

# ALLISON HENRICH

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## EDUCATION

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**Dartmouth College** Summer 2005 – Spring 2008  
Ph.D., Mathematics, Advisor: Vladimir Chernov

**Dartmouth College** Fall 2003 – Spring 2005  
M.A., Mathematics

**University of Washington, Seattle** Fall 1999 – Spring 2003  
B.S., Mathematics, *Magna Cum Laude*  
B.A., Philosophy, *Magna Cum Laude*

## APPOINTMENTS

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**Editor of *MAA FOCUS*** Summer 2022 – present  
Mathematical Association of America

**Professor** Fall 2019 – present  
Seattle University

**Associate Professor** Fall 2014 – Summer 2019  
Seattle University

**Mathematics Department Chair** Summer 2014 – Summer 2017  
Seattle University

**Assistant Professor** Fall 2009 – Spring 2014  
Seattle University

**Research Experiences for Undergraduates Mentor** Summers 2010, 2011, 2012  
University of Washington, Math REU

**Research Experiences for Undergraduates Mentor** Summer 2009  
Williams College, SMALL REU

**Assistant Professor** Fall 2008 – Spring 2009  
Oberlin College

**Instructor** Winter 2001 – Spring 2003  
Bellevue Community College

## TEACHING EXPERIENCE

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**Seattle University**

*UCOR 1200 / MATH 107 — Quantitative Literacy and Social Justice*  
Fall 2010, Winter 2011, Spring 2013, Fall 2013, Winter 2014, Fall 2014, Spring 2015,  
Fall 2016, Winter 2019, Spring 2019 (2 sections), Fall 2019, Spring 2021 (2 sections),  
Fall 2021, Spring 2022, Fall 2022

*MATH 1000 / MATH 110 — Functions and Algebraic Methods*  
Fall 2012

**Seattle University (cont.)**

*MATH 1022 / MATH 1322 / MATH 121 — Precalculus: Trigonometry*  
Fall 2015 (2 sections)

*MATH 1331 / MATH 132 / MATH 191 — Calculus with Algebra I (a)*  
Fall 2012, Fall 2013

*MATH 1332 / MATH 133 / MATH 191 — Calculus with Algebra I (b)*  
Winter 2013, Winter 2014

*MATH 1334 / MATH 134 — Calculus I*  
Winter 2010 (2 sections), Fall 2010, Spring 2011, Winter 2012 (3 sections),  
Winter 2020 (2 sections)

*MATH 1335 / MATH 135 — Calculus II*  
Fall 2009 (2 sections), Spring 2014, Spring 2020, Winter 2021 (2 sections)

*MATH 3000 / MATH 310 — Introduction to Advanced Mathematics*  
Spring 2010, Spring 2012, Spring 2013, Fall 2019

*MATH 3910 / MATH 391 — Introduction to Knot Theory*  
Spring 2016

*MATH 3910 / MATH 391 — Knot Theory and Topology*  
Winter 2011

*MATH 4460 / MATH 3910 / MATH 391 — Introduction to Topology*  
Winter 2013

**Oberlin College**

*MATH 134 — Calculus II*  
Fall 2008, Spring 2009 (2 sections)

*MATH 353 — Topology*  
Fall 2008

**Dartmouth College**

*MATH 2 — Calculus II*  
Winter 2006

*MATH 3 — Calculus I and II*  
Fall 2006

*Graduate Mini-course on Algebraic Topology*  
Summer 2007

**Bellevue Community College**

*PHIL 120 — Introduction to Logic for Math, CS, and Engineering Majors*  
Winter 2001, Spring 2001, Fall 2001, Winter 2002, Spring 2002, Fall 2002, Winter 2003,  
Spring 2003

## PUBLICATIONS

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*Note: The symbol (\*) denotes undergraduate coauthors, (†) denotes graduate student coauthors, and (‡) denotes high school student coauthors.*

