

Nicholas A. Scoville

Curriculum Vitae

101K Pfahler
Ursinus College
Collegeville, PA

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POSITIONS HELD

Ursinus College

Joseph Beardwood III Chair of Mathematics
Associate Professor
Chair of Mathematics and Computer Science
Assistant Professor

Fall 2017-present
2016-present
2016-present
2010-2016

Faulkner University

Adjunct Professor

2015

EDUCATION

Dartmouth College

Ph.D., Mathematics
Masters of Arts, Mathematics

June 2010
June 2007

Western Michigan University

Masters of Science, Mathematics
Bachelors of Science, Mathematics

June 2005
August 2003

Grand Rapids Community College

Associates, Architectural Drafting

May 2001

TEACHING EXPERIENCE

Ursinus College,

Math 335: Abstract Algebra
Math 491: Algebraic Topology
Math 451: Discrete Morse Theory
Math 361: Graph Theory
CIE 100: Common Intellectual Experience
Math 421: Topology
Math 211: Multivariable calculus
Math 235: Linear Algebra
Math 10: Problem Solving
Math 322: Geometry
Math 341: Probability
Math 236W: Discrete Mathematics
Stat 141Q: Statistics I
Math 111: Calculus I
Math 112: Calculus II

Adjunct Professor, Faulkner University

Math 1312: Mathematics Spring 2015

Other teaching experience,

<i>Teaching Assistant: Dartmouth College</i>	Summer 2009
<i>Instructor: Dartmouth College</i>	2007-2009
<i>Teaching Assistant: Dartmouth College</i>	2005-2007
<i>Instructor: Western Michigan University</i>	2003-2005
<i>Undergraduate Teaching Assistant: Western Michigan University</i>	2002-2003

INDEPENDENT STUDIES

Ursinus College,

Discrete Morse theory and knots, Connor Donovan	Spring 2021
Discrete Morse theory, Elvi Sopiqoti	Spring 2020
Discrete plates and Olives, Matthew Furgele	Spring 2020
Analyzing heart data, Ben Minardi	Spring 2019
Algebraic topology, Nick Tulio	Spring 2019
Strong collapsibility and the Morse complex, Max Lin	Spring 2019
Group of strong self-homotopy equivalences, Vince Sergi, Ryan Quick	Spring 2019
Boolean functions, Ryan Quick	Fall 2018
Algebraic topology, Jason Bennett	Fall 2018
Generating Discrete Morse Functions from Point Data, Ashlyn Welch	Spring 2018
Random discrete Morse theory, Nikolai Peralta	Spring 2018
Homotopy theory, Karthik Yegnesh	Fall 2016 Spring 2017, Fall 2017, Spring 2018
Topology, Ian Rand	Spring 2017
Discrete Morse theory and Persistent homology, Yuqing Liu	Spring 2017
Random discrete Morse theory, Nikolai Peralta, Chase Babrich	Fall 2016, Spring 2017
Algebraic topology, Matan Peleg	Fall 2016, Spring 2017
Category theory, Michael Vennettilli	Spring 2015
Multiplication in discrete Morse theory, Rose Blanchard	Spring 2015
Number theoretic notions in discrete Morse theory, Ian Rand	Spring 2015

Discrete Morse theory, Tyler Helms	Fall 2014
Estimating the discrete LS category, Brian Green	Fall 2013
Homology and Cohomology, Seth Aaronson, Brian Green, Michelle Tanco	Spring 2013
Discrete LS category, Seth Aaronson	Spring 2013
Counting discrete Morse functions, Seth Aaronson	Spring 2012
Lie Groups, Brian Green	Spring 2012
Discrete Morse Theory, Mike Agiorgousis	Spring 2012
Markov Chains, Jayant Velagala	Spring 2012
Probability, Jayant Velagala	Fall 2011
Knot Theory, Will Molden	Fall 2011
Discrete Morse Theory, Seth Aaronson	Spring 2011

