Timothy E. Goldberg
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Education

Cornell University   Ithaca, NY

Doctor of Philosophy in Mathematics   August 2010

Dissertation: *Hamiltonian actions in integral Kähler and generalized complex geometry*

Advisor: Reyer Sjamaar

Committee Members: Reyer Sjamaar, Tara S. Holm, Allen Knutson

Cornell University   Ithaca, NY

Master of Science in Mathematics   May 2006

Bard College   Annandale-on-Hudson, NY

Bachelor of Arts in Mathematics   May 2002

Senior Project: *Combinatorial Lapacians of simplicial complexes*

Advisor: Ethan D. Bloch

Committee Members: Ethan D. Bloch, Lauren L. Rose, Rebecca Thomas

Professional Positions

Lenoir-Rhyne University   Hickory, NC

Mathematics Program Coordinator   August 2023 – present

Full Professor of Mathematics   August 2023 – present

Associate Professor of Mathematics   August 2017 – August 2023

Assistant Professor of Mathematics   August 2011 – August 2017

Assistant Professor of Mathematics   August 2010 – August 2011
(1-year term appointment)

Cornell University   Ithaca, NY

Teaching Assistant   Fall 2002, Fall 2004 – Summer 2010

Publications

Works in progress

- *The Joy of Quads*, with Lauren L. Rose

- *The Venn Diagram Method for Caps in $\mathbb{Z}_2^n$*, with Kariane Calta, Daniel Rose-Levine, and Lauren L. Rose

Refereed articles

- *How Many Cards Should You Lay Out in Quad-128: A Classification of Caps in $AG(7, 2)$*, with Karianne Calta and Lauren L. Rose, submitted January 2025, `https://arxiv.org/abs/2501.11173`

- *How many cards should you lay out in a game of EvenQuads: A detailed study of 2-caps in $AG(n, 2)$*, with Julia Crager, Felicia Flores, Lauren L. Rose, Daniel Rose-Levine, Darrion Thornburgh, and Raphael Walker; Matematica, **2** (2023), no. 2, 382–419, `arXiv:math.CO/2212.05353`.

- *Limits of golden constructions*, with Leigha K. Myers, Math. Mag., **96** (2023), no. 4, 399–412.

- *Algebra from geometry in the card game SET*, College Math. J. **47** (2016), 265–273.

- *A convexity theorem for the real part of a Borel invariant subvariety*, Proc. Amer. Math. Soc. **137** (2009), 1447–1458, `arXiv:math.SG/0709.3287`.

- *Singular reduction of generalized complex manifolds*, SIGMA **6** (2010), 081, 17 pages, `arXiv:math.DG/1003.1773`.

Books and book chapters

- *Game, SET, algebra!*, Chapter of *Teaching Mathematics Through Games*, MAA Press, American Mathematical Society, 2021.

Student Research

Summer Research

- Co-directed with Lauren Rose a project on Games and Finite Geometry for the *Polymath Jr. REU* (Research Experience for Undergraduates), Summer 2024
  - Virtual program open to mathematics students world-wide, numerous research projects available, partially supported by NSF award DMS-2218374.
  - Our project involved 19 undergraduate students.
  - Several groups of our students are preparing conference presentations and working on journal articles based on their work.
- Assisted Lauren Rose in mentoring her summer research students with ongoing research in games and finite geometry in Bard Summer Research Institute, Bard College, Annandale-on-Hudson, NY, Summer 2022–present
- Research project at Lenoir-Rhyne University on the mathematics of the card games SET and EvenQuads, with Demmi Ramos and MacKenzie Hulsey, Summer 2022

Senior Theses

–All students gave public presentations of their results at Lenoir-Rhyne University.