### Mathematics Research (Peer reviewed)

20. Allison Henrich and Robin Truax<sup>‡</sup>, “Petal Projections, Knot Colorings and Determinants.” *Involve*, Vol. 15, No. 2 (2022).
19. Sandy Ganzell and Allison Henrich, “Virtual Mosaic Knot Theory.” *Journal of Knot Theory and Its Ramifications*, Vol. 29, No. 14 (2020).
18. Hunter Adams\*, Allison Henrich, and Solden Stoll<sup>‡</sup>, “The KnotLink Game.” *PUMP Journal of Undergraduate Research*, Vol. 3 (2020).
17. Allison Henrich, Inga Johnson, and Jonah Ostroff, “The Region Smoothing Swap Game.” *Osaka Journal of Mathematics*, Vol. 58, No. 1 (2020).
16. Colin Adams, Allison Henrich, Kate Kearney, and Nicholas Scoville. “Knots Related by Knotoids.” *American Mathematical Monthly*, Vol. 126, No. 6 (2019).
15. Jason Cantarella, Allison Henrich, Elsa Magness\*, Oliver O’Keefe\*, Kayla Perez\*, Eric Rawdon, and Briana Zimmer\*. “Knot fertility and lineage.” *Journal of Knot Theory and Its Ramifications*, Vol. 26, No. 13 (2017).
14. Sarah Brown\*, Franky Cabrera\*, Riley Evans\*, Gianni Gibbs\*, Allison Henrich, and James Kreinbihl<sup>†</sup>. “The Region Unknotting Game.” *Mathematics Magazine*, Vol. 90, No. 5 (2017).
13. Allison Henrich and Louis Kauffman. “Tangle Insertion Invariants for Pseudoknots, Singular Knots, and Rigid Vertex Spatial Graphs.” in *E. Flapan, A. Henrich, A. Kaestner, and S. Nelson (Eds.), Knot Theoretic Structures & Spatial Graphs*, American Mathematical Society, Providence, RI, (2017).
12. Allison Henrich, Slavik Jablan, and Inga Johnson. “The Signed Weighted Resolution Set is Not a Complete Pseudoknot Invariant.” *Journal of Knot Theory and Its Ramifications*, Vol. 25, No. 9 (2016).
11. François Dorais, Allison Henrich, Slavik Jablan, and Inga Johnson. “Isotopy and Homotopy Invariants of Classical and Virtual Pseudoknots.” *Osaka Journal of Mathematics*, Vol. 52, No. 2 (2015).
10. Tomas Boothby<sup>†</sup>, Alexander Leaf\*, and Allison Henrich. “Minimal Diagrams of Free Knots.” *Journal of Knot Theory and Its Ramifications*, Vol. 23, No. 6 (2014).
9. Allison Henrich and Slavik Jablan. “On the Coloring of Pseudoknots.” *Journal of Knot Theory and Its Ramifications*, Vol. 23, No. 12 (2014).
8. Allison Henrich and Louis Kauffman. “Unknotting Unknots.” *American Mathematical Monthly*, Vol. 121, No. 5 (2014) 379–390.
7. Allison Henrich, Rebecca Hoberg<sup>†</sup>, Slavik Jablan, Lee Johnson\*, Elizabeth Minten\*, and Ljiljana Radović. “The Theory of Pseudoknots.” *Journal of Knot Theory and Its Ramifications*, Vol. 22, No. 7 (2013) 1–21.

6. Alissa Crans, Allison Henrich, and Sam Nelson. “Polynomial Knot and Link Invariants from the Virtual Biquandle”. *Journal of Knot Theory and Its Ramifications*, Vol. 22, No. 4 (2013) 1–15.

5. Allison Henrich and Inga Johnson. “The Link Smoothing Game.” *AKCE International Journal of Graphs and Combinatorics*, Vol. 9, No. 2 (2012) 145–159.

4. Allison Henrich, Noel MacNaughton\*, Sneha Narayan\*, Oliver Pechenik\*, Robert Silversmith\* and Jennifer Townsend\*. “A Midsummer Knot’s Dream.” *College Math Journal*, Vol. 42, No. 2 (2011), 126–134.

3. Allison Henrich, Noel MacNaughton\*, Sneha Narayan\*, Oliver Pechenik\* and Jennifer Townsend\*. “Classical and Virtual Pseudodiagram Theory and New Bounds on Unknotting Numbers and Genus.” *Journal of Knot Theory and Its Ramifications.*, Vol. 20, No. 4 (2011), 625–650.

2. Allison Henrich and Sam Nelson. “Semiquandles and Flat Virtual Knots.” *Pacific Journal of Mathematics*, Vol. 248, No.1 (2010), 155–170.

1. Allison Henrich. “A Sequence of Degree One Vassiliev Invariants for Virtual Knots.” *Journal of Knot Theory and Its Ramifications*, Vol. 19, No. 4 (2010), 461–487.