STUDENT POSTERS AND PRESENTATIONS

Benjamin Johnson “ <i>Merge trees in discrete Morse theory</i> , Mathfest, Cincinnati, Ohio	August 2019
Yuqing Liu “ <i>Persistence equivalence of discrete Morse functions on trees</i> , Mathfest, Denver, Colorado	August 2018
Karthik Yegnesh “ <i>Families of Objects in Categories and Elementary Topoi</i> , AMS/MAA Joint Math Meetings, Atlanta, Georgia	January 2017
Karthik Yegnesh <i>Cosheaf theoretical constructions in networks and persistent homology</i> , 68 th annual Delaware Valley Science Fair, Oaks, Pennsylvania (won “first place” in Mathematics)	March 2016
Karthik Yegnesh <i>Cosheaf theoretical constructions in networks and persistent homology</i> , 59 th annual Montgomery County Science Research Competition, Collegeville, Pennsylvania (won “first place” in math category)	March 2016
Matt Belle <i>Arboricity</i> , AMS/MAA Joint Math Meetings, Baltimore, Maryland	January 2014
Brian Green <i>Estimating the discrete Lusternik–Schnirelmann category</i> , AMS/MAA Joint Math Meetings, Baltimore, Maryland	January 2014
Seth Aaronson <i>Lusternik–Schnirelmann category for cell complexes</i> , AMS/MAA Joint Math Meetings, San Diego, California	January 2013
Mike Agiorgousis, Brian Green, and Alex Onderdonk <i>Discrete Morse Functions and Homology</i> , AMS/MAA Joint Math Meetings, San Diego, California (won “Outstanding Presentation” award)	January 2013
Mike Agiorgousis, Brian Green, and Alex Onderdonk <i>Discrete Morse Functions and Homology</i> , Undergraduate Science Research Symposium, Haverford College	September 2012
Mike Agiorgousis, Brian Green, and Alex Onderdonk <i>Discrete Morse Functions and Homology</i> , Mathfest, Madison, Wisconsin	August 2012
Mike Agiorgousis, Brian Green, Alex Onderdonk, and Kim Rich <i>Discrete Morse Functions and Homology</i> , <i>Disappearing Boundaries Summer Research Meeting, Lebanon Valley College</i>	July 2012

Seth Aaronson and Marie Meyer, “*Graph Isomorphisms in Discrete Morse Theory*”, *AMS/MAA Joint Meetings, Boston, MA* January 2012

PUBLICATIONS

Benjamin Johnson and Nicholas A. Scoville, “Merge trees in discrete Morse theory,” *submitted*

Nicholas A. Scoville and Matthew C. B. Zaremsky, “Higher connectivity of the Morse complex,” *submitted*

Desamparados Fernandez-Ternero, Enrique Macias-Virgos, David Mosquera-Lois, Nicholas A. Scoville, and Jose-Antonio Vilches, “Fundamental Theorems of Morse theory on posets,” *submitted*

Gregory Lupton, John Oprea, and Nicholas A. Scoville, “The digital Hopf construction,” *submitted*

Gregory Lupton and Nicholas A. Scoville, “Digital Fundamental Groups and Edge Groups of Clique Complexes,” *submitted*

Maxwell Lin and Nicholas A. Scoville, “Strong collapses of the Morse complex,” *submitted*

Gregory Lupton, John Oprea, and Nicholas A. Scoville, “Subdivision of Maps of Digital Images,” *submitted*

Gregory Lupton, John Oprea, and Nicholas A. Scoville, “Homotopy Theory in Digital Topology,” *submitted*

Maxwell Lin and Nicholas A. Scoville, “On the automorphism group of the Morse complex,” *submitted*

Dominic Klyve and Nicholas A. Scoville, “Summation graphs and discrete Morse theory,” *submitted*

Gregory Lupton, John Oprea, and Nicholas A. Scoville, “A Fundamental Group for Digital Images,” *Journal of Applied and Computational Topology*, (to appear)

Nicholas A. Scoville, “Topology from Analysis: A Mini-Primary Source Project for Topology Students,” *Convergence* (June 2020)

Desamparados Fernandez-Ternero, Enrique Macias-Virgos, Nicholas A. Scoville, and Jose-Antonio Vilches, “Strong discrete Morse theory and simplicial LusternikSchnirelmann category: A discrete version of the Lusternik-Schnirelmann Theorem,” *Discrete and Computational Geometry*, 63 (2020), no. 3, 607623.

