

Evan P. Dummit

Curriculum Vitae

Northeastern University
Department of Mathematics
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Citizenship: United States
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Education

Jun 2009	BS in Mathematics (with honors) , California Institute of Technology
Jun 2009	MS in Mathematics , California Institute of Technology
May 2010	MA in Mathematics , University of Wisconsin-Madison
Aug 2014	PhD in Mathematics , University of Wisconsin-Madison <i>Advisor: Jordan S. Ellenberg</i> <i>Thesis Title: Counting number field extensions of given degree, bounded discriminant, and specified Galois closure</i>

Academic Employment

2023–present	Associate Teaching Professor, Northeastern University
2019–2023	Assistant Teaching Professor, Northeastern University
2017–2019	Postdoctoral Scholar, Arizona State University
2014–2017	Visiting Assistant Professor, University of Rochester
2012–2014	Doctoral Dissertator, University of Wisconsin-Madison
2009–2012	Doctoral Student, University of Wisconsin-Madison

Selected Publications

in prep.	E. Dummit , <i>The ρ-discriminant and applications</i> .
submitted	E. Dummit , <i>Characterizations of the dth-power residue matrices over finite fields</i> .
2019	D. Dummit, E. Dummit , and H. Kisilevsky, <i>Signature ranks of units in cyclotomic extensions of abelian number fields</i> , Pacific J. Math. 298.2:285–298.
2018	E. Dummit , <i>Counting G-extensions by discriminant</i> , Mathematical Research Letters 25.04:1151–1172.
2016	E. Dummit , M. Hablicsek, R. Harron, L. Jain, R. Pollack, and D. Ross, <i>Explicit computations of Hida families via overconvergent modular symbols</i> , Research in Number Theory 2:25.
2016	D. Dummit, E. Dummit , and H. Kisilevsky, <i>A characterization of quadratic, cubic, and quartic residue matrices</i> , Journal of Number Theory 168:167–179.
2013	E. Dummit and M. Hablicsek, <i>Kakeya sets over non-archimedean local rings</i> , Mathematika 59.02:257–266.
2010	E. Dummit , A. Goldberg, and A. Perry, <i>A conjecture of Evans on sums of Kloosterman sums</i> , Proc. of the Amer. Math. Soc. 138:3047–3056.