- *Analysis of the Elo Rating Method in NBA Basketball*, Austin Kelley, December 2024

- *The Monty Hall Problem, Connor Gibson, December 2024*
- *The Mathematics Behind Quads*, MacKenzie Hulsey, May 2023
- *Whose Line is It Anyway? Exploratory Research on Queuing Theory*, Eugenia K. Parish (Honors Thesis), May 2022
- *Cowboys vs. Mathematicians: An exploration of the geometry of saddles and other minimal surfaces*, Sarah Helfert (Honors Thesis), May 2021.
- *How Big is That Number?: A Brief Introduction to p-adic Numbers*, Katelyn Settlemyre (Honors Thesis), May 2020.
- *n Discs Walk onto a Peg*, Katherine Craven, May 2019.
- *"Once you pop you can't stop": The geometry of the Pringle and other minimal surfaces*, Natalie Kratts, May 2018.
- *The Power of Happiness*, Cody Mocilan, May 2018.
- *Analyzing Balance and Imbalance Puzzles*, Joanie Rhoades, December 2017.
- *Just Dealing With The Wins and Losses: The Colley Bias Free College Football Ranking Method*, Michael Patrick, May 2016.
- *Phylogenetic Trees, Group-Based Evolution Models, and Their Associated Polytopes — Oh My!*, Marie Mauhar, May 2015
- *Limits of Golden Constructions*, Leigha Myers, December 2014
- *Matchmaker, Matchmaker, Make Me A Match: The Staple Marriage Problem*, Amber Longhi, May 2014
- *Impossible Peg Solitaire: With a generous sprinkle of abstract algebra*, Tera Crisp, May 2013.
- *A Geometric Approach to the Card Game SET*, Barbara A. Woodcock, May 2013.
- *Math in the Cards: The Ins and Outs of Perfect Shuffles*, Samantha Kay Harris, May 2012.
- *The Mathematics and Educational Applications of Pascal's Triangle and the Fibonacci Numbers*, Victoria Young, May 2011.

Professional Presentations

Invited presentations

- Title TBD, Vassar College Mathematics Department Colloquium Series, Poughkeepsie, NY, March 2025.
- *Humans are Really Bad at Probability (Probabl)*, Presentation at High School Math Contest, Lenoir–Rhyne University, Hickory, NC, April 2023.
- Participant on panel discussion of documentary *M.C. Escher: Journey to Infinity*, hosted virtually by Real Art Ways, Hartford, CT, March 2021.
- *You Spin Me Right Round, Baby: The Conway-Radin Pinwheel Tiling*, virtual, University of Michigan Math Club, Ann Arbor, MI, December 2020.

- *Humans Are Really Bad at Probability (Probably)*, virtual, LR Final Fridays, Hickory, NC, September 2020.
- *Limits of Golden Constructions*, Math Colloquium, Berry College, Rome, GA, October 2016.
- *Geometry, Algebra, and SET — Oh My!*, Pi Mu Epsilon Colloquium, Elon University, Elon, NC, April 2015.
- *Humans are Really Bad at Probability (Probably)*, Presentation at Honors Program Casino Night, Lenoir–Rhyne University, Hickory, NC, February 2015.
- Mathematics Department Colloquium, Georgia Southern University, Statesboro, GA
  - *Singular reduction of generalized complex manifolds*, October 2011.
  - *Hamiltonian actions on integral Kähler manifolds*, November 2009.
- *Symmetry in Unexpected Places*, Presentation at High School Math Contest, Lenoir–Rhyne University, Hickory, NC, April 2011.
- *How to Roll a Square Wheel*, Presentation to Chi Beta Phi, Lenoir-Rhyne University, Hickory, NC, February 2011.
- *Rolling a Square Wheel*, Mathematics Department Seminar, Lebanon Valley College, Annville, PA, January 2011.
- *The pigeonhole principle*, Guest lecture in Quantitative Reasoning course, Marymount Manhattan College, New York, NY, April 2010.
- Math and C.S. Seminar, Bard College, Annandale-on-Hudson, NY
  - *Bicycle math*, April 2010.
  - *A little taste of symplectic geometry*, May 2007.
- *Möbius bands and orientability*, Guest lecture in Mathematical Explorations course, Cornell University, Ithaca, NY, October 2009.
- *A little taste of symplectic geometry*, Mathematics Seminar, Richard Stockton College of New Jersey, Pomona, NJ, October 2009.
- *Groups, groupoids, and symmetry*, Student Seminar, Union College, Schenectady, NY, April 2009.
- *Between n and $2n$: Erdös's proof of Bertrand's postulate*, Distinguished Scientist Lecture Series, Bard College, Annandale-on-Hudson, NY, April 2001.