Ian Rand and Nicholas A. Scoville, “Discrete Morse functions, vector fields, and homological sequences on trees,” *Involve, A Journal of Mathematics* Involve, a Journal of Mathematics 13-2 (2020), 219–229. DOI 10.2140/involve.2020.13.219

Yuqing Liu and Nicholas A. Scoville, “The realization problem for discrete Morse functions on trees,” *Algebra Colloquium*, 27 : 3 (2020) 455–468 DOI: 10.1142/S1005386720000371

Nicholas A. Scoville, “The Cantor Set Before Cantor: A Mini-Primary Source Project for Analysis and Topology Students,” *Convergence* (May 2019)

Mike Agiorgousis, Brian Green, Alex Onderdonk, Nicholas A. Scoville, and Kim Rich, “Homological sequences in discrete Morse theory,” *Topology Proceedings*, 54 (2019) 283–294

Colin Adams, Allison Henrich, Kate Kearney and Nicholas A. Scoville, “Knots Related by Knotoids,” *American Mathematical Monthly* Volume 126, 2019 - Issue 6, 483–490

Nicholas A. Scoville and Karthik Yegnesh “A Persistent Homological Analysis of Network Data Flow Malfunctions,” *Journal of Complex Networks*, Issue 6, 1 December 2017, Pages 884-892

Nicholas A. Scoville, “Connecting Connectedness: A Mini-Primary Source Project for Topology Students,” *Convergence* (October 2017)

Nicholas A. Scoville and Willie Swei “On the Lusternik–Schnirelmann category of a simplicial map,” *Topology and its applications* 216 (2017), 116-128

Brian Green, Nicholas A. Scoville, and Mimi Tsuruga, “Estimating the discrete Lusternik–Schnirelmann category,” *Topological Methods in Nonlinear Analysis*, 45, No. 1 (2015), 103–116

Akshaye Dhawan, Michelle Tanco, and Nicholas A. Scoville, “A Distributed Greedy Algorithm for Constructing Connected Dominating Sets in Wireless Sensor Networks,” *SENSORNETS*, Lisbon, Portugal January 2014

Nicholas A. Scoville, “Metric Structures for CW Complexes,” *Topology Proceedings*, 44 (2014) 117–131

Seth Aaronson, Marie Meyer, Nicholas A. Scoville, Mitchell T. Smith, and Laura Stibich, “Graph Isomorphisms in discrete Morse theory,” *AKCE Int. J. Graphs Comb.*, 11, No. 2 (2014), 163–176

Seth Aaronson and Nicholas A. Scoville, “Lusternik–Schnirelmann category for cell complexes,” *Illinois J. of Mathematics*, 57, No. 3 (2013), 743–753

Nicholas A. Scoville, “Georg Cantor at the Dawn of Point-Set Topology,” *Loci*, (March 2012), DOI: 10.4169/loci003861

Nicholas A. Scoville, “Lusternik–Schnirelmann Category and the Connectivity of X ,” *Algebraic & Geometric Topology*, 12 (2012) 435-448

Nicholas A. Scoville, “Mapping Cone Sequences and a Generalized Notion of Cone Length,” *JP Journal of Geo. and Top.*, 11(2011), Issue 3, 209-233

Nicholas A. Scoville, “A Metric for Homotopy Types,” Ph.D. Thesis, Dartmouth College, Spring 2010

Rob Nendorf, Nicholas A. Scoville, Jeff Strom, “Categorical Sequences,” *Algebraic & Geometric Topology*, 6 (2006) 809–838

