

William & Mary

Curriculum Vita Standard Format

PERSONAL INFORMATION

Name: **Eric A. Swartz** Date: October 21, 2026

Office Address: 133 Jones Hall
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Current Position: Associate Professor, Department of Mathematics

EDUCATION

Ph.D., The Ohio State University, Department of Mathematics, 2009
B.A., Harvard University, Mathematics, 2004

ACADEMIC POSITIONS

Associate Professor, Department of Mathematics, William & Mary, 2021-present
Assistant Professor, Department of Mathematics, William & Mary, 2015-2021
Research Associate, Centre for the Mathematics of Symmetry and Computation, University of Western Australia, 2013-2015
Riley Visiting Assistant Professor, Department of Mathematical Sciences, Binghamton University (State University of New York), 2010-2012
Lecturer, Department of Mathematics, The Ohio State University, 2009-2010

HONORS, PRIZES, AND AWARDS

Simon Prize for Excellence in the Teaching of Mathematics, (Department of Mathematics, William & Mary), 2021.
Phil Huneke Excellence in Teaching Award (Department of Mathematics, The Ohio State University), 2007.
Distinguished First-Year Graduate Student Teaching Associate Award (Department of Mathematics, The Ohio State University), 2006.

FELLOWSHIPS AND RESEARCH GRANTS

2019–2021 **US-Slovenia Bilateral Grant:** 3030€
BI-US/19-21-106, co-PI: Luke Morgan (University of Primorska)

2018 **William & Mary Summer Faculty Research Award:** $4000

2017 **William & Mary Reves Faculty Conference Travel Grant:** $500

2017-2018 Senior personnel of **EXTREEMS-QED: Computational and Statistical theory and techniques in the study of large data sets**, DMS-1331021, National Science Foundation, 2013-2019, $879,498. (PI: J. Shi, co-PI: S. Day, C. Li and G. Yu)

2016 **William & Mary Summer Faculty Research Award:** $4000

2015 **University of Western Australia Research Collaboration Award**: AU$9,100
"Combinatorial Designs and Finite Geometries", co-PI: Padraig Ó Catháin (then at Monash University, now at Worcester Polytechnic Institute)

2013 **University of Western Australia ECM Research Development Grant:** AU$10,000
co-PI: Irene Pivotto (University of Western Australia)

2012 **American Mathematical Society-Simons Travel Grant:** $4,000

RESEARCH

Refereed Peer-Reviewed Publications in Journals (in all cases, was involved in all aspects of the publication; * indicates undergraduate student author, ** indicates graduate student coauthor;

1. E. Swartz, A construction of an infinite family of 2-arc transitive polygonal graphs of arbitrary odd girth, *Journal of Combinatorial Theory Series A* 117 (6), 2010, 783-789. Available at http://dx.doi.org/10.1016/j.jcta.2009.07.001

2. E. Swartz, A construction of an infinite family of 2-arc transitive polygonal graphs of arbitrary even girth, *Journal of Algebraic Combinatorics* 33 (1), 2011, 95-109. Available at http://dx.doi.org/10.1007/s10801-010-0235-7

3. Á. Seress and E. Swartz, A note on the girth-doubling construction for polygonal graphs, *Journal of Graph Theory* 68, 2011, 246-254. Available at http://dx.doi.org/10.1002/jgt.20555

4. E. Swartz, The locally 2-arc transitive graphs admitting an almost simple group of Suzuki type, *Journal of Combinatorial Theory Series A* 119, 2012, 949-976. Available at http://dx.doi.org/10.1016/j.jcta.2012.01.005

5. Á. Seress and E. Swartz, A family of near-polygonal graphs of valency 10, *Annals of Combinatorics* 16, 2012, 891-903. Available at http://dx.doi.org/10.1007/s00026-012-0166-1

6. J. Bamberg, S. Glasby, and E. Swartz, AS-Configurations and skew-translation generalised quadrangles, *Journal of Algebra* 421, 2015, 311-330. Available at http://dx.doi.org/10.1016/j.jalgebra.2014.08.031

7. E. Swartz, A construction of a partial difference set in the extraspecial groups of order p^3 with exponent p^2, *Designs, Codes and Cryptography* 75 (2), 2015, 237-242. Available at http://dx.doi.org/10.1007/s10623-013-9903-7