Selected Research Conferences and Talks

Oct 2020	Representation Theory Seminar, Northeastern (invited talk)
Sep 2020	Quebec-Maine Number Theory Conference, Laval University
Feb 2020	“Pick My Brain” Research Seminar, Northeastern (invited talk)
Sep 2019	Topology Kickoff Mini-Conference, Northeastern
May 2019	University of Vermont Number Theory Seminar (“Un-QVNTS”)
Mar 2019	AMS Joint Central and Western Sectional Meeting, UH-Manoa (special session talk)
Mar 2019	Hawaii Number Theory Conference (HINT), UH-Manoa (invited talk)
Jul 2018	Canadian Number Theory Association Conference, Laval University (contributed talk)
Mar 2018	University of Arizona Number Theory Seminar (invited talk)
Mar 2018	Arizona Winter School (on Iwasawa Theory)
Sep 2017	Arizona State University Number Theory Seminar (invited talk)
Sep 2017	Arizona State University Postdoc Seminar (invited talk)
Jun 2017	Canadian Discrete and Algorithmic Mathematics Conference, Ryerson University
Mar 2017	University of Vermont Mathematics Colloquium (invited talk)
Feb 2017	Quebec-Vermont Number Theory Seminar (invited talk)
Jan 2017	Joint Mathematics Meetings, Atlanta (contributed talk, session chair)
Nov 2016	Fields Medal Symposium (in honor of M. Bhargava), Fields Institute, Toronto
Oct 2016	University of Rochester Number Theory Seminar (invited talk)
Oct 2016	Quebec-Maine Number Theory Conference, Laval University
Sep 2016	Conference in Kummer Classes and Anabelian Geometry, UVM
Aug 2016	CTNT Conference on Elliptic Curves and Modular Forms, UConn
Jun 2016	L -Functions and Arithmetic (“Rubifest”), Harvard University
Apr 2016	Upstate Number Theory Conference, U. of Rochester (contributed talk)
Dec 2015	RTG Workshop in Arithmetic Dynamics, U. of Michigan
Oct 2015	University of Rochester Number Theory Seminar (invited talk)
Aug 2015	Silvermania, Brown University
Apr 2015	Upstate Number Theory Conference, Cornell University (contributed talk)
Dec 2014	University of Rochester Number Theory Seminar (contributed talk)
Nov 2014	CRM Thematic Year Workshop: Counting Arithmetic Objects, U. de Montréal
Oct 2014	Cornell University Number Theory Seminar (invited talk)
Oct 2014	University of Rochester Algebraic Combinatorics Seminar (invited talk)
Oct 2014	Binghamton University Arithmetic Seminar (invited talk)
Sep 2014	University of Rochester Number Theory Seminar (invited talk)
Jun 2014	p -adic Variation in Number Theory (“Glennfest”), Boston University
May 2014	Algebraic Techniques for Combinatorial and Computational Geometry, IPAM
Mar 2014	Arizona Winter School (Project Group: Number Field Asymptotics)
Jan 2014	Joint Mathematics Meetings, Baltimore (contributed talk)
Sep 2013	UW-Madison Graduate Number Theory Seminar (talk given)
May 2013	Atkin Memorial Lecture and Workshop on Cohen-Lenstra Heuristics, UIC
Apr 2013	UW-Madison Graduate Number Theory Seminar (talk given)
Mar 2013	Arizona Winter School (Project Group: Modular Curves at Infinite Level)
Jan 2013	Overconvergent Sage Days, UW-Madison
Nov 2012	Midwest Algebraic Geometry Conference, UW-Madison
Nov 2012	UW-Madison Graduate Number Theory Seminar (talk given)
Oct 2012	Quebec-Maine Number Theory Conference, Laval University (invited talk)
Oct 2012	Midwest Number Theory Conference, UIUC (contributed talk)
Oct 2012	UW-Madison Graduate Number Theory Seminar (talk given)
Mar 2012	Hawaii Conference in Algebraic Number Theory, Arithmetic Geometry, and Modular Forms
Jan 2012	UW-Madison Number Theory Seminar (invited talk)
Oct 2011	Midwest Number Theory Conference, UW-Madison (assistant organizer)
Oct 2011	UW-Madison Graduate Number Theory Seminar (talk given)
Mar 2011	Arizona Winter School (Project Group: Overconvergent Modular Symbols)
Feb 2011	UW-Madison Graduate Number Theory Seminar (talk given)
Dec 2010	UW-Madison Graduate Number Theory Seminar (talk given)
Nov 2010	Midwest Number Theory Conference, University of Michigan
Oct 2010	Midwest Algebraic Geometry Conference, UW-Madison
Jan 2010	UW-Madison Graduate Number Theory Seminar (talk given)
Oct 2009	UW-Madison Graduate Number ² Theory Seminar (talk given)