### **Educational Research & Writing** (Peer reviewed)

4. Michael Dorff, Allison Henrich, and Lara Pudwell. “Successfully Mentoring Undergraduates in Research: A How To Guide for Mathematicians.” *PRIMUS: Problems, Resources, and Issues in Mathematics Undergraduate Studies* Vol. 27, No. 3, DOI:10.1080/10511970.2016.1183248, (2017) 320–336.

3. Allison Henrich, J. McLean Sloughter, Jeffrey Anderson, and Eric Bahuaud. “Addressing negative math attitudes with service-learning.” *PRIMUS: Problems, Resources, and Issues in Mathematics Undergraduate Studies*, Vol. 26, No. 8, DOI:10.1080/10511970.2016.1174967, (2016) 788–802.

2. John Carter, Dylan Helliwell, Allison Henrich, Maria Principe\*, and J. McLean Sloughter. “Oral Assessments: Improving Student Success in Calculus at Seattle University.” *PRIMUS: Problems, Resources, and Issues in Mathematics Undergraduate Studies*, Vol. 26, No. 2, DOI:10.1080/10511970.2015.1067264, (2015) 105–124.

1. Allison Henrich and Kristi Lee. “Reducing Math Anxiety: Findings from Incorporating Service Learning into a Quantitative Reasoning Course at Seattle University.” *Numeracy*, Vol. 4, No. 2, (2011).

### **Books**

4. Louis Kauffman and Allison Henrich. *The Mathematics of Rope Magic*, to be published by Princeton University Press, 2024.

3. Carrie Diaz Eaton, Allison Henrich, Steven Klee, and Jennifer Townsend. *Make It Count: A Handbook for Math Majors*, submitted for publication, 2022.

2. Michael Dorff, Allison Henrich, and Lara Pudwell. *A Mathematician’s Practical Guide to Mentoring Undergraduate Research*. Vol. 63. American Mathematical Soc., 2019.

1. Inga Johnson and Allison Henrich. *An Interactive Introduction to Knot Theory*, Dover Publications, Inc., Mineola, NY, 2017.

### Edited Books

3. Eds. Colin Adams, Erica Flapan, Allison Henrich, Louis Kauffman, Lew Ludwig, and Sam Nelson. *A Concise Encyclopedia of Knot Theory*, Taylor & Francis, 2021.
2. Eds. Allison Henrich., Emille Lawrence, Matthew Pons, and David Taylor. *Living Proof: Stories of Resilience Along the Mathematical Journey*, American Mathematical Society, 2019.
1. Eds. Erica Flapan, Allison Henrich, Aaron Kaestner, and Sam Nelson. *Knots, Links, Spatial Graphs, and Algebraic Invariants*, American Mathematical Society, Providence, RI, 2017.

### Articles, Book Reviews & More

8. Allison Henrich. “Be Inspirable,” to appear in *Notices of the AMS*, December 2022.
7. Allison Henrich. “Book Review: *How to Get Your PhD: A Handbook for the Journey* by Gavin Brown,” *College Math Journal*, Vol. 53, No. 3, 2022.
6. Allison Henrich. “A Conversation with Third Grader Henrietta Xu,” *MAA FOCUS*, Dec 2021/Jan 2022.
5. Allison Henrich, Alex Ionescu\*, Brooke Mathews\*, Isaac Ortega\*, and Kelemua Tesfaye\*. “Knotris: A Game Inspired by Knot Theory,” *Math Horizons*, Vol. 28, No. 2, 2021.
4. Allison Henrich. “The Power of Bravery,” *MAA FOCUS*, June/July 2018.
3. Allison Henrich. “Visions of Mathematics,” *Introduction to artist’s book Dreams of Pythagorus by Michael Schultheis*, 2014.
2. Allison Henrich and Jeffrey Anderson. “Service-Learning in a Quantitative Reasoning Course,” *Peer Review: A Journal of the Association of American Colleges & Universities*, 2014.
1. Moshe Cohen and Allison Henrich. “A Knot Game with not KNERds,” *Math Horizons*, November 2012, 25–29.

### Blog Posts

15. Allison Henrich. “How (Not) to Communicate Mathematics,” *MAA Math Values Blog*, April 28, 2022.
14. Jen Bowen, Sarah Bryant, Susan Crook, Allison Henrich, Anisah Nu’Man, and Matthew Pons. “Welcome to the Living Proof Math Values Blog,” *MAA Math Values Living Proof Blog*, February 17, 2022.
13. Allison Henrich. “Creating Space for Creativity” *MAA Math Values Blog*, January 11, 2022.
12. Allison Henrich. “An Interview with Susan D’Agostino,” *MAA Math Values Blog*, December 9, 2021.