8. J. Bamberg, M. Lee*, and E. Swartz. A note on relative hemisystems of Hermitian generalised quadrangles, *Designs, Codes and Cryptography* 81 (1), 2016, 131--144. Available at http://dx.doi.org/10.1007/s10623-015-0135-x

9. L. Morgan, E. Swartz, and G. Verret. On 2-arc-transitive graphs of order kp^n, *Journal of Combinatorial Theory Series B* 117, 2016, 77–87. Available at https://doi.org/10.1016/j.jctb.2015.11.001

10. E. Swartz. Locally 3-arc-transitive regular covers of complete bipartite graphs, *Electronic Journal of Combinatorics* 23 (2), 2016, Paper 2.18, 20 pp. Available at http://www.combinatorics.org/ojs/index.php/eljc/article/view/v23i2p18/pdf

11. E. Swartz. On the covering number of symmetric groups having degree divisible by six, *Discrete Mathematics* 339 (11), 2016, 2593–2604. Available at https://doi.org/10.1016/j.disc.2016.05.004

12. L.-C. Kappe, D. Nikolova-Popova, E. Swartz. On the covering number of small symmetric groups and some sporadic simple groups, *Groups Complexity Cryptology* 8 (2), 2016, 135–154. Available at https://doi.org/10.1515/gcc-2016-0010

13. J. Bamberg, C.-H. Li, and E. Swartz. A classification of finite antiflag-transitive generalized quadrangles, *Transactions of the American Mathematical Society* 370, 2018, 1551–1601. Available at https://doi.org/10.1090/tran/6984

14. J. Bamberg, B. Corr, A. Devillers, D. Hawtin**, I. Pivotto, and E. Swartz. The circular altitude of a graph, *Australasian Journal of Combinatorics* 72 (2), 2018, 357–368. Available at https://ajc.maths.uq.edu.au/pdf/72/ajc_v72_p357.pdf

15. R. Oppenheim* and E. Swartz. On the covering number of S_{14}, *Involve* 12 (1), 2019, 89–96. Available at https://doi.org/10.2140/involve.2019.12.89

16. E. Swartz. On generalized quadrangles with a point regular group of automorphisms, *European Journal of Combinatorics* 79, 2019, 60–74. Available at https://doi.org/10.1016/j.ejc.2018.12.006

17. R. Egan, P. Ó Catháin, and E. Swartz. Spectra of Hadamard matrices, *Australasian Journal of Combinatorics* 73 (3), 2019, 501–512. Available at https://ajc.maths.uq.edu.au/pdf/73/ajc_v73_p501.pdf

18. O. Gnilke, M. Greferath, C. Hollanti, G. Nuñez Ponasso**, P. Ó Catháin, and E. Swartz. Improved User-Private Information Retrieval via Finite Geometry, *Designs, Codes and Cryptography* 87 (2-3), 2019, 665--677. Available at https://doi.org/10.1007/s10623-018-00591-9

19. T. Olson* and E. Swartz. Transitive PSL(2,11)-invariant arcs in PG(4,q), *Designs, Codes and Cryptography* 87 (8), 2019, 1871–1879. Available at https://doi.org/10.1007/s10623-018-0588-9

20. P. Ó Catháin and E. Swartz. Homomorphisms of matrix algebras and constructions of Butson-Hadamard matrices, *Discrete Mathematics* 342 (12), 2019. Available at https://doi.org/10.1016/j.disc.2019.111606

21. S. F. Afton* and E. Swartz. On prime order automorphisms of generalized quadrangles, *Algebraic Combinatorics* 3 (1), 2020, 143–160. Available at https://doi.org/10.5802/alco.89

22. E. Swartz and N. Werner. Fuchs' problem for 2-groups, *Journal of Algebra* 556, 2020, 225–245. Available at https://doi.org/10.1016/j.jalgebra.2020.02.025

Corrigendum to "Fuchs' problem for 2-groups", *Journal of Algebra* 608 (2022), 25–36.