BOOKS

Discrete Morse theory, AMS/MAA Press, 2019

BOOK CHAPTERS

Nicholas A. Scoville, “Sometimes when your hopes have all been shattered,” *Living Proof: Stories of resilience along the mathematical journey*, Edited by Henrich et al., AMS/MAA Press, 2019

BOOK REVIEWS

Nicholas A. Scoville, “Never a dull moment: Hassler Whitney, Mathematics Pioneer” by Keith Kendig, *The American Mathematical Monthly* Volume 126, 2019 - Issue 9

PRESENTATIONS

<i>Higher connectivity of the Morse complex</i>	January, 2021
Virtual AMS/MAA Joint Meetings (invited talk)	
<i>Discrete Morse theory as an introduction to topology</i>	March, 2020
Juniata College math colloquium (invited talk)	
<i>Towards a new digital homotopy theory</i>	February, 2020
University of Albany Geometry/Topology seminar (invited talk)	
<i>Digital topology: A smooth introduction</i>	November, 2019
Westminster College, Fulton Missouri (invited talk)	
<i>Towards a new digital homotopy theory</i>	November, 2019
University of Missouri Geometry/Topology seminar (invited talk)	
<i>Strong discrete Morse theory and an application to simplicial Lusternik–Schnirelmann category</i>	November, 2019
Topological Complexity and Related topics, AMS Southeastern Sectional Meeting, University of Florida (invited talk)	
<i>On the automorphism group of the Morse complex</i>	November, 2019
General Contributed Paper Session, AMS Southeastern Sectional Meeting, University of Florida	
<i>A new digital homotopy theory</i>	June, 2019
Lehigh Geometry/Topology Conference	
<i>Towards a new digital homotopy theory</i>	May, 2019
Lehigh University Algebraic Topology seminar (invited talk)	
<i>Build your own topology</i>	January, 2019

General Contributed Paper Session on Research in Topology, Joint Math Meetings, Baltimore	
<i>Digital Topology: A smooth introduction</i>	October, 2018
Western Michigan University (invited talk)	
<i>Strong discrete Morse theory</i>	July, 2018
ICART 2018, Rabat Morocco	
<i>Digital Topology: A smooth introduction</i>	March, 2018
Colloquium, Elon University (invited talk)	
S^1 and S^2 and S^3 , oh fy! A digital Hopf fibration	January, 2018
Math Colloquium, Montana State University (invited talk)	
S^1 and S^2 and S^3 , oh fy! A digital Hopf fibration	November, 2017
Colloquium, Catholic University of America (invited talk)	
<i>Digital Topology: A smooth introduction</i>	November, 2017
Colloquium, Bard College (invited talk)	
S^1 and S^2 and S^3 , oh fy! A digital Hopf fibration	November, 2017
Colloquium, Dartmouth College (invited talk)	
<i>Digital Topology: A smooth introduction</i>	October, 2017
Colloquium, Seattle University (invited talk)	
<i>Digital Topology: A smooth introduction</i>	October, 2017
Colloquium, Central Washington University (invited talk)	
<i>Simplicial Lusternik–Schnirelmann category and strong discrete Morse theory</i>	October, 2017
Topology Seminar, University of Florida (invited talk)	
S^1 and S^2 and S^3 , oh fy! A digital Hopf fibration	October, 2017
Colloquium, University of Florida Colloquium (invited talk)	
<i>Digital Topology: A smooth introduction</i>	September, 2017
Math Club, Cleveland State University (invited talk)	
<i>A Persistent Homological Analysis of Network Data Flow Malfunctions</i>	August, 2017
Applied Algebraic Topology in Sapporo, Sapporo Japan	
<i>A Persistent Homological Analysis of Network Data Flow Malfunctions</i>	June, 2017
Applied Topology in Bedlewo, Bedlwo Poland	
<i>A Simplicial Lusternik–Schnirelmann Theorem (poster)</i>	June, 2017
Topological Data Analysis: Theory and Applications, Macalester College	
<i>Towards a new digital homotopy theory</i>	April 2017
Colloquium, Cleveland State University (invited talk)	
<i>Collaborative Research: Transforming Instruction in Undergraduate Mathematics via Primary Historical (TRIUMPHS)</i>	January, 2017
MAA Invited Paper Session on Research in Improving Undergraduate Mathematical Sciences Education Program, AMS/MAA Joint Meetings, Atlanta (invited talk)	
<i>(Strong) discrete Morse theory as an introduction to topology</i>	September, 2016
Colloquium, Butler University (invited talk)	

