

6/1/2024

AMY N. MYERS

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EDUCATION

- 1994 - 1999 **Dartmouth College** Hanover, NH
Ph.D. in Mathematics, June 1999
Major Area: Combinatorics
Thesis Advisor: Kenneth P. Bogart

M.A. in Mathematics, June 1996
- 1990 - 1994 **St. Olaf College** Northfield, MN
B.A. in Mathematics, June 1994
Awarded Phi Beta Kappa, Magna Cum Laude, and
Department of Mathematics Honors

TEACHING EXPERIENCE

- 2015 - 2024 **Senior Lecturer in Mathematics** Bryn Mawr College
- 2007 - 2015 **Lecturer in Mathematics** Bryn Mawr College
Taught single-variable calculus, multivariable calculus, linear algebra, statistics, probability, combinatorics, graph theory, and the history of mathematics. Led a seminar focused on writing and critical thinking for first-year student. Supervised independent studies on probability and the history of mathematics.
- 2002 - 2007 **Assistant Professor of Mathematics** St. Joseph's University
Taught undergraduate courses in calculus, statistics, contemporary mathematics, complex analysis, and combinatorics. Taught graduate courses in mathematics education, discrete structures, and the history of mathematics.

1999 - 2002	Lecturer in Mathematics Taught contemporary mathematics, linear algebra, graph theory, abstract algebra, differential equations, and vector calculus to undergraduate students. Taught combinatorics to graduate students.	University of Pennsylvania
1997 - 1999	Lecturer in Mathematics Taught one finite mathematics and two statistics courses.	Dartmouth College
1996	Teaching Seminar Explored the various ways students learn mathematics, and experimented with teaching techniques designed to address different learning styles. Guest taught Dartmouth undergraduate classes, ran a course in complex analysis for graduate students, and led a week-long program in mathematics for high school women.	Dartmouth College
1994 - 1996	Teaching Assistant Facilitated tutorial sessions and graded exams for two first-semester calculus courses, one multivariable calculus course, and one statistics course. Met with first-semester calculus students to monitor progress on group projects exploring the applications of calculus.	Dartmouth College
1994	Computer Lab Monitor Assisted junior-high and high-school students with computer programming projects as part of the Pre-Freshmen Engineering Program.	University of Texas
1993 - 1994	Computer Lab Monitor Assisted college students with Scheme and C++ programming assignments.	St. Olaf College

PROFESSIONAL DEVELOPMENT

2024	Tech for Good Participated in a workshop about using generative AI as a though partner in getting work done.	Virtual
2024	MAA Multivariable Calculus with CalcPlot3D Learned about developing learning activities using CalcPlot3D and 3D-printed models.	San Francisco, CA
2023	The Grading Conference Learned about alternatives to traditional grading, exchanged ideas with others, and began planning alternatively-graded courses.	Virtual
2022	LACRELA Racial Equity Problems in STEM Learned strategies for dismantling persistent racial equity challenges in science, technology, engineering, and math.	Virtual

2022	<p>MAA Inclusive Active Learning Learned about implementing equitable and inclusive teaching practices in introductory math courses.</p>	Virtual
2022	<p>Successful STEM Mentoring Initiatives Attended a workshop facilitated by a national leader in the study of mentoring, persistence, and inclusion, with a focus on STEM fields.</p>	Virtual
2021	<p>CoMInDS Graduate Student Teaching Attended a four-day program that provided instructional experiences and materials to faculty intending to establish or revise graduate student professional development programs.</p>	Virtual
2021	<p>Harvard edX Data Science Professional Certificate Completed the following online courses: R Basics, Visualization, Probability, Inference and Modeling, and Linear Regression.</p>	Virtual
2021	<p>AALAC Data Science in the Liberal Arts Attended a multi-day workshop with faculty from several different colleges to examine, explore, and shape a vision for the education and scholarship of Data Science at liberal arts institutions.</p>	Virtual
2021	<p>LACOL Toward Equity in Assessment Participated in a cross-constituency dialogue.</p>	Virtual
2021	<p>MAA Beyond Traditional Grading Schemes Participated in a minicourse about mastery-based grading.</p>	Virtual
2021	<p>CORA Racial Microaggressions Completed a four-part course designed to provide educators with an introduction to racial microaggressions and their various appearances in educational settings.</p>	Virtual
2020	<p>Advocating for Students of Color Attended a four-part webinar series for higher education faculty and administrators who are actively engaged in promoting equity, diversity, and inclusion within the mathematical sciences.</p>	Virtual
2020	<p>Bryn Mawr Online Teaching Institute Learned about planning for, successfully delivering, and creating community in online courses. Read chapters and articles offline, and watched technology demonstrations online.</p>	Virtual
2020	<p>LACOL 2020 Virtual Workshops Attended webinars designed to introduce faculty to ways of envisioning and implementing online courses.</p>	Virtual