Teaching Experience

NORTHEASTERN UNIVERSITY (2019–PRESENT)	
Fall 2023	Instructor: Math 7359** (Elliptic Curves and Modular Forms) <i>Enrollment: 12</i>
Fall 2023	Instructor: Math 1365†** (Introduction to Mathematical Reasoning) <i>Enr.: 45 + 41</i>
Summer 2023	Instructor: Math 3543 (Dynamics, Chaos, and Fractals) <i>Enrollment: 20</i> <i>Class 4.90/5 (avg 4.45), Teaching 4.88/5 (avg 4.48), Instructor 5.00/5 (avg 4.48)</i>
Summer 2023	Instructor: Math 2321 (Calculus III for Science and Engineering) <i>Enr.: 35</i> <i>Class 4.86/5 (avg 4.45), Teaching 4.95/5 (avg 4.48), Instructor 5.00/5 (avg 4.48)</i>
Spring 2023	Instructor: Math 4571 (Advanced Linear Algebra) <i>Enrollment: 35</i> <i>Class 4.86/5 (avg 4.46), Teaching 4.86/5 (avg 4.45), Instructor 4.91/5 (avg 4.43)</i>
Spring 2023	Instructor: Math 3527 (Number Theory 1) <i>Enrollment: 48 + 47</i> <i>Class 4.89/5 (avg 4.46), Teaching 4.89/5 (avg 4.45), Instructor 4.92/5 (avg 4.43)</i>
Fall 2022	Instructor: Math 4555 (Complex Variables) <i>Enrollment: 8</i> <i>Class 5.00/5 (avg 4.30), Teaching 5.00/5 (avg 4.34), Instructor 5.00/5 (avg 4.31)</i>
Fall 2022	Instructor: Math 4527 (Number Theory 2) <i>Enrollment: 7</i> <i>Class 5.00/5 (avg 4.30), Teaching 5.00/5 (avg 4.34), Instructor 5.00/5 (avg 4.31)</i>
Fall 2022	Instructor: Math 1365† (Introduction to Mathematical Reasoning), <i>Enr.: 34</i> <i>Class 4.71/5 (avg 4.30), Teaching 4.68/5 (avg 4.34), Instructor 4.75/5 (avg 4.31)</i>
Summer 2022	Instructor: Math 3081 (Introduction to Probability and Statistics) <i>Enr.: 41 + 38</i> <i>Class 4.51/5 (avg 4.51), Teaching 4.71/5 (avg 4.57), Instructor 4.76/5 (avg 4.58)</i>
Spring 2022	Instructor: Math 4571 (Advanced Linear Algebra) <i>Enrollment: 22</i> <i>Class 4.86/5 (avg 4.37), Teaching 4.92/5 (avg 4.42), Instructor 5.00/5 (avg 4.37)</i>
Spring 2022	Instructor: Math 3527 (Number Theory 1) <i>Enrollment: 34 + 33</i> <i>Class 4.79/5 (avg 4.37), Teaching 4.83/5 (avg 4.42), Instructor 4.78/5 (avg 4.37)</i>
Fall 2021	Instructor: Math 7315 (Number Theory in Function Fields) <i>Enrollment: 8</i> <i>Class 4.92/5 (avg 4.35), Teaching 5.00/5 (avg 4.41), Instructor 5.00/5 (avg 4.39)</i>
Fall 2021	Instructor: Math 2331 (Linear Algebra) <i>Enrollment: 19 + 19</i> <i>Class 4.81/5 (avg 4.35), Teaching 4.91/5 (avg 4.41), Instructor 4.96/5 (avg 4.39)</i>
Summer 2021	Instructor: Math 3081* (Introduction to Probability and Statistics) <i>Enr.: 48 + 43</i> <i>Class 4.50/5 (avg 4.50), Teaching 4.75/5 (avg 4.61), Instructor 4.86/5 (avg 4.76)</i>
Spring 2021	Instructor: Math 4527* (Number Theory 2) <i>Enrollment: 10</i> <i>Class 4.75/5 (avg 4.45), Teaching 4.79/5 (avg 4.55), Instructor 4.83/5 (avg 4.57)</i>
Spring 2021	Instructor: Math 2321* (Calculus III for Science and Engineering) <i>Enr.: 34 + 50</i> <i>Class 4.75/5 (avg 4.45), Teaching 4.85/5 (avg 4.55), Instructor 4.91/5 (avg 4.57)</i>
Fall 2020	Instructor: Math 5111* (Algebra I), <i>Enrollment: 9</i> <i>Class 4.95/5 (avg 4.32), Teaching 4.96/5 (avg 4.39), Instructor 4.92/5 (avg 4.39)</i>
Fall 2020	Instructor: Math 2321* (Calculus III for Science and Engineering), <i>Enr.: 19 + 49</i> <i>Class 4.61/5 (avg 4.32), Teaching 4.76/5 (avg 4.39), Instructor 4.92/5 (avg 4.39)</i>
Summer 2020	Instructor: Math 3081* (Introduction to Probability and Statistics) <i>Enr.: 65 + 70</i> <i>Class 4.61/5 (avg 4.47), Teaching 4.72/5 (avg 4.61), Instructor 4.90/5 (avg 4.71)</i>
Spring 2020	Instructor: Math 4571* (Advanced Linear Algebra) <i>Enrollment: 15</i> <i>Class 4.73/5 (avg 4.25), Teaching 4.99/5 (avg 4.37), Instructor 4.92/5 (avg 4.43)</i>
Spring 2020	Instructor: Math 3527* (Number Theory 1) <i>Enrollment: 33 + 25</i> <i>Class 4.72/5 (avg 4.25), Teaching 4.84/5 (avg 4.37), Instructor 4.85/5 (avg 4.43)</i>
Fall 2019	Instructor: Math 5111 ^{note} (Algebra I), <i>Enrollment: 16</i> <i>Class 4.41/5 (avg 4.20), Teaching 4.27/5 (avg 4.33), Instructor 4.00/5 (avg 4.28)</i>
Fall 2019	Instructor: Math 1365 (Introduction to Mathematical Reasoning), <i>Enrollment: 19</i> <i>Class 4.15/5 (avg 4.20), Teaching 4.28/5 (avg 4.33), Instructor 4.20/5 (avg 4.28)</i>
Fall 2019	Instructor: Math 1341 (Calculus 1 for Science and Engineering), <i>Enrollment: 2 × 19</i> <i>Class 4.46/5 (avg 4.20), Teaching 4.62/5 (avg 4.33), Instructor 4.58/5 (avg 4.28)</i>