23. E. Swartz and N. Werner. On the number of reachable pairs in a digraph, *Australasian Journal of Combinatorics* 77 (2), 2020, 184–223. Available at https://ajc.maths.uq.edu.au/pdf/77/ajc_v77_p184.pdf

24. J. Bamberg, C.H. Li, and E. Swartz. A classification of finite 2-transitive generalized quadrangles, *Transactions of the American Mathematical Society* 374 (3), 2021, 1535–1578. Available at https://doi.org/10.1090/tran/8236

25. A. Schaefer** and E. Swartz. Graphs that contain multiply transitive matchings, *European Journal of Combinatorics* 92, 2021, 103236, 22 pp. Available at https://doi.org/10.1016/j.ejc.2020.103236

26. E. Swartz and G. Tauscheck*. Restrictions on parameters of partial difference sets in nonabelian groups, *Journal of Combinatorial Designs* 29 (1), 2021, 38–51. Available at https://doi.org/10.1002/jcd.21754

27. E. Swartz and N. Werner. Covering numbers of commutative rings, *Journal of Pure and Applied Algebra* 225 (8), 106622, 17 pp. Available at https://doi.org/10.1016/j.jpaa.2020.106622

28. M. Garonzi, L.-C. Kappe, and E. Swartz. On integers that are covering numbers of groups, *Experimental Mathematics* 31 (2022), no. 2, 425--443. Available at https://doi.org/10.1080/10586458.2019.1636425

29. M. Giudici and E. Swartz. Locally s-arc transitive graphs arising from product action. *Ars Mathematica Contemporanea* 23 (2023), no. 2, Paper No. 10, 14 pp. Available at https://doi.org/10.26493/1855-3974.2857.07b

30. E. Swartz and N. Werner. A new infinite family of σ-elementary rings. *Communications in Algebra* 52 (2024), 172–188. Available at https://doi.org/10.1080/00927872.2023.2237575

31. E. Swartz and N. Werner. The covering numbers of rings. *Journal of Algebra* 639 (2024), 249–280. Available at https://doi.org/10.1016/j.jalgebra.2023.10.016

32. E. Swartz and N. Werner. Null ideal sets of 3 x 3 similar matrices with irreducible characteristic polynomial. *Linear and Multilinear Algebra* 72 (2024), no. 15, 2516–2538. Available at https://doi.org/10.1080/03081087.2023.2271639

33. J. Polhill, J. Davis, K. Smith, and E. Swartz. Genuinely nonabelian partial difference sets. *Journal of Combinatorial Designs* 32 (2024), no. 7, 351–370. Available at https://doi.org/10.1002/jcd.21938

34. J. Davis, J. Polhill, K. Smith, E. Swartz, and J. Webster. New Spence difference sets. *Designs, Codes and Cryptography* 93 (2025), No. 4, 879–888. Available at https://doi.org/10.1007/s10623-024-01446-2

35. E. Swartz and N. Werner. Exponential and weakly exponential subgroups of finite groups. *International Journal of Group Theory* 14 (2025), No. 4, 263--283. Available at https://doi.org/10.22108/ijgt.2024.142395.1918

36. J. Davis, J. Polhill, K. Smith, and E. Swartz. Nonabelian partial difference sets constructed using abelian techniques. *Algebraic Combinatorics* 8, No. 2 (2025), 399–419. Available at https://alco.centre-mersenne.org/articles/10.5802/alco.416/

37. P. Clare, C.-K. Li, E. Poon, and E. Swartz. Noncommutative distances on graphs: An explicit approach via Birkhoff-James orthogonality. *Journal of Geometry and Physics* 213 (2025), Paper No. 105483, 20 pages. Available at https://doi.org/10.1016/j.geomphys.2025.105483

38. M.H.W. Chen**, E. Swartz, and N. Werner. Covering rings by proper ideals. *Communications in Algebra*. Available at https://doi.org/10.1080/00927872.2026.2642375

39. E. Swartz, J.A. Davis, J. Polhill, and K. Smith. Combinatorial transfer: a new method for constructing infinite families of nonabelian difference sets, partial difference sets, and relative difference sets. *Combinatorial Theory*, to appear. Preprint available at https://arxiv.org/abs/2407.18385

Preprints:

40. Z. Huang, C.-K. Li, E. Swartz, and N.-S. Sze. Cliques and independent subgroups of the Birkhoff polytope graph. Submitted. Preprint available at https://arxiv.org/abs/2212.12655