11. Allison Henrich. “An Interview with Nancy Scherich,” *MAA Math Values Blog*, November 11, 2021.
10. Jen Bowen, Chawne Kimber and Allison Henrich. “Encounters with gatekeepers,” *AMS Living Proof Blog*, August 17, 2021.
9. Allison Henrich and Shanise Walker. “Addressing Stereotype Threat,” *MAA Math Values Blog*, September 9, 2021.
8. Allison Henrich and Shanise Walker. “Stereotyping in Mathematics: An interview with Carol Bennett,” *MAA Math Values Blog*, September 7, 2021.
7. Allison Henrich, Haydee Lindo and Natalie Naehrig. “What will you keep?” *MAA Math Values Blog*, August 19, 2021.
6. Allison Henrich and Shanise Walker. “Reflections on a DEI Workshop for Undergraduate Research Mentors,” *MAA Math Values Blog*, July 29, 2021.
5. Allison Henrich. “Lessons from My Pop,” *MAA Math Values Blog*, June 17, 2021.
4. Allison Henrich. “Let’s be kind to our students,” *MAA Math Values Blog*, March 30, 2021.
3. Allison Henrich and Matthew Pons. “How did it go? Reflections on teaching college math during a pandemic,” *AMS Living Proof Blog*, January 4, 2021.
2. Allison Henrich and Matthew Pons. “Teaching Using Living Proof,” *AMS Living Proof Blog*, June 5, 2020.
1. Allison Henrich. “I am so glad you made that mistake!” *AMS Blog On Teaching and Learning Mathematics*, May 1, 2017.

### Artist Interviews

4. Allison Henrich. “John Edmark: Art in Motion,” *Mathematics Magazine*, Vol. 94, No. 1, (2021).
3. Allison Henrich. “Henry Segerman: Visualizing Topology,” *Mathematics Magazine*, Vol. 93, No. 4, (2020) 301-305.
2. Allison Henrich. “Robert Bosch: From Dominos to Traveling Salespeople,” *Mathematics Magazine*, Vol. 92, No. 4, (2019) 305-307.
1. Allison Henrich. “Veronika Irvine: The The Art and Mathematics of Making Bobbin Lace,” *Mathematics Magazine*, Vol. 91, No. 4, (2018) 307-309.

### Educational Products

1. Developed online training course, *Course 9: Writing About Research*, as a part of the training program, *Research as a Transferrable Skill*, for undergraduate researchers in all disciplines. Published by Epigeum, a division of Oxford University Press, 2018.

## EXTERNAL GRANTS FUNDED

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- MAA OPEN Math* NSF AA Award DUE-2111260 and CU-B Award DUE-2111273  
Awarded \$12,000 to develop and run a workshop entitled “Mentoring Undergraduate Research in Mathematics: A DEI Approach” with Pamela Harris, Michael Dorff and Michael Young.
- Center for Undergraduate Research in Mathematics* NSF DMS Award #1722563  
Awarded \$15,700 to support a team of student researchers during the 2019-20 academic year.
- UnKnot Conference IV* NSF DMS Award # 1917863  
Co-PI on a \$35,000 grant from the National Science Foundation Division of Mathematical Sciences to run a conference for undergraduates interested in or doing research in knot theory.
- Seattle University Mathematics Early Research Program* NSF DMS Award #1460537  
Awarded \$279,997 by the National Science Foundation Division of Mathematical Sciences with co-PI Steve Klee for 2015-2017 to run a summer research program for undergraduates for three summers.
- Simons Collaboration Grant*  
Awarded \$35,000 by the Simons Foundation, to be used between Fall 2016 and Summer 2021 to fund travel and other expenditures related to collaboration.
- Association of Women in Mathematics Travel Grant*  
Awarded \$975 for travel to AMS sectional meeting in Lawrence, KS in 2012.