** Courses taught partially online due to instructor injury.

* Courses taught partially or totally online due to the COVID-19 pandemic.

† Intensive special sections of Math 1365 for CS and Math majors, pilot program for Math 1465.

^{note} Volunteered to be replacement instructor for final month of course, as a result of emergency circumstances.

Teaching Experience (Continued)

ARIZONA STATE UNIVERSITY (2017–2019)	
Summer 2019	Instructor: Math 211 (Mathematics for Business Analysis), <i>Enrollment: 29</i> <i>Course 4.46/5 (avg 4.40), Teaching 4.78/5 (avg 4.46), Instructor 4.77/5 (avg 4.60)</i>
Spring 2019	Instructor: Math 444 (Intermediate Abstract Algebra), <i>Enrollment: 11</i> <i>Course 5.00/5 (avg 4.20), Teaching 4.97/5 (avg 4.26), Instructor 5.00/5 (avg 4.40)</i>
Fall 2018	Instructor: Math 267 (Multivariable Calculus for Engineers), <i>Enrollment: 90</i> <i>Course 4.81/5 (avg 4.20), Teaching 4.81/5 (avg 4.18), Instructor 4.98/5 (avg 4.30)</i>
Fall 2018	Instructor: Math 598 (Number Theory in Function Fields), <i>Enrollment: 5</i>
Spring 2018	Instructor: Math 267 (Multivariable Calculus for Engineers), <i>Enrollment: 68</i> <i>Course 4.63/5 (avg 4.20), Teaching 4.73/5 (avg 4.29), Instructor 4.79/5 (avg 4.40)</i>
Spring 2018	Instructor: Math 441 (Ring Theory), <i>Enrollment: 30</i> <i>Course 4.85/5 (avg 4.20), Teaching 4.87/5 (avg 4.27), Instructor 5.00/5 (avg 4.40)</i>
Fall 2017	Instructor: Math 342 (Linear Algebra), <i>Enrollment: 37</i> <i>Course 4.65/5 (avg 4.10), Teaching 4.71/5 (avg 4.12), Instructor 4.79/5 (avg 4.20)</i>
UNIVERSITY OF ROCHESTER (2014–2017)	
Spring 2017	Instructor: Math 235 (Linear Algebra), <i>Enrollment: 51</i> <i>Assignments 4.86/5 (avg 4.38), Teaching 4.84/5 (avg 4.26), Overall 4.95/5 (avg 4.31)</i>
Spring 2017	Instructor: Math 172 (Honors Calculus II), <i>Enrollment: 27</i> <i>Assignments 4.90/5 (avg 4.69), Teaching 4.79/5 (avg 4.62), Overall 4.87/5 (avg 4.73)</i>
Fall 2016	Instructor: Math 171 (Honors Calculus I), <i>Enrollment: 26</i> <i>Assignments 4.82/5 (avg 4.63), Teaching 4.76/5 (avg 4.42), Overall 4.92/5 (avg 4.62)</i>
Fall 2016	Instructor: Math 141 (Calculus I), <i>Enrollment: 56</i> <i>Assignments 4.58/5 (avg 4.23), Teaching 4.60/5 (avg 3.98), Overall 4.55/5 (avg 3.95)</i>
Spring 2016	Instructor: Math 233 (Mathematical Cryptography), <i>Enrollment: 66</i> <i>Assignments 4.60/5 (avg 4.52), Teaching 4.54/5 (avg 4.41), Overall 4.64/5 (avg 4.41)</i>
Spring 2016	Instructor: Math 165 (Linear Algebra & Differential Equations), <i>Enrollment: 88</i> <i>Assignments 4.51/5 (avg 4.17), Teaching 4.62/5 (avg 3.82), Overall 4.68/5 (avg 3.83)</i>