41. S.R. Nelson* and E. Swartz. Character theoretic techniques for nonabelian partial difference sets. Submitted. Preprint available at https://arxiv.org/abs/2507.23039

42. M. Ferreri, P.E. Harris, L. Martinez**, and E. Swartz. Enumerating Vector Parking Functions and their Outcomes Based on Specified Lucky Cars. Submitted. Preprint available at https://arxiv.org/abs/2508.13917

43. M. Ferreri, E. Swartz, and N. Werner. Circular sorting in the alternating group. Submitted. Preprint available at https://arxiv.org/abs/2608.06338

44. E. Swartz. The effect of edge deletion on noncommutative distances on graphs. Submitted. Preprint available at https://arxiv.org/abs/2610.07718

Work in progress:

J. Elmore and E. Swartz. New examples of directed strongly regular Cayley graphs. In progress.

Invited scholarly talks:

Covering numbers of rings with unity, *University of Richmond Mathematics Colloquium,* October 2021.

Fuchs' problem for 2-groups, *University of Western Australia Groups and Combinatorics Seminar (Online),* June 2020.

Reachable pairs in digraphs and zero pattern matrix rings, *Virginia Commonwealth University Discrete Math Seminar,* September 2018.

Reachable pairs in digraphs and zero pattern matrix rings, *Worcester Polytechnic Institute Discrete Math Seminar,* September 2018.

Graphs that contain multiply transitive matchings, *AMS Sectional Meeting (University of North Texas), Special Session on Generalizations of Graph Theory,* September 2017.

Highly transitive matchings in graphs, *Binghamton University Combinatorics Seminar,* December 2016

Highly symmetric Hadamard matrices, *Aalto University Algebra, Number Theory, and Applications Seminar*, January 2016

Generalized quadrangles with symmetry, *University of Delaware Discrete Mathematics Seminar,* November 2015.

Highly symmetric Hadamard matrices, *Monash Univeristy Discrete Mathematics Seminar,* June 2015.

Generalized quadrangles with symmetry, *Binghamton University Geometry and Topology Seminar (joint with Algebra Seminar and Combinatorics Seminar),* February 2015.

Highly symmetric generalized quadrangles, *Joint Meeting of the American Mathematical Society and Mathematical Association of America, Special Session on What's New in Group Theory?,* January 2015.

Lifting automorphisms of finite graphs, *Binghamton University Graduate Conference in Algebra and Topology,* November 2012.

Locally 3-arc transitive covers of complete bipartite graphs, *Cornell University Discrete Geometry and Combinatorics Seminar,* October 2012.

Locally s-arc transitive graphs arising from the product action, *The 31st Ohio State-Denison Mathematics Conference,* May 2012.

The locally 2-arc transitive graphs admitting an almost simple group of Suzuki type, *University of Western Australia Groups and Combinatorics Seminar,* January 2012.

Locally 2-arc transitive graphs, *Discrete Math Days – St. Michael's College,* July 2011.

Locally 2-arc transitive graphs, *Cornell University Discrete Geometry and Combinatorics Seminar*, February 2011.

Contributed Scholarly Talks:

Combinatorial transfer: a method for constructing infinite families of difference sets and partial difference sets in nonabelian groups, *Combinatorics 2026 (Naples, Italy),* May 25, 2026.

The covering numbers of rings I, *Conference on Rings and Polynomials (Graz, Austria),* July 14, 2025.

The covering numbers of rings I, *Zassenhaus Groups and Friends Conference*, June 3, 2023.

Restrictions on parameters of partial difference sets in nonabelian groups, *Combinatorial Designs and Codes (Online),* July 2021.

Restrictions on parameters of partial difference sets in nonabelian groups, *2021 Zassenhaus Groups and Friends Conference (Online),* June 2021.

Covering numbers of rings, *2020 Zassenhaus Groups and Friends Conference (Online),* May 2020.

Locally 2-transitive generalized quadrangles, *Finite Geometries and Extremal Combinatorics 2019*, August 2019.

Locally 2-transitive generalized quadrangles, *2019 Zassenhaus Groups and Friends Conference*, June 2019.

Covering numbers of finite groups: a computational approach, *Groups St. Andrews 2017*, August 2017.