2020	MAA Statistics for Data Science Workshop Attended a four-hour workshop on teaching introductory statistics for data science.	Denver, CO
2018 - 2020	DEI Conversations Participated in campus book clubs and discussion groups dedicated to understanding and acting to promote diversity, equity, and inclusion. Groups include Showing Up White, the Coalition for Anti-Racist Literacy at Bryn Mawr, Moving Forward Together, and a math department reading group.	Bryn Mawr, PA
2015 - 2020	DEI Events Participated in Community Days of Learning, the Posse Plus Retreat, and workshops for faculty to engage with issues concerning diversity, equity, and inclusion.	Bryn Mawr, PA
2019	Permutation Patterns Attended a three-day pre-conference workshop with the goal of learning background material relevant to recent advances in the field.	Zürich, Switzerland
2017	MAA Computer Graphics Attended a four-hour workshop on the mathematics of computer graphics.	Atlanta, GA
2016	MAA Active Learning Strategies Attended a four-hour workshop on increasing student engagement by means of active learning strategies.	Seattle, WA
2015	Access to Learning Attended a half-day workshop on Universal Design for Learning.	Haverford, PA
2015	MAA Health Care Applications Attended a four-hour workshop on mathematical applications to health care that are appropriate for introductory courses.	San Antonio, TX
2014	Technology Workshop Attended a short workshop on writing on screen and creating quizzes in <i>Moodle</i> .	Bryn Mawr, PA
2013	Social Explorer Pro Attended a short workshop on using software to explore census and demographic data.	Bryn Mawr, PA
2012	MAA Math and Dance Attended a four-hour workshop exploring the connections between mathematics and dance.	Boston, MA

2011	<p>Technology Workshop Attended a one-day workshop on blended learning and teaching with technology.</p>	Bryn Mawr, PA
2011	<p>MAA Linear Optimization Attended a four-hour workshop on linear optimization and its place in the undergraduate curriculum.</p>	New Orleans, LA
2009	<p>Teaching and Learning Initiative Attended a semester-long weekly seminar and worked with a student consultant to improve a first-semester calculus course.</p>	Bryn Mawr, PA
2009	<p>MAA Thematic Calculus Attended a four-hour workshop on teaching a conceptual single-variable calculus course.</p>	Washington, DC
2008	<p>AP Calculus Reading Graded Advanced Placement BC Calculus exams for the Educational Testing Service.</p>	Kansas City, MO
2008	<p>MAA Combinatorics Attended a four-hour workshop on the history, present, and future of Combinatorics.</p>	San Diego, CA
2007	<p>AP Calculus Reading Graded Advanced Placement AB Calculus exams for the Educational Testing Service.</p>	Louisville, KY
2007	<p>MAA Teaching Mathematics History Attended a four-hour workshop designed to improve the teaching of mathematics history to students at all levels.</p>	New Orleans, LA
2006	<p>MAA TA Training Received funding to attend a one-day workshop that addressed the training of teaching assistants for undergraduate classrooms through the use of case studies.</p>	San Antonio, TX
2003	<p>Viewpoints Received funding to attend a five-day workshop featuring classroom-tested activities and field trips that explored the connections between mathematics and art.</p>	Lancaster, PA
2002	<p>PREP Workshop Received funding to attend a two-week workshop designed to enhance effectiveness in teaching undergraduate students who plan to teach mathematics in secondary school.</p>	Potsdam, NY
2001	<p>AWM Workshop Received funding to attend a three-day workshop for women who recently earned the Ph.D. degree.</p>	New Orleans, LA

1998	Program in Mathematics and Molecular Biology Received funding to attend a two-week workshop introducing the use of mathematics to conduct research in molecular biology.	Berkeley, CA
1996 - 1997	Mathematical Sciences Research Institute Engaged in original research and attended seminars with a select group of mathematicians.	Berkeley, CA
1997	Tuck Business Bridge Program Received funding to attend a thirty-day program providing a rigorous introduction to accounting, finance, managerial economics, marketing, and strategy through coursework emphasizing group process.	Hanover, NH
1993	Budapest Semesters in Mathematics Engaged in a semester-long intensive study of mathematics combined with an introduction to the Hungarian language, history and culture.	Budapest, Hungary
1993	Summer Mathematics Institute Received funding to experience graduate-level mathematics with a select group of women undergraduates for an intensive six-week program at Mills College.	Oakland, CA