Fall 2015	Instructor: Math 215 (Chaos, Dynamics, and Fractals), <i>Enrollment: 30</i> <i>Assignments 4.69/5 (avg 4.51), Teaching 4.48/5 (avg 4.33), Overall 4.64/5 (avg 4.35)</i>
Fall 2015	Instructor: Math 164 (Multidimensional Calculus), <i>Enrollment: 61</i> <i>Assignments 4.70/5 (avg 4.15), Teaching 4.72/5 (avg 3.89), Overall 4.73/5 (avg 3.91)</i>
Spring 2015	Instructor: Math 165 (Linear Algebra & Differential Equations), <i>Enrollment: 72</i> <i>Assignments 4.18/5 (avg 4.17), Teaching 4.04/5 (avg 3.82), Overall 4.16/5 (avg 3.83)</i>
Spring 2015	Instructor: Math 143 (Calculus III), <i>Enrollment: 52</i> <i>Assignments 4.51/5 (avg 3.90), Teaching 4.54/5 (avg 3.78), Overall 4.57/5 (avg 3.73)</i>
Fall 2014	Instructor: Math 230 (Number Theory With Applications), <i>Enrollment: 23</i> <i>Assignments 4.94/5 (avg 4.50), Teaching 4.88/5 (avg 4.29), Overall 5.00/5 (avg 4.31)</i>
Fall 2014	Instructor: Math 141 (Calculus I), <i>Enrollment: 45</i> <i>Assignments 4.01/5 (avg 4.23), Teaching 4.05/5 (avg 3.98), Overall 3.93/5 (avg 3.95)</i>
UNIVERSITY OF WISCONSIN-MADISON (2009–2014)	
Summer 2014	Instructor: Summer Enhancement Program in Algebra (Graduate), <i>Enrollment: 16</i>
Spring 2014	Teaching Assistant: Math 240 (Discrete Mathematics), <i>Enrollment: 4 × 24</i> <i>Quality 4.92/5 (avg 4.42), Overall 4.90/5 (avg 4.51), Rating Superior</i>
Fall 2013	Teaching Coordinator: Instructional Excellence Program
Fall 2013	Teaching Assistant: Wisconsin Emerging Scholars Math 221 (Calculus 1), <i>Enr.: 13</i> <i>Quality 5.00/5 (avg 4.10), Overall 4.95/5 (avg 4.32), Rating Superior</i>
Summer 2013	Instructor: Summer Enhancement Program in Algebra (Graduate), <i>Enrollment: 15</i>
Summer 2013	Teaching Assistant: Math 234 (Calculus 3), <i>Enrollment: 16</i>
Spring 2013	Teaching Assistant: Wisconsin Emerging Scholars Math 234 (Calculus 3), <i>Enr.: 9</i> <i>Quality 5.00/5 (avg 4.50), Overall 4.91/5 (avg 4.56), Rating Superior</i>
Spring 2012	Teaching Assistant: Math 320 (Linear Algebra & Differential Equations), <i>Enr.: 4 × 18</i> <i>Quality 4.86/5 (avg 4.53), Overall 4.75/5 (avg 4.56), Rating Superior</i>
Spring 2011	Teaching Assistant: Math 222 (Calculus 2), <i>Enrollment: 2 × 22</i> <i>Quality 4.97/5 (avg 4.50), Overall 4.84/5 (avg 4.43), Rating Superior</i>
Fall 2010	Teaching Assistant: Math 211 (Business Calculus), <i>Enrollment: 2 × 24</i> <i>Quality 4.64/5 (avg 4.37), Overall 4.56/5 (avg 4.47), Rating Satisfactory-Plus</i>
Fall 2009	Teaching Assistant: Math 221 (Calculus 1), <i>Enrollment: 2 × 24</i> <i>Quality 4.67/5 (avg 4.34), Overall 4.49/5 (avg 4.44), Rating Satisfactory-Plus</i>