<i>Georg Cantor at the dawn of point-set topology</i> Butler University (invited talk)	September, 2016
<i>A Simplicial Lusternik–Schnirelmann Theorem (poster)</i> ATMCS 7, Torino Italy	July, 2016
<i>The Cantor Set before Cantor</i> AMS/MAA Joint Meetings, Seattle Washington	January, 2016
<i>Discrete Morse theory as an introduction to Topology</i> Colloquium, University of Sevilla (invited talk)	December 2015
<i>Graph isomorphisms in discrete Morse theory</i> Colloquium, Lehigh University (invited talk)	October, 2015
<i>Estimating the discrete Lusternik–Schnirelmann category</i> Homology: Theoretical and Computational Aspects, Genoa, Italy	February, 2015
<i>Discrete Morse theory at the service of Number Theory</i> MAA General Contributed Paper Session on Research in Topology, AMS/MAA Joint Meetings, San Antonio	January, 2015
<i>Graph isomorphisms in discrete Morse theory</i> Colloquium, Seattle University (invited talk)	October, 2014
<i>Lusternik–Schnirelmann category, categorical sequences, and rational numbers</i> Topology seminar, University of Michigan (invited talk)	September, 2014
<i>Topology and its history- must there be a separation?</i> Pohle Colloquium, Adelphi University (invited talk)	May, 2014
<i>Lusternik–Schnirelmann category, categorical sequences, and rational numbers</i> Geometry/Topology seminar, University of Pennsylvania (invited talk)	February, 2014
<i>Topology and its history- must there be a separation?</i> PASHoM Seminar, Villanova University (invited talk)	January, 2014
<i>Graph isomorphisms via discrete Morse theory</i> AMS Special Session on Trends in Graph Theory, AMS/MAA Joint Meetings, Baltimore	January, 2014
<i>Topology and its history are connected under the classroom topology</i> Special Session on History of Mathematics and Its Use in Teaching, AMS Southeastern Sectional meeting, University of Louisville (invited talk)	October, 2013
<i>Computing the Discrete Lusternik–Schnirelmann category of a simplicial complex</i> Applied Topology in Bedlewo, Bedlewo, Poland	July, 2013
<i>Discrete Lusternik–Schnirelmann category</i> General Contributed Paper Session, AMS Southeastern Sectional Meeting, Tulane University	October, 2012
<i>Discrete Morse theory and the homology of simplicial complexes</i> General Contributed Paper Session, Mathfest, Madison	August, 2012
<i>Fun with Pi</i> Pi Day Celebration, Ursinus College	March, 2012
<i>Lusternik–Schnirelmann Category and the Connectivity of X</i> Research in Algebra and Topology, AMS/MAA Joint Meetings, Boston	January, 2012