SERVICE

2007 - 2024	Mathematics Program Coordination Supervised student leaders in the organization of math department events including excursions to regional conferences, math major information sessions, Math Appreciation Week activities, and other social events. Organized departmental presence at the Academic Fair, maintained math bulletin boards, and coordinated the bi-annual newsletter.	Bryn Mawr College
2007 - 2024	Mathematics Course Placement Updated and maintained the mathematics placement system. Advised students, faculty, and staff concerning placement results. Consulted with the Registrar's Office about transfer credit.	Bryn Mawr College
2007 - 2024	Mathematics Student Employment Hired students to grade homework, run problems sessions, monitor computer labs, and help with office work. Supervised students in the organization of minicourses to review high-school mathematics.	Bryn Mawr College

2018 - 2024	CARLA Member Helped develop an anti-racism framework, co-created a website, and contributed other service to the community as part of the Coalition for Anti-Racist Literacy at Bryn Mawr.	Bryn Mawr College
2019 - 2024	Data Science Steering Committee Helped to envision, create, and maintain the Data Science Program.	Bryn Mawr College
2021 - 2024	STEM Posse Mentor Held weekly group meetings and bi-weekly individual meetings with ten Posse scholars. Met weekly with a trainer. Attended Posse Plus Retreats, multi-day summer trainings, and other events with Posse students and staff.	Bryn Mawr College
2022 - 2024	CARLA Anti-Racism Collective Circles Facilitated bi-weekly workshops for students, faculty, and staff dedicated to understanding and responding to racism on campus.	Bryn Mawr College
2023 - 2024	STEMLA Mentor Mentored two students as part of Bryn Mawr's Science, Technology, Engineering and Math in the Liberal Arts Program.	Bryn Mawr College
2024	Search Committee Served on a search committee for a staff member who would provide support for data science at Bryn Mawr.	Bryn Mawr College
2014 - 2023	MAAGC Conference Organizing Committee Helped coordinate an annual two-day conferences on the connections between algebraic combinatorics and algebraic geometry. Organized a panel discussion for the (cancelled) event in 2020.	Drexel University
2023	Information Table Represented the Bryn Mawr Graduate Program in Mathematics at the Joint Mathematics Meetings.	Bryn Mawr College
2023	Mathematics Search Committee Served on a search committee for an Assistant Professor.	Bryn Mawr College
2021 - 2022	CARLA Convener Co-organized meetings of the Coalition for Anti-Racist Literacy at Bryn Mawr.	Bryn Mawr College
2021 - 2022	COW Leadership Team Worked with a small group to find materials and facilitate discussion for the Confronting our Whiteness group of faculty and staff dedicated recognizing and understanding white privilege.	Bryn Mawr College

2021 - 2022	CARLA Anti-Racist Workspace Teach-Ins Collaborated with a small group to design and execute a two-part teach-in about creating an anti-racist workspace.	Bryn Mawr College
2022	Mathematics Search Committee Served on a search committee for an Assistant Professor.	Bryn Mawr College
2012 - 2020	BSM Council Served as a consultant to the Budapest Semesters in Mathematics program.	St. Olaf College
2013 - 2020	PAMTC Leadership Team Helped coordinate monthly mathematics enrichment workshops for middle-school teachers as part of the Philadelphia Area Math Teachers' Circle.	The Philadelphia School
2019 - 2020	Chemistry Search Committee Served on a search committee for a Laboratory Lecturer.	Bryn Mawr College
2008 - 2019	Faculty Advising Programs Volunteered for faculty advising and pilot programs.	Bryn Mawr College
2010 - 2019	Quantitative Reasoning Steering Committee Served on the search committee for, and provided feedback to, the Director of the Quantitative Center.	Bryn Mawr College
2015 - 2018	Fellowships Committee Alternate Assisted the Fellowships Committee members when extra help was needed.	Bryn Mawr College
2016 - 2018	FIPSE Research Study Participated in a study on the efficacy of using online instructional modules to help students in introductory STEM courses review fundamental math concepts and skills.	Bryn Mawr College
2017 - 2018	STEM Open Houses Participated in panel discussions and information sessions for prospective STEM majors.	Bryn Mawr College
2012 - 2014	Fellowships Committee Interviewed students applying for external fellowships, and selected recipients for awards.	Bryn Mawr College
2014	Ph.D. Dissertation Committee	Drexel University
2012 - 2013	STEM Posse Committee Consulted with coordinators of the STEM Posse, and developed a math and physics lab for new scholars.	Bryn Mawr College
2013	Book Review for the <i>Princeton University Press</i> Reviewed <i>Zombies and Calculus</i> by Colin Adams.	