Additional Teaching Experience

	UNIVERSITY OF WISCONSIN-MADISON (2009–2014)
Fall 2013	Grader: Math 741 (Abstract Algebra 1)
Spring 2013	Grader: Math 742 (Abstract Algebra 2)
Fall 2012	Grader: Math 741 (Abstract Algebra 1)
Spring 2012	Grader: Math 542 (Modern Algebra 2)
Fall 2011	Grader: Math 541 (Modern Algebra 1)
Spring 2011	Grader: Math 441 (Introduction to Groups and Rings)
Fall 2010	Grader: Math 541 (Modern Algebra 1)
Spring 2010	Grader: Math 541 (Modern Algebra 1)

Research Appointments

	UNIVERSITY OF WISCONSIN-MADISON (2009–2014)
Fall 2012	Research Assistant
Fall 2011	Research Assistant
Summer 2010	VIGRE Fellow
Spring 2010	VIGRE Fellow

Course Development

Fall 2024	(pending) Math 1465, Northeastern University (Intensive Mathematical Reasoning), new course
Fall 2024	(pending) Math 1800, Northeastern University (Mathematical Problem Solving), new course
Fall 2024	(pending) Math 7000, Northeastern University (Graduate Instructor Training), new course
Fall 2023	Math 7359, Northeastern University (Elliptic Curves and Modular Forms), new course
Summer 2023	Math 3543, Northeastern University (Dynamics, Chaos, and Fractals), new course
Fall 2021	Math 7315, Northeastern University (Algebraic Number Theory), redesigned course
Fall 2020	Math 5111, Northeastern University (Algebra I), standardized curriculum
Spring 2020	Math 4571, Northeastern University (Advanced Linear Algebra), reactivated course
Fall 2018	Math 598, Arizona State University (Number Theory in Function Fields), new course