## HONORS AND AWARDS

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- Euler Book Prize (2022)  
Awarded by the Mathematical Association of America to recognize authors of books with a positive impact on the public’s view of mathematics. Received for *Living Proof: Stories of Resilience Along the Mathematical Journey*, jointly edited with E. Lawrence, M. Pons, and D. Taylor.
- Paul R. Halmos – Lester R. Ford Award (2020)  
Awarded by the Mathematical Association of America to recognize authors of articles of expository excellence published in *The American Mathematical Monthly*. Received for joint paper with C. Adams, K. Kearney, and N. Scoville, “Knots Related by Knotoids.”
- Henry L. Alder Award for Distinguished Teaching (2015)  
Awarded by the Mathematical Association of America annually to no more than three beginning college or university faculty whose teaching has been extraordinarily successful and whose effectiveness in teaching undergraduate mathematics is shown to have influence beyond their own classrooms.
- Paul R. Halmos – Lester R. Ford Award (2015)  
Awarded by the Mathematical Association of America to recognize authors of articles of expository excellence published in *The American Mathematical Monthly*. Received for joint paper with L. Kauffman, “Unknotting Unknots.”
- Seattle University Summer Faculty Fellowship (2013)  
Awarded \$7500 for conducting knot theory research in the summer.
- Project NExT Fellow  
Selected for the 2008 cohort of Red08 Dots.
- Filene Graduate Teaching Award (2008)  
Awarded to two Dartmouth College graduate students each year for excellence in teaching.
- Arts and Sciences Graduate Community Award (2008)  
Awarded to two Dartmouth College graduate students each year for outstanding community service on behalf of the Arts and Sciences Dartmouth graduate community.
- Phi Beta Kappa (2003)

## RECENT PRESENTATIONS

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### **Knotty Mathematics**

*September 17, 2022*

MAD Science – Bandit Theater, Featured Expert at Improv Comedy Event

### **There's a Fine Line Between Critique and Some Mean Sh\*t**

*August 5, 2022*

MAA MathFest – President's Ignite Celebration, Invited Talk (with M. Pons and D. Taylor)

### **How to Turn Your Knots from Blah into Fabulous**

*August 5, 2022*

MAA MathFest, Student Activity Speaker (Plenary Talk)

*July 28, 2022*

UW Bothell Math REU, Colloquium Talk

### **How to Not Tie a Knot**

*October 24, 2021*

NJ MAA Sectional Meeting, Invited Workshop/Talk

*July 7, 2021*

Fundación Panameña para la Promoción de las Matemáticas (FUNDAPROMAT),  
Math Webinar in English

### **Knotty Games**

*December 7, 2021*

Bay Area Mathematical Adventures, Invited Talk

*July 30, 2021*

Summer Institute for Mathematics at the University of Washington, Special Lecture

*July 21, 2021*

Central Convergence REU, Central Washington University, Seminar Talk

*May 11, 2021*

Université du Luxembourg, *Multiplicities*, Invited Talk

*April 3, 2021*

Northern California Undergraduate Mathematics Conference, Fresno State, Plenary Talk

*February 24, 2021*

St Mary's College of Maryland, Natural Science and Mathematics Colloquium Talk

*November 10, 2016*

Brigham Young University, *Focus on Math*, Invited Talk

*April 1, 2016*

University of Central Arkansas, OK-AR MAA Section Meeting, Court Lecture

*February 11, 2016*

Seattle University, Colloquium Talk



**Six Fundamental Steps to Mentoring Undergraduate Research***January 17, 2020*

Joint Mathematics Meetings, Denver, CO, Invited Talk

**It's All Fun and Games Until Someone Becomes a Mathematician***November 7, 2019*

College of William and Mary, Bourdon - Evans Lecture

*September 21, 2019*

WIMIN Conference, Alice Dickinson Lecture in Mathematics

*July 20, 2019*

UnKnot IV Conference, University of Washington - Bothell, Plenary Talk

*March 23, 2018*

MAA Tri-section Meeting, Valparaiso University, Plenary Talk

*March 19, 2018*

University of Washington Math Day, Invited Talk

*February 14, 2018*

Pacific Lutheran University, Mathematics Colloquium

*November 11, 2017*

University of Dayton Undergraduate Math Day, Plenary Talk

*November 7, 2017*

University of Washington Tacoma, Invited Talk

*October 14, 2017*Northwest Undergraduate Mathematics Symposium, Western Washington University,  
Plenary Talk*September 21, 2017*

Harvey Mudd College, Michael E. Moody Lecture

**A Conversation About Living Proof***October 12, 2019*Pacific Math Alliance Conference, East Bay, CA, Contributed Talk  
Joint with Emille Lawrence**(An Interactive Introduction to) The Curious Universe of Virtual Knots***November 7, 2019*