2010 - 2011	Mathematics Search Committee Served on a search committee for an Assistant Professor.	Bryn Mawr College
2010 - 2011	Thinking Forward Committee Activities Participated in a fall faculty retreat and a spring working group.	Bryn Mawr College
2011	Ph.D. Qualifying Exam Committee	Drexel University
2010	Referee for the <i>Electronic Journal of Combinatorics</i>	
2010	Ph.D. Qualifying Exam Committee	Drexel University
2009	BSM Director Search Workshop Participated in a workshop intended to create a framework for the recruitment and selection of a new North American Director for the Budapest Semesters in Mathematics Program.	Washington, DC
2009	Book Contribution Acknowledged in <i>How to Guard an Art Gallery and Other Discrete Adventures</i> by T. S. Michael.	
2009	Referee for <i>Discrete Mathematics</i>	
2002 - 2006	Career Night Organized a panel discussion and provided a forum for informal conversation between mathematics and computer science students and alumni.	St. Joseph's University
2002 - 2006	High School Mathematics Day Designed and led a problem-solving contest as part of the Sonya Kovalevsky High School Mathematics Day for Philadelphia high-school girls.	St. Joseph's University
2005 - 2006	Elections Committee Solicited nominations and ran elections for committees.	St. Joseph's University
2005 - 2006	Curricular Architecture Committee Conducted research and provided recommendations concerning curricular architecture as part of a comprehensive curriculum review.	St. Joseph's University
2006	Referee for the <i>Journal of Applied Probability</i>	
2006	Referee for the <i>Electronic Journal of Combinatorics</i>	
2006	New Student Open Houses Organized two open houses for high-school students interested in studying math or computer science.	St. Joseph's University

2004 - 2005	Career Development Center Advisory Committee Consulted with Career Development Center representatives to improve service for students majoring in math or computer science.	St. Joseph's University
2005	Panelist Participated in a panel discussion for graduate students about interviewing with, and working for, different types of institutions.	University of Pennsylvania
2005	Referee for the <i>SIAM Journal on Discrete Mathematics</i>	
2003 - 2004	Exam and Dissertation Committees Served as a member of Ph.D. qualifying exam and doctoral dissertation committees.	Lehigh University
2003	Immersion Initiative in Bolivia Selected to travel to Jesuit schools in rural Bolivia and interact with local teachers, students, and supporters.	St. Joseph's University
2002	Referee for <i>Journal of Computer Science</i>	
1999 - 2002	Combinatorics Seminar Invited speakers, coordinated talks, and publicized a weekly seminar at the University of Pennsylvania.	University of Pennsylvania
1999 - 2002	Exam and Dissertation Committees Served as a member of Ph.D. qualifying exam and dissertation committees.	University of Pennsylvania
1999 - 2002	Transfer Credit Committee Evaluated requests for transfer credit.	University of Pennsylvania
1997 - 1999	International House Program Coordinator Organized lectures, receptions, dinners, film screenings, and social gatherings for the international community. Lived in the International House on campus, and served as an informal advisor to house residents.	Dartmouth College

GRANTS

2023	Change Agent Fund Grant Received funding to train facilitators for the CARLA Anti-Racism Collective Circles.	Bryn Mawr College
2020	Data Science Course Development Grant Received funding to develop an introductory course on statistics for data science.	Bryn Mawr College

2018	Mellon Faculty Forum Root Grant Received funding to support the Philadelphia Area Math Teachers' Circle.	Bryn Mawr College
2017	Mellon Faculty Forum Seed Grant Received funding to support the Philadelphia Area Math Teachers' Circle.	Bryn Mawr College
2016	Mellon Faculty Forum Seed Grant Received funding to support the Philadelphia Area Math Teachers' Circle.	Bryn Mawr College
2016	Mellon Tri-Co Brainstorming Grant Received funding to support the brainstorming of Tri-Co solutions to the problems posed by underprepared students in introductory math courses.	Bryn Mawr College
2015	Mellon Faculty Forum Seed Grant Received funding to support the Philadelphia Area Math Teachers' Circle.	Bryn Mawr College
2012	Mellon Creative Residencies Program Received funding to host mathematician, dancer, and choreographer Karl Schaffer of De Anza College and the Dr. Schaffer and Mr. Stern Dance Ensemble for a three-week residency exploring the connections between mathematics and dance.	Bryn Mawr College

