2010-2011

EXTERNAL SERVICE

- AMS Council, 2019-2022
- AMS Committee on Education, 2019-2022
- AMS Committee on Double-Blind Refereeing, 2019-2020
- Chair of AMS Committee on Award for Impact on the Teaching and Learning of Mathematics, 2020
- Advisory board for the AMS director of education, 2020
- AMS Committee on Women in Mathematics, 2017-2020
- MAA Committee on Invited Paper Sessions, 2015-2017, 2017-2020
- MAA Invited Addresses Committee for MathFest 2019
- AWM Essay Contest Committee, 2014-2017
- AMS Committee on Committees, 2011-2013
- AMS Committee on the Profession, 2008-2011
- Chair of the AMS Committee on the Profession, 2010-2011
- AMS Committee on Programs that Make a Difference, 2008-2011
- Chair of AMS Committee on Programs that Make a Difference, 2009, 2010
- Chair (part of the year) of the AMS Secretary Search committee, 2010-2011
- AMS Working Group on the Nominee Program, 2010
- AMS Task Force on Employment Prospects, 2009
- Associate Editor for *The American Mathematical Monthly*, 2012-2022
- MAA Subcommittee on Service Courses, 2002-2005
- MAA Committee for the NES Teaching Award, 2011
- Referee for
 - *Journal of Algebra*
 - *Communications in Algebra*

- *Journal of Pure and Applied Algebra*
 - *The American Mathematical Monthly*
 - *Journal of Commutative Algebra*
 - *Journal of Algebra and its Applications*
- Reviewer for Mathematical Reviews
- Panelist for a National Science Foundation panel:
 - September, 2009
 - November, 2010
 - November, 2014