Highly transitive matchings in graphs, *Symmetry in Finite and Infinite Structures*, July 2017.

Covering numbers of finite groups: a computational approach, *2017 Zassenhaus Group Theory and Friends Conference*, May 2017

2-arc-transitive graphs of order kp^n, *AMS Sectional Meeting (University of Denver), Special Session on Algebraic Combinatorics*, October 2016

Covering symmetric groups with proper subgroups, *2016 Zassenhaus Group Theory Conference*, June 2016.

Covering symmetric groups with proper subgroups, *8th Australia and New Zealand Mathematics Convention*, December 2014.

Antiflag-transitive generalized quadrangles, *38th Australasian Conference on Combinatorial Mathematics and Combinatorial Computing*, December 2014.

Antiflag-transitive generalized quadrangles, *Finite Geometries 2014*, September 2014.

Antiflag-transitive generalized quadrangles, *Algebra, Geometry, and Computation*, July 2014.

New examples of strongly regular Cayley graphs, *Joint Meeting of the American Mathematical Society and Mathematical Association of America, Special Session on Trends in Graph Theory*, January 2014.

New examples of strongly regular Cayley graphs, *37th Australasian Conference on Combinatorial Mathematics and Combinatorial Computing*, December 2013.

New examples of partial difference sets in finite nonabelian groups, *Groups St. Andrews*, August 2013.

Locally 2-arc transitive covers of complete bipartite graphs, *American Mathematical Society Fall Eastern Sectional Meeting, Special Session on New Advances in Graph Theory,* September 2012.

The locally 2-arc transitive graphs admitting an almost simple group of Suzuki type, *Graphs, Designs, and Algebraic Combinatorics 2011,* July 2011.

The locally 2-arc transitive graphs admitting an almost simple group of Suzuki type, *7th Slovenian International Conference on Graph Theory,* June 2011.

2-arc transitive polygonal graphs of large girth and degree, *The 22nd Cumberland Conference on Graph Theory/Combinatorics/Computing*, May 2009.

2-arc transitive polygonal graphs of large girth and valency, *MIGHTY (Midwestern Graph Theory) XLVIII*, May 2009.

2-arc transitive polygonal graphs of large girth and valency, *CombinaTexas '09,* April 2009.

A construction of an infinite family of 2-arc transitive polygonal graphs of arbitrary odd girth, *AMS Spring Central Sectional Meeting, Contributed Paper Session,* March 2009.

Student mentoring:

Honors supervisor for James Elmore, *Methods of Computational Search for Strongly Regular Graphs,* 2025–2026

Co-supervisor for Honors Thesis of Ina Lynch (Primary advisor: Melanie Ferreri), *Approaching the Turán Problem through Generalized Kac-Moody Lie Algebras,* 2025–2026

Co-supervisor for Honors Thesis of Eileen Sawyer (Primary advisor: Melanie Ferreri), *Characterizing Variations of (k,l)-Pullback (m,n)-Parking Functions,* 2025–2026.

Honors supervisor for Seth Nelson (Leiba Rodman Prize), *Character Theoretic Techniques for Nonabelian Partial Difference Sets,* 2024–2025

Honors supervisor for Ryan Pesak, *Automorphisms of a Generalized Quadrangle of Order 6,* 2022–2023

Honors supervisor for Nathaniel Healy (Leiba Rodman Prize), *Enumerating Switching Isomorphism Classes of Signed Graphs,* 2021–2022

Supervised reading and research for Alex Gallehr, 2022

Supervised reading and research for Kailai Cui, 2021–2022

Honors supervisor for Samantha Phillips, *A Survey of Methods to Determine Quantum Symmetry of Graphs,* 2020–2021

Co-supervisor for Honors thesis of Akshara Pisharody (Primary advisor: Pierre Clare), *Determining Quantum Symmetry in Graphs Using Planar Algebras,* 2020–2021

Supervised reading and research for Thomas Wang, 2021.

Independent research supervisor for Aditya Mohan, 2019–2020.

Monroe Scholars summer research project advisor for Kerry Wang, *Ovoids in generalized quadrangles,* 2019.

Monroe Scholars summer research project advisor for Abigail Van Essendelft, *Mathematics of Art*, 2019.