Contributed presentations

- *Quad-Packing in Even Quads*, Special Session on Theoretical and Educational Aspects of Puzzles, AMS Spring 2025 Southeastern Sectional Meeting, Clemson University, Clemson, SC, March 2024.
- *How many cards should you lay out in EvenQuads?*, Special Session on Topics in Recreational Math and Finite Geometry, AMS Fall 2024 Eastern Sectional Meeting, University at Albany, Albany, NY, October 2024.
- *How many cards should you lay out in the card game EvenQuads?*, MAA Southeastern Section Meeting, Coastal Carolina University, Conway, SC, March 2023.

- *Alternative Grading Schemes in Linear Algebra*, MAA Southeastern Section Meeting, Clemson University, Clemson, SC, March 2018.
- *Standards-Based Grading*, Center for Teaching and Learning, Lenoir–Rhyne University, Hickory, NC, March 2015.
- Mathematics Program Course Release Presentations, Lenoir–Rhyne University, Hickory, NC
    - *A proof by Fibonacci ratios*, May 2015.
    - *Algebra from geometry in the card game SET*, May 2014.
- *Limits of Golden Constructions* (based on joint work with Leigha Myers), MAA Southeastern Section Meeting, UNC Wilmington, Wilmington, NC, March 2015.
- *More geometry with SET*, MAA MathFest, Portland, OR, August 2014.
- *Algebraic structure in the card game SET*, MAA Southeastern Section Meeting, Tennessee Technological University, Cookeville, TN, March 2014.
- *Algebraic structure in the card game SET*, Joint Mathematics Meetings, Baltimore, MD, January 2014.
- *Projectivizing SET (or, More Geometry with SET)*, (poster), MAA MathFest, Hartford, CT, August 2013,
- *Singular reduction of generalized complex manifolds*, AMS Southeastern Section Meeting, Georgia Southern University, Statesboro, GA, March 2011.
- Olivetti Seminar, Cornell University, Ithaca, NY
    - *Bicycle math*, March 2010.
    - *What's purple and commutes, and ends with "oid"?*, February 2009.
    - *What is a connection, and what is it good for?*, April 2008.
    - *A little taste of symplectic geometry*, October 2007.
    - *Group actions, torsors, and affine space*, August 2006.
    - *A little Lie algebra cohomology, if you please*, January 2006.
    - *The Lie bracket and the commutator of flows*, October 2005.
- Lie Groups Seminar, Cornell University, Ithaca, NY
    - *Hamiltonian actions in generalized complex geometry*, September 2009.
    - *How to describe a moment polytope using a line bundle*, February 2008.
    - *Convexity theorems from positive Hermitian line bundles*, November 2007.
- *A convexity theorem for the real part of a Borel invariant subvariety*, Joint Mathematics Meetings, Washington, DC, January 2009.
- *What is equivariant cohomology?*, Binghamton University Graduate Conference in Algebra and Topology, Binghamton, NY, November 2008.
- Berstein Seminar, Cornell University, Ithaca, NY
    - *The Goretsky-Kottwitz-MacPherson theorem*, November 2008.
    - *The nonabelian convexity theorem*, October 2007.
- *Combinatorial Laplacian spectra of simplicial complexes*, Hudson River Undergraduate Mathematics Conference, Hamilton College, Clinton, NY, May 2002.

- *Archimedes and the bagel: An intuitive approach to volume and area*, Hudson River Undergraduate Mathematics Conference, Skidmore College, Saratoga Springs, NY, May 2001.
- *Archimedes and the bagel: An intuitive approach to volume and area*, Annual Fall Meeting, Association of Mathematics Teachers of New York State, Kiamesha Lake, NY, October 1999.

Teaching Experience

Lenoir–Rhyne University

- MAT 070 - Foundations for Statistics
- MAT 113 - Excursions in Mathematics
- MAT 115 - Introduction to Statistics
- MAT 126 - Applied Calculus
- MAT 165 - Calculus I
- MAT 166 - Calculus II
- MAT 220 - Introduction to Mathematical Reasoning
- MAT 240 - College Geometry
- MAT 255 - Oral Exposition of Mathematics
- MAT 265 - Calculus III
- MAT 280 - Linear Algebra
- MAT 290/291 - Mathematics Course Assistant
- MAT 370 - Abstract Algebra I
- MAT 371 - Abstract Algebra II
- MAT 381 - Special Topics: Exam P Prep
- MAT 383 - Special Topics: Complex Analysis
- MAT 390 - Research Seminar
- MAT 430 - Probability I
- MAT 431 - Probability II
- MAT 450 - Financial Mathematics
- MAT 475 - Comprehensive Exam
- MAT 490 - Senior Research
- MAT 498 - Honors Senior Research
- MAT 499 - Honors Senior Thesis
- FYE 191 - First Year Experience I: *Comics and Graphic Novels*
  - A writing-intensive, two-course sequence required for all first year students, focusing on a topic chosen by the instructor and including general acculturation to college life.
- FYE 192 - First Year Experience II: *Comics and Graphic Novels*
- HON 201 - Ways of Knowing