<i>Graph Isomorphisms in Discrete Morse Theory</i> Colloquium, Saint Joseph's University (invited talk)	November, 2011
<i>Graph Isomorphisms in Discrete Morse Theory</i> Colloquium, Swarthmore College(invited talk)	October, 2011
<i>Graph Isomorphisms in Discrete Morse Theory</i> Colloquium, Gettysburg College (invited talk)	September, 2011
<i>Discrete Morse Functions on Graphs</i> Pure Mathematics Session, Mathfest, Lexington	August, 2011
<i>The Advent of Point-Set Topology</i> General Topology Session, AMS/MAA Joint Meetings, New Orleans	January, 2011
<i>Pick's Theorem: How to compute the area of a polygon</i> ϵ -talk Seminar, Ursinus College	October, 2010
<i>Rethinking the way we teach Point-Set Topology</i> The History of Mathematics and Its Uses in the Classroom, Mathfest, Pittsburgh	August 2010
<i>Irrational Numbers</i> Colloquium, St. Mary's University (invited talk)	February 2010
<i>2 Equations Attributed to Euler</i> Colloquium, Mount Saint Mary's College (invited talk)	February 2010
<i>What makes Topological Spaces different?</i> Colloquium, Ursinus College (invited talk)	January 2010
<i>A Metric for Homotopy Types</i> Geometry/Topology Session III, AMS/MAA Joint Meetings, San Francisco	January 2010
<i>Generalized Cone and Killing Lengths</i> Graduate Student Seminar, Dartmouth College	November 2008
<i>Hopf Invariants and the Reduced Diagonal</i> Topology Seminar, Western Michigan University	April 2004
<i>Something About the Quartic</i> History of Math Seminar, Western Michigan University	February 2004
<i>Diophantine Equations</i> Student Seminar, Western Michigan University	February 2004
<i>Beginning Invariant Theory and the Fundamental Theorem of Symmetric Polynomials</i> Algebra Seminar, Western Michigan University	January 2004
<i>Two Special Cases of Ganea's Conjecture</i> Topology Seminar, Western Michigan University	December 2003
<i>Applications of Groebner Bases and Elimination Theory</i> Algebra Seminar, Western Michigan University	November 2003
<i>Category-Type Invariants of Maps</i> Topology Seminar, Western Michigan University	November 2003
<i>Hardy, Littlewood, and Ramanujan-the REAL Triple Threat!</i> History of Math Seminar, Western Michigan University	September 2003

WORKSHOPS RUN

<i>MAA Workshop: Teaching Undergraduate Mathematics via Primary Source Projects.</i>	January, 2020
AMS/MAA Joint Math Meetings, Denver Colorado	
<i>TRIUMPHS Graduate student training Workshop</i>	July 19-20, 2019
New Mexico State University	
<i>TRIUMPHS Training Workshop</i>	September 13-15, 2018
University of Colorado Denver	
<i>Teaching Undergraduate Mathematics via Primary Source Projects</i>	January 2018
AMS/MAA Joint Math Meetings, San Diego CA	
<i>Teaching Mathematics with Primary Historical Sources</i>	April 1, 2017
MAA EPADEL sectional meeting, Kutztown PA	
<i>TRIUMPHS Training Workshop</i>	September 8-10, 2016
University of Colorado Denver	
<i>Connecting Past to Present: An approach to teaching topology via original resources</i>	July, 2016
HPM 2016, Montpellier France	

PROFESSIONAL AFFILIATIONS

<i>Council on Undergraduate Research</i>	2013-2017
<i>History of Mathematics Special Interest Group of the Mathematical Association of America (HOMSIGMAA)</i>	2012-Present
<i>Association of Christians in the Mathematical Sciences</i>	2011-Present
<i>Mathematical Association of America</i>	2009-Present
<i>American Mathematical Society</i>	2005-Present
<i>Pi Mu Epsilon Mathematics Honors Society</i>	Fall 2002-Spring 2005

HONORS AND AWARDS

Paul R. Halmos-Lester R. Ford Award for article of expository excellence published in The American Mathematical Monthly	August 2020
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**REU SITE: Exploration and Professional
Excellence in the Mathematical Sciences**
NSF Grant 1851948 (April 2020- March 2023)

\$225,469

Western Michigan University Department of Mathematics Alumni Achievement Award	October 2018
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Collaborative Research: RUI: Transforming Instruction in Undergraduate Mathematics via Primary History Sources NSF IUSE Grant 1524065 (Aug. 2015- Sept. 2020) PIs at Colorado State, Central Washington, NMSU, Xavier, U Colorado, Denver, U Florida	\$71,002
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Best oral presentation at HTCA conference in Genoa, Italy sponsored by Gruppo Italiano Ricercatori in Pattern Recognition.	February 2015
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Mellon travel grant	July 2013
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Mellon travel grant	May 2012
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Project NExT Fellow	Aug. 2010 – Aug. 2011
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ADDITIONAL SKILLS

Mathematical Software: LATEX, MATLAB, Maple, BlackBoard, WeBWork, HTML, Minitab, Derive, Java.