College of William and Mary, Invited Talk

*January 19, 2019*

Joint Mathematics Meetings, Baltimore, MD, Invited Talk

**Knots Related by Knotoids***April 13, 2019*

MAA Sectional Meeting, Portland, OR, Invited Talk

*March 22, 2019*

AMS Sectional Meeting, Honolulu, HI, Invited Talk

**A Knotty Exploration of Magic and Math***February 23, 2019*Highline Community College, 2019 Western WA Comm College Students  
Math Conference, Invited Talk*February 7, 2019*

Seattle University, Colloquium Talk &amp; Workshop

*March 28, 2018*

Central Washington University, Mount Stuart Mathematics Seminar Talk &amp; Workshop

*February 28, 2018*Elon University, *Pi Mu Epsilon* Invited Talk & Workshop*February 27, 2018*

Davidson College, Invited Talk &amp; Workshop

**An Intransitive Relation on Knots***November 4, 2017*

AMS Sectional Meeting, Riverside, CA, Invited Talk

*September 19, 2017*

Claremont Colleges Topology Seminar, Invited Talk

**Teaching An Interactive Introduction to Knot Theory***July 29, 2017*

MathFest, Chicago, IL, Contributed Talk

**Daily Student Presentations in Quantitative Reasoning and Calculus***June 17, 2017*

Pacific Northwest MAA Sectional Meeting, Gonzaga University, Contributed Talk

**Knot Fertility and Heredity***March 11, 2017*

AMS Sectional Meeting, Charleston, SC, Invited Talk

*January 5, 2017*

Joint Mathematics Meetings, Atlanta, GA, Invited Talk

**RECENT SERVICE** 

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**Service to the Mathematics Community, Editorial***Editor MAA FOCUS*

Summer 2022 – present

Serving 4.5 year term as editor of the newsmagazine of the Mathematical Association of America.

*MAA's Committee on Journals*

Summer 2022 – present

Serving 4.5 year term on this committee representing *MAA FOCUS*.*MAA's Committee on Publications*

Summer 2022 – present

Serving 4.5 year term on this committee representing *MAA FOCUS*.*Editor of MAA Math Values Living Proof Blog*

Winter 2022 – present

Serving as editor-in-chief of the Living Proof blog, a sub-stream of the *MAA Math Values* blog.

- Associate Editor of the College Mathematics Journal* Winter 2019 – present  
Serving a four-year term on the editorial board of the MAA publication.
- Associate Editor of the Journal of Knot Theory and its Ramifications* Winter 2015 – present  
Serving on the editorial board for an indefinite period of time.
- Deputy Editor of MAA Math Values Blog* Winter 2021 – Fall 2021  
Served on the editorial board of the MAA publication.
- Founder and Editor of AMS Living Proof Blog* Fall 2019 – Fall 2021  
Served as editor-in-chief until all blog hosting terminated by AMS.
- Associate Editor of PRIMUS* Fall 2015 – Summer 2018  
Served on the editorial board for a three-year term.
- Associate Editor of Mathematics Magazine* Summer 2014 – Fall 2018  
Served a four-year term on the editorial board of the MAA publication.
- Referee and Reviewer* ongoing  
Served as referee/reviewer for *MathSciNet*, the NSA Mathematical Sciences Grant Program, the NSF Division of Mathematical Sciences, Cambridge University Press, *Journal of Knot Theory and Its Ramifications*, *Journal of the Mathematical Society of Japan*, *Fundamenta Mathematicae*, *International Journal of Mathematics, Topology and Its Applications*, *Discrete Mathematics*, *Communications in Contemporary Mathematics*, *Experimental Mathematics*, *Mathematics Magazine*, *American Mathematical Monthly*, *College Mathematics Journal*, *Numeracy*, *PRIMUS*, *Involve*, *Kyongpook Mathematical Journal*, and MCURCSM as well as various books, book chapters, and book proposals.