Professional Development

2021–present	Mentor, Mathematics Graduate Mentoring Program, Northeastern University
2020–present	First-Year Math TA Training coordinator, Northeastern University
Nov 2022	Participant, STRIDE II Training Session, Northeastern University
Nov 2022	Graduate and Postdoc Applications Mentoring panelist, Northeastern University
Oct 2022	Participant, NU-SCI Inclusive Teaching Workshop, Northeastern University
Oct 2022	Participant, STRIDE I Training Session, Northeastern University
Dec 2021	Postdoc and Teaching Faculty panelist, Northeastern University
Oct 2021	Presenter (with T. Iarrobino), ParaDIGMS Lightning Talks Session
Aug 2018	Teaching Assistant Seminar panelist, Arizona State University
Aug 2017	Teaching Assistant Seminar panelist, Arizona State University
Spring 2017	Mathematics Department Teaching Seminar, University of Rochester
Fall 2016	Mathematics Department Teaching Seminar, University of Rochester
Fall 2015	CIRTL MOOC in Evidence-Based STEM Teaching, Learning Community Member
Spring 2015	CETL College Course Development Fellow (MTH 143), University of Rochester
Fall 2014	CETL College Course Development Fellow (MTH 230), University of Rochester
Fall 2013	Wisconsin Emerging Scholars Teaching Assistant, Math 221, UW-Madison
Spring 2013	Wisconsin Emerging Scholars Teaching Assistant, Math 234, UW-Madison

Internal Service

2023–present	Mathematics Department Awards Committee, chair
2022–present	Northeastern Undergraduate Math Competition Club (NUMC), faculty sponsor
2022–present	Northeastern Mathematics Club, faculty sponsor
2022–present	Northeastern Integration Bee, founder and organizer
2021–present	Northeastern Putnam Competition Site Coordinator
2021–present	Mathematics Department First-Year TA Training Committee, chair
2020–present	Mathematics Department First-Year TA Training Committee
2019–present	Northeastern Putnam Club, Co-Organizer
2019–present	Mathematics Department Teaching Committee, Northeastern
2019–present	Mathematics Department Diversity and Inclusion Committee, Northeastern
2019–present	Mathematics Department Advanced Curriculum Committee, Northeastern
Fall 2022	Mathematics Hiring Committee for Bridge to Calculus Director, Northeastern
Spring 2022	Mathematics Algebra 1 Qualifying Exam Writer and Grader
Fall 2021	Math 2331 (Linear Algebra), course coordinator
Spring 2021	Mathematics Algebra 1 Qualifying Exam Writer and Grader
2019–2020	Bridge to Calculus Committee, Northeastern

Selected Outreach Lectures

Sep 2023	Northeastern Math Club (featured speaker)
Nov 2022	Northeastern Math Club (featured speaker)
Feb 2022	Northeastern Math Club (featured speaker)
Jul 2020	Honors Summer Math Camp, Texas State University-San Marcos (featured speaker)
Apr 2020	Joyful Math Jamboree (featured speaker)
Feb 2020	Northeastern Math Club (featured speaker)
Apr 2019	ASU Undergraduate Math Club (featured speaker)
Mar 2019	ASU High School Math Circle (featured speaker)
Feb 2019	ASU High School Math Circle (featured speaker)
Oct 2018	ASU High School Math Circle (featured speaker)
May 2018	University of Vermont Math Day (featured speaker)
Jan 2018	ASU High School Math Circle (featured speaker)
Nov 2017	ASU High School Math Circle (featured speaker)
Sep 2017	ASU High School Math Circle (featured speaker)
Mar 2017	University of Rochester Polynomial Method Seminar (guest lecture)
May 2016	Irondequoit HS Mathematics at Rochester (featured speaker)
Apr 2016	University of Rochester Freshman Fellows “Food For Thought” (featured speaker)
Feb 2016	Society of Undergraduate Mathematics Students, U. of Rochester (invited lecture)
Nov 2014	University of Vermont Putnam Seminar (leader)