PUBLICATIONS

- A. Myers (2010), *Rollette*, *PMEJ* **13**, no. 3, 153–158.
- A. Myers (2009), *Forbidden Substrings on Weighted Alphabets*, *Australas. J. Combin.* **45**, 59–66.
- A. Myers (2009), *The List of Grievances and Special Requests*, *Focus* **29**, no. 2, 14–15.
- A. Myers and H. Wilf (2008), *Left-to-Right Maxima in Words and Multiset Permutations*, *Israel J. Math.* **166**, 167–184.
- A. Myers (2007), *Pattern Avoidance in Multisets: Bijective Proof*, *Ann. Comb.* **11**, no. 3–4, 507–517.
- A. Myers and H. Wilf (2006), *Some New Aspects of the Coupon Collector Problem*, *SIREV* **38**, no. 3, 549–565.
- A. Myers and H. Wilf (2003), *Some New Aspects of the Coupon Collector Problem*, *SIAM J. Discrete Math.* **1**, 1–17.
- A. Myers (2002), *Counting Permutations by their Rigid Patterns*, *J. Combin. Theory Ser. A* **99**, 345–357.
- A. Myers (2000), *Basic Interval Orders*, *Order* **16**, 261–275.
- L. Billera and A. Myers (1999), *Shellability of Interval Orders*, *Order* **15**, 113–117.

A. Myers (1994), *Magyar Mathematics*, UME Trends.

PRESENTATIONS

- 2018 *Apollonian Gaskets*, Philadelphia Area Math Teachers Circle.
- 2018 *Liar's Bingo*, Philadelphia Area Math Teachers Circle.
- 2016 *Triangle in a Triangle*, Philadelphia Area Math Teachers Circle.
- 2015 *The Mathematics of the Simplex Lock*, Philadelphia Area Math Teachers Circle.
- 2014 *Coke versus Pepsi*, Philadelphia Area Math Teachers Circle.
- 2013 *Bad Squares on Board Games*, Philadelphia Area Math Teachers Circle.
- 2012 *Are Venn Diagrams Limited to Three or Fewer Sets?*, Philadelphia Area Math Teachers Circle (invited).
- 2010 *Teaching Introductory College Mathematics Courses*, Renyi Institute of Mathematics.
- 2008 *Parents Weekend Lecture*, Bryn Mawr College (invited).
The Outstanding Elements of Permutations and Words, Haverford College (invited).
- 2006 *Pattern Avoidance for Multiset Permutations*, University of Miami (invited).
- 2005 *Bad Squares on Board Games*, Joint Mathematics Meetings.
Bad Squares on Board Games, Budapest Semesters in Mathematics Reunion Conference.
- 2004 *Composition Avoidance and The Coupon Collector Problem*, Iran IASBS (invited).
Composition Avoidance, Bryn Mawr College (invited).
- 2003 *The Coupon Collector Problem*, Gettysburg College (invited).
The Coupon Collector Problem, Swarthmore College (invited).
Bad Squares on Board Games, St. Joseph's University (invited).
- 2002 *Binomial Determinants, Lattice Paths, and Hook Length Formulae*, University of Pennsylvania.
- 2001 *Counting Permutations by their Rigid Patterns*, Association for Women in Mathematics Workshop (invited).
Counting Permutations by their Rigid Patterns, Lehigh University (invited).
Broken Circuit Complexes, University of Pennsylvania.
Counting Permutations by their Rigid Patterns, Vanderbilt University.
- 2000 *Counting Permutations by their Rigid Patterns*, U.S. Naval Academy (invited).

Rigid Patterns, 32nd Annual Congress on Combinatorics, Graph Theory and Computing.

Rigid Patterns, Combinatorialists of New England Conference (invited).

Rigid Patterns, George Washington University (invited).

Basic Interval Orders, Massachusetts Institute of Technology (invited).

Basic Interval Orders, University of Pennsylvania.

1999 *Interval Orders are Shellable*, 31st Annual Congress on Combinatorics, Graph Theory and Computing.

Combinatorial Topology, Dartmouth College.

Topology of Interval Orders, University of Pennsylvania.

1997 *Paper Folding and Prime Numbers*, University of California at Berkeley (invited).