- A course for the Honors Program in which second-year students learn about the academic research process and what it looks like in various disciplines, culminating in a research proposal in their own discipline.
- HON 490/491 - Great Books
  - A course for the Honors Program in which students and faculty read and discuss texts from various disciplines in a seminar-like setting.

Cornell University

- Mathematics and Politics, (instructor)
- Calculus I, (instructor)
- Calculus II, (instructor)
- Calculus II for Engineers, (grader and recitation leader)
- Multivariable Calculus, (grader and recitation leader)
- Differentiable Manifolds (graduate course), (grader)
- Matrix Groups, (grader)
- Manifolds and Differential Forms, (grader)
- Introduction to Differential Geometry, (grader)
- Applicable Algebra, (grader)
- Real Analysis with an Introduction to Proofs, (grader)

Professional Development

- AMS Spring 2025 Southeastern Sectional Meeting, Clemson University, Clemson, SC, March 2024.
- MAA Southeastern Section Meeting, High Point University, High Point, NC, March 2024.
- Joint Mathematics Meetings, Seattle, WA, January 2025.
- AMS Fall 2024 Eastern Sectional Meeting, University at Albany, Albany, NY, October 2024.
- MAA MathFest, Indianapolis, IN, August 2024.
- MAA Southeastern Section Meeting, University of Tennessee - Knoxville, Knoxville, TN, March 2024.
- North Carolina Academy of Science Annual Conference, East Carolina University, Greenville, NC, April 2023.
- MAA Southeastern Section Meeting, Coastal Carolina University, Conway, SC, March 2023.
- Joint Mathematics Meetings, Boston, MA, January 2023.
- MAA MathFest, Philadelphia, PA, August 2022.
- MAA Southeastern Section Meeting, Berry College, Mount Berry, GA, March 2022.

- Vocation of a Lutheran Higher Education Conference, *Called to Place: Communicate Responsive Education*, virtual, hosted by Augsburg University, Minneapolis, MN, July 2021.

- *The Amazing Elephant Trunk*, David Hu, Steelman Lecture, Lenoir–Rhyne University, Hickory, NC, March 2021.

- NC Academy of Sciences annual conference, virtual, hosted by Lenoir–Rhyne University, March 2021.

- MAA Southeastern Section Meeting, virtual, March 2021.

- LR Center for Vocation Faculty Reading Group, *Leading Lives That Matter: What We Should Do and Who We Should Be*, Hickory, NC, Spring 2021.

- Faculty Learning Community, *The Slow Professor* by Barbara K. Seeber and Maggie Berg, Lenoir–Rhyne University, Hickory, NC, Spring 2020.

- *Gerrymandering, Mathematics and Fairness*, Moon Duchin, Parson Lecture, virtual, hosted by UNC Asheville, October 2020.

- *The Multi-Tool: Quickly and Efficiently Plan Your Entire Canvas Site*, virtual, CTL Workshop, Lenoir–Rhyne University, Hickory, NC, Summer 2020.

- *Canvas 2.0: Designing Canvcas Sites that Engage and Inspire*, virtual, CTL Workshop, Lenoir–Rhyne University, Hickory, NC, Summer 2020.

- Joint Mathematics Meetings, Denver, CO, January 2020.

- Faculty Learning Community, *Out of Many Faiths: Religious Diversity and the American Promise* by Eboo Patel, Lenoir–Rhyne University, Hickory, NC, Spring 2020.

- MAA MathFest, Cincinnati, OH, August 2019.

- Vocation of a Lutheran College Conference, *Called to Place: An Education Engaging Rootedness*, Augsburg University, Minneapolis, MN, July 2019.

- Inquiry Based Learning and Teaching Conference, Denver, CO, June 2019.