External Outreach and Service

2022–present	BC Calculus Competition Coordinator, Calculus Field Day at Northeastern
2022–present	Grader, USA Mathematical Olympiad
2021–present	Volunteer, Calculus Field Day at Northeastern
2021–present	Grader, William Lowell Putnam Mathematical Competition
2016–present	Reviewer, Mathematical Reviews (MathSciNet)
2013–present	Problems Committee Chair, Vermont Math Talent Search
2011–present	Coach, Vermont Mathematics All-Stars (ARML)
2008–present	Problem Author, Vermont Math Talent Search
2007–present	Problem Author, University of Vermont High School Prize Exam in Mathematics
2020–2021	National Question Writing Committee Chair, MATHCOUNTS
2017–2021	National Question Writing Committee Member, MATHCOUNTS
2017–2018	Volunteer Assistant and Poster Judge, ASU Cryptorally
Feb 2017	Co-organizer, University of Rochester Math Olympiad
2012–2013	Problem Author, Mathleague.org

Research Interests

General	Algebraic number theory, algebraic combinatorics, arithmetic algebraic geometry, arithmetic dynamics.
Specific	Arithmetic statistics of number fields, algebraic combinatorics in finite fields and local rings, arithmetic in number fields and function fields, geometry of numbers, overconvergent modular symbols, competition/recreational mathematics.

Honors, Awards, Fellowships

Apr 2023	CONNECTS Award, Northeastern College of Science
2021	Outstanding Teacher of First-Year Engineering Students Award, Northeastern College of Engineering
2014	CETL College Course Development Fellowship, University of Rochester
2014	Graduate Teaching Award in Mathematics, University of Wisconsin-Madison
2010	VIGRE Fellowship Award, University of Wisconsin-Madison
2009	NSF Graduate Research Fellowship Program, Honorable Mention
2008	Herbert J. Ryser Award, California Institute of Technology
2008	William Lowell Putnam Competition, Honorable Mention (score 67, rank 51.5)
2007	William Lowell Putnam Competition, Honorable Mention (score 58, rank 39)
2005	USA Mathematical Olympiad, Honorable Mention

Undergraduate and Graduate Supervision

Spring 2023	Faculty Supervisor, Math 7978 (Independent Study, 1×1 cr)
Spring 2023	Faculty Supervisor, Math 7734 (Readings in Algebra, 2×4 cr)
Spring 2023	Faculty Consultant, Math 4020 (Research Capstone)
Fall 2022	Faculty Consultant, Math 4020 (Research Capstone)
Fall 2022	Faculty Supervisor, Math 7978 (Independent Study, 1×2 cr)
Spring 2022	Faculty Consultant, Math 4020 (Research Capstone)
Spring 2020	Faculty Supervisor, Math 7734 (Readings in Algebra, 1×4 cr)
Fall 2020	Faculty Consultant, Math 4020 (Research Capstone)
Fall 2019	Faculty Supervisor, Math 7734 (Readings in Algebra, 1×4 cr)
Fall 2018	Faculty Supervisor, Honors Enrichment Contract for MAT 267 (Calculus III)
Spring 2018	Faculty Supervisor, Honors Enrichment Contract for MAT 441 (Ring Theory)
Spring 2018	Faculty Supervisor, Honors Enrichment Contracts (4) for MAT 267 (Calculus III)
Fall 2017	Faculty Supervisor, Honors Enrichment Contract for MAT 342 (Linear Algebra)
Summer 2017	Co-organizer, REU on Applications of the Polynomial Method to Data Science, University of Rochester
Spring 2016	Supervisor, Math 391W (Independent Study: Mathematical Writing)

Languages

English	Native Speaker
French	Fluent (reading)
Latin	Excellent
Programming	Mathematica, Sage, Magma, Java, Python, LaTeX, LyX, WeBWorK

Other

2009–2014	Member, American Mathematical Society
Summer 2009	Student Researcher, UW-Madison REU in Number Theory
2007–2009	Coaches' Choice Moderator, Caltech Quiz Bowl
2006–2009	Ruddock House Waiter, California Institute of Technology
Summer 2008	Counselor, Program in Mathematics for Young Scientists (PROMYS)
2001–2005	Certified SCUBA diver (NAUI)