Honors supervisor for Gabrielle Tauscheck, *Partial Difference Sets in Nonabelian Groups and Strongly Regular Cayley Graphs,* 2018–2019.

EXTREEMS-QED summer research project advisor for Cooper Spinelli, *Relative difference sets in nonabelian groups*, 2018.

Summer reading/research advisor for Aditya Mohan, 2018.

Honors supervisor for Yoongbok Lee (recipient of Honors Fellowship), *Implementation and analysis of the Nonlinear Decomposition Attack on Polycyclic Groups*, 2017–2018.

Honors supervisor for Santana Afton, *On Automorphisms of Generalized Quadrangles with a Prime Parameter,* 2017–2018.

EXTREEMS-QED summer research project advisor for Torger Olson, *Arcs in PG(4,q),* 2017.

Monroe Scholars summer research project advisor for Ryan Oppenheim, *On the covering number of* S_{14}, 2016.

Honours project co-supervisor (with John Bamberg) for Melissa Lee (University of Western Australia), *Relative Hemisystems on the Hermitian Surface,* 2014.

COURSES TAUGHT AT THE COLLEGE LEVEL

At William & Mary

Fall 2026	MATH 214 – Foundations of Mathematics
	MATH 430 – Algebra II
Spring 2026	MATH 307H – Honors Abstract Algebra
	MATH 309 – Theory of Vector Spaces
	MATH 496 – Honors
Fall 2025	MATH 214 – Foundations of Mathematics
	MATH 430 – Algebra II
	MATH 495 – Honors
Spring 2025	MATH 214 – Foundations of Mathematics
	MATH 307H – Honors Abstract Algebra
	MATH 410 – Reading in Algebraic Coding Theory
	MATH 496 – Honors
Fall 2025	MATH 300 – Mathematical Sciences Writing
	MATH 316 – Euclidean and Non-Euclidean Geometry
	MATH 430 – Algebra II
	MATH 495 – Honors
Spring 2024	MATH 307H – Honors Abstract Algebra
	MATH 430 – Algebra II
	MATH 300 – Mathematical Sciences Writing
Fall 2023	MATH 214 – Foundations of Mathematics
	MATH 307 – Abstract Algebra
Spring 2023	MATH 214 – Foundations of Mathematics
	MATH 307 – Abstract Algebra
	MATH 496 – Honors
	MATH 300 – Mathematical Sciences Writing
Fall 2022	(on leave)
	MATH 495 – Honors
Spring 2022	(on leave)
	MATH 496 – Honors
Fall 2021	MATH 307 – Abstract Algebra
	MATH 410 – Permutation Groups
	MATH 495 – Honors
Spring 2021	MATH 214 – Foundations of Mathematics
	MATH 410 – Reading in Algebraic Graph Theory
	MATH 430 – Algebra II
	MATH 496 – Honors
Fall 2020	MATH 214 – Foundations of Mathematics
	MATH 311 – Elementary Analysis
	MATH 410 – Reading in Abstract Algebra

	MATH 495 – Honors
Spring 2020	MATH 214 – Foundations of Mathematics
	MATH 307 – Abstract Algebra
	MATH 400 – Mathematical Connections (converted to this from MATH 496)
Fall 2019	MATH 100 – Symmetry
	MATH 311 – Elementary Analysis
	MATH 410 – Research in Combinatorics (converted to this from MATH 495)
Spring 2019	MATH 100 – Symmetry
	MATH 214 – Foundations of Mathematics
	MATH 214 – Foundations of Mathematics
	MATH 496 – Honors
Fall 2018	(on leave)
	MATH 495 – Honors
Spring 2018	MATH 307 – Abstract Algebra
	MATH 309 – Intermediate Linear Algebra
	MATH 496 – Honors
Fall 2017	MATH 100 – Symmetry
	MATH 307 – Abstract Algebra
	MATH 495 – Honors
Spring 2017	MATH 100 – Symmetry
	MATH 307 – Abstract Algebra
Fall 2016	MATH 214 – Foundations of Mathematics
	MATH 307 – Abstract Algebra
Spring 2016	MATH 212 – Introduction to Multivariable Calculus
	MATH 307 – Abstract Algebra
Fall 2015	MATH 112 – Calculus II
	MATH 212 – Introduction to Multivariable Calculus