MATHEMATICAL ACTIVITIES

Served on virtual panel “Teaching and the Liberal Arts”

University of Tennessee, Knoxville	April 2020
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Referee for several journals (available upon request)	2013-present
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Member of NSF's College of Reviewers for Undergraduate Education	2018-2021
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Scientific Committee, ESU8, Oslo Norway	July 2018
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Scientific Committee, ICART 2018, Rabat Morocco	July 2018
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Organized Special Session “AMS Special Session on Open & Accessible Problems for Undergraduate Research, ” with Allison Henrich and Michael Dorff at AMS/MAA Joint Math Meetings	January 2018
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Focus Magazine, editorial board	November 2017-present
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Served on NSF panel review	2016, 2017, 2018
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Served on MAA Basic Library List Committee	January 2017-January 2020
Organized Special Session “AMS Special Session on Open & Accessible Problems for Undergraduate Research, ” with Allison Henrich and Michael Dorff at AMS/MAA Joint Math Meetings	January 2017
Served on panel “The Research and Teaching Pendulum: January 2017 Finding a Stable Equilibrium” at AMS/MAA Joint Math Meetings	January 2017
Organized Special Session “Applied and Computational Topology, ” with Matthew Wright and Paweł Dłotko at AMS/MAA Joint Math Meetings	January 2016
Organized panel “Finding a thesis topic and advisor, ” at AMS/MAA Joint Math Meetings	January 2016
Reviewed applications for Posters on the Hill	Fall 2015
Reviewer for MathSciNet Mathematical Reviews	February 2015-present
Organized panel “Graduate school: Choosing one, getting in, staying in, ” at AMS/MAA Joint Math Meetings	January 2015
Reviewed applications for Posters on the Hill	Fall 2014
Book reviewer for online MAA book reviews	2014-Present
Faculty representative for Ursinus MAA student chapter	2014-Present
CUR Councilor in the Mathematics and Computer Sciences Division	2014-Present
Served on panel “You published your dissertation: now what?” at AMS/MAA Joint Math Meetings	January 2013
Organized panel “The on-campus interview survival guide” at AMS/MAA Joint Math Meetings	January 2013
Reviewer for mathematical publication database Zentralblatt	August 2012-present
Senior Personal, Ursinus College REU (NSF Grant No. DMS-1003972)	June 2012-August 2012

Organized Panel “Hit the Ground Running! Interview like a Pro and land the job” at AMS/MAA Joint Math Meetings	January 2012
Senior Personal, Ursinus College REU (NSF Grant No. DMS-1003972)	June 2011-August 2011
Judge for MAA Student Paper Session 3, MathFest	August 2011
Judge of research abstracts for Young Mathematicians Network Conference applicants	July 2011
Judge for MAA Student Poster Session, Joint Mathematics Meetings	January 2011
Calculus Committee, Ursinus College; Member	August 2010-present
Statistics Committee, Ursinus College; Member	August 2010-present
Organizer for Ursinus College ϵ -talks	Fall 2010-Fall 2016
Treasurer for YMN (Young Mathematicians Network)	2010-2015
Judge for MAA Student Paper Session 11, MathFest	August 2010
Reader/Reviwer for “Introduction to Homotopy Theory” by Martin Arkowitz	2007-2008
Student Seminar Organizer	2004-2005
WMU Pi Mu Epsilon Graduate Representative	2003-2005
Grader	Summer 2004, Summer 2003