### Service to the Mathematics Community, Other

- MAA's Committee on Program Review* Summer 2023 – Summer 2026  
Appointed to this committee position, to begin in 2023.
- Program Coordinator, UR SIGMAA* Winter 2019 – Winter 2022  
Served in the role on the leadership team of the Special Interest Group of the MAA responsible for organizing events related to undergraduate research.
- PNW-MAA Distinguished Teaching Award Committee* Fall 2019 – Winter 2022  
Served a three-year term on this committee of our regional MAA section.
- MAA Committee on the Alder Award* Fall 2017 – Fall 2021  
Served a four year term on this MAA committee to determine Alder Award winners.
- Councilor for the Council on Undergraduate Research* Summer 2014 – Spring 2020  
Served two three-year terms as councilor. Served three terms as the Secretary of the Division of Mathematics and Computer Science in the national CUR organization.
- Special Session Organizer* ongoing  
Regularly organize special sessions for AMS and MAA national and regional meetings.
- Conference Panelist* ongoing  
Routinely serve as a panelist on panels for Project NExT and Section NExT and other organizations at national and regional meetings of the MAA and AMS.
- Program Reviewer* ongoing  
Regularly serve as an external reviewer for mathematics departments across the country.

### Service to Seattle University and the College of Science & Engineering

- Co-chair of the Reigniting Our Strategic Directions Goal 2.2* Spring 2022 – present  
Serving as co-chair of strategic direction focused on professional formation for faculty.
- Co-chair of CSE Dean Search Committee* Summer 2021 – Spring 2022  
Co-led committee to hire the next dean of the College of Science and Engineering.

- CSE Faculty Senate Bylaws Committee* Spring 2019 – Fall 2021  
Served on committee to create first bylaws for proposed new College of Science & Engineering Faculty Senate.
- Physics Departmental Personnel Committee* Fall 2019  
Served as a departmental committee member to evaluate the promotion case for a Physics faculty member.
- Peer Teaching Reviewer* Spring 2014 – Summer 2017  
Conducted nine formal peer teaching reviews for faculty members both within and outside of the math department.
- Faculty Learning Community Facilitator* Fall 2016 – Winter 2017  
Facilitated a faculty learning community on Paul Silvia's book "How to Write a Lot" for the Center for Faculty Development.
- S & E Grant Accounting Technician Hiring Committee* Spring 2016  
Served on a 3-person committee to hire our college's new Grant Accounting Technician.
- Learning Assistance Programs Learning Strategy Workshops* Spring 2012 – Winter 2016  
Helped to develop and facilitate workshop entitled "How to study for and succeed in a math class."  
Facilitated workshop 1-2 times each year.
- New Chair and Director Institute Planning Committee* Winter 2015 – Spring 2015  
Served on the planning committee for the second NCDI, a workshop that serves to prepare new chairs and directors at SU.

### **Service to the Seattle University Mathematics Department**

- Undergraduate Research Advisor* Fall 2010 — present  
Advised several undergraduate research projects for 21 SU students.
- Student Academic Advisor* Fall 2010 – present  
Advisor to Seattle University undergraduate math majors.
- Math + Art Speaker Series Founder & Organizer* Fall 2014 – present  
Founded and organized annual speaker series to bring math artists to campus to speak about their work.
- Math Department RIDER Committee* Winter 2019 – present  
Serving on department committee to improve recruitment and retention of students by improving departmental climate.
- Promotion Review Chair* Fall 2022  
Served as acting chair for the promotion to the rank of professor process for a faculty colleague.
- Promotion Review Committee Member* Fall 2022  
Served on the committee to evaluate one faculty colleague for promotion to the rank of professor.
- Promotion Review Committee Member* Fall 2021  
Served on the committee to evaluate two faculty colleagues for promotion to the rank of professor.
- Co-organizer of Mathematics Department Colloquium Series* Fall 2019 – Spring 2020  
Served one-year term to co-organize this weekly speaker series.
- Chair of the Mathematics Department* Summer 2014 – Spring 2017  
Served a three-year term as chair with countless responsibilities.
- SMART Fridays* Winter 2016 – Spring 2017  
Launched and co-organized monthly event that serves as a forum for students to present their undergraduate research in math, applied math, or statistics.
- Math Department Bylaws Committee* Spring 2016 – Spring 2017  
Serving as chair of a committee to develop department bylaws.
- Math Department Assessment Committee* Fall 2014 – Spring 2017  
Serving on a three-person departmental committee to assess our department's curriculum.

**PROFESSIONAL AFFILIATIONS**

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Mathematical Association of America (MAA)  
National Association of Mathematicians (NAM)  
American Mathematical Society (AMS)  
Council on Undergraduate Research (CUR)  
Math Alliance  
Phi Beta Kappa ( $\Phi BK$ )