At Binghamton University
Calculus I (differential calculus)
Linear Algebra
Calculus III (multivariable calculus)
Number Systems (an introduction to proofs for math majors)
Graph Theory (undergraduate course)
Introduction to Graph Theory (graduate course)

At Ohio State
Elementary Functions (precalculus)
Calculus and Analytic Geometry I (differential calculus for engineers)
Calculus and Analytic Geometry II (integral calculus for engineers)
Mathematical Analysis for Business II (differential calculus for business students)
Mathematical Analysis for Business III (integral calculus for business students)
Discrete Mathematical Structures I (introduction to discrete mathematics)
Peer Mentor/Master Teacher for Seminar in Teaching College Mathematics

PROFESSIONAL SERVICE

Service for William & Mary:

- William & Mary Curriculum Committee (university-wide), Chair, Fall 2025 to present.
- Assessment Steering Committee (university-wide), Fall 2025 to present.
- Educational Policy Committee (elected, A&S wide), Fall 2024 to present; Chair Fall 2025 to present.
- Undergraduate Curriculum Committee for Department of Mathematics, Fall 2022 to present; Chair, Fall 2025 to present.
- Pure Mathematics Unit Personnel Committee, Fall 2022 to Spring 2025.
- Mathematics Department Scheduling Committee, Fall 2024 to present.
- PhD Proposal Committee for Department of Mathematics, Spring 2023 to present.
- Editor for Processes for Institutional Effectiveness (PIEs) for Department of Mathematics, Fall 2020 to Fall 2021 and Fall 2025 to present.
- Hiring committees (TE and VATP, Chair), 2024–2025
- Hiring committees (VATP and ATP), 2023–2024
- Honors and Research Committee (Chair) for Department of Mathematics, Fall 2023 to Spring 2024.
- Web Presence and Outreach Committee (Chair) for Department of Mathematics, Fall 2023 to Spring 2024
- Member of Merit Evaluation Committee for Department of Mathematics, Fall 2016, Fall 2018, Fall 2019, Fall 2025.
- PME Math Club Sponsor, Spring 2019 to Fall 2021.
- Library Representative for Department of Mathematics, September 2015 to August 2018.
- Member of Math Competition Committee for Department of Mathematics, September 2016– August 2018.
- Member of panel for undergraduates at William & Mary Majors Information Fair, Spring 2016
- Freshman/Sophomore advisor to 6–8 students per year, 2016–2021, 2023 to present
- Major advisor for Mathematics (numerous students)

Other Professional Service:

- Division Editor (Algebra), *Communications in Mathematics*, November 2017 to present.
- Co-organizer, *Algebra/Combinatorics Session at the 8th Australia and New Zealand Mathematics Convention*, December 2014.
- Co-organizer, *37th Australasian Conference on Combinatorial Mathematics and Combinatorial Computing*, December 2013.
- Co-organizer, *Binghamton Combinatorics Seminar*, 2010–2012.

- Volunteer, *Western Australia Junior Mathematics Olympiad,* 2013–2014.
- Volunteer, *University of Western Australia Academy for Young Mathematicians,* 2013.
- Referee, *Journal of Combinatorial Theory, Series A; Journal of Graph Theory; Discrete Mathematics; Australasian Journal of Combinatorics; Discrete Applied Mathematics; Expositiones Mathematicae; European Journal of Combinatorics; Ars Mathematica Contemporanea; Electronic Journal of Combinatorics; AKCE International Journal of Graphs and Combinatorics; Journal of Algebra and Its Applications; Acta et Commentationes Universitatis Tartuensis de Mathematica; Discussiones Mathematicae Graph Theory; Involve; Journal of Pure and Applied Algebra; Applied Mathematical Modeling; Combinatorica; PME Journal; Quasigroups and Related Systems; Journal of Group Theory; Journal of Algebra, Combinatorics, Discrete Structures, and Applications; Journal of Algebra; Linear and Multilinear Algebra; Advances in Mathematics; Journal of Combinatorial Designs; Ricerche di Matematica; Bulletin of the Malaysian Mathematical Society; Communications in Algebra*
- Reviewer, *Math Reviews on MathSciNet (26 reviews)*