- Triangle Lectures 17, Wake Forest University, Wake Forest, NC, March 2019.

- MAA Southeastern Section Meeting, Lee University, Cleveland, TN, March 2019.

- Joint Mathematics Meetings, Baltimore, MD, January 2019.

- Regional Mathematics and Statistics Conference, UNC Greensboro, Greensboro, NC, October 2018.

- MAA MathFest, Denver, CO, August 2018.

- Vocation of a Lutheran College Conference, *Civil Discourse in a Fragmented and Multi-Religious Society*, Augsburg University, Minneapolis, MN, July 2018.

- Inquiry Based Learning and Teaching Conference, Austin, TX, June 2018.

- MAA Southeastern Section Meeting, Clemson University, Clemson, SC, March 2018.

- ACM SIGCSE (Special Interest Group in Computer Science Education) Conference, Baltimore, MD, February 2018.

- MAA Southeastern Section Meeting, Mercer University, Macon, GA, March 2017.
- Regional Mathematics and Statistics Conference, UNC Greensboro, Greensboro, NC, October 2017.
- Regional Mathematics and Statistics Conference, UNC Greensboro, Greensboro, NC, October 2016.
- MAA MathFest, Columbus, OH, August 2016.
- MAA Southeastern Section Meeting, UA Birmingham, Birmingham, AL, March 2016.
- Joint Mathematics Meetings, Seattle, WA, January 2016.
- Southeastern Conference for Undergraduate Women in Mathematics, Duke University, Durham, NC, September 2015.
- MAA MathFest, Washington, DC, August 2015.
- MAA Southeastern Section Meeting, UNC Wilmington, Wilmington, NC, March 2015.
- Joint Mathematics Meetings, San Antonio, TX, January 2015.
- MAA MathFest, Portland, OR, August 2014.
- Eagle Undergrad Conf 2014, Statesboro, GA
- MAA Southeastern Section Meeting, Tennessee Technological University, Cookeville, TN, March 2014.
- Joint Mathematics Meetings, Baltimore, MD, January 2014.
- MAA MathFest, Hartford, CT, August 2013.
- MAA Southeastern Section Meeting, Winthrop University, Rock Hill, SC, March 2013.
- Joint Mathematics Meetings, San Diego, CA, January 2013.
- MAA MathFest, Madison, WI, August 2012.
- Joint Mathematics Meetings, Boston, MA, January 2012.
- MAA MathFest, Lexington, KY, August 2011.
- Joint Mathematics Meetings, New Orleans, LA, January 2011.
- Joint Mathematics Meetings, Washington, DC, January 2009.

Service

Professional

- Reviewer for *PRIMUS: Problems, Resources, and Issues in Mathematics Undergraduate Studies*, and *MAA College Math Journal*, 2012–present.
- Facilitator/host/score-keeper for Math *Jeopardy!* Competition at annual MAA Southeastern Section Meeting, various locations, 2015–present.
- Member of organizational team and moderator for Math Treasure Hunt at annual MAA Southeastern Section Meeting, various locations, 2012–present.

- Member of Section Nominations Committee, MAA Southeastern Section, Fall 2024–present.
- Member of Section Service Award Committee, MAA Southeastern Section, Spring 2018–2021.
- Facilitator/host for Math *Jeopardy!* Competition at MAA MathFest, Philadelphia, PA, August 2022.
- Judge for Student Poster Session at MAA MathFest, Philadelphia, PA, August 2022.
- Organizer and moderator for special session on Recreational Mathematics, MAA Southeastern Section Meeting, various locations, March 2019, March 2020, March 2021, March 2022, March 2024, March 2025.
    - March 2020 session was prepared but conference was cancelled due to Covid-19.
    - March 2019 session was co-organized with Ron Taylor, Berry College.
- Moderator for speaker session at North Carolina Academy of Sciences annual conference, virtual, hosted by Lenoir–Rhyne University, March 2021.
- Secretary/Treasurer for Special Interest Group of MAA on Recreational Mathematics, Spring 2018–Spring 2020.
- Served on panel discussing Intersection of Science and Faith, convocation, Lenoir–Rhyne University, Hickory, NC, April 2019.
- Reviewer for Mathematical Reviews (journal and online database), American Mathematical Society, 2014–2016.
- Editorial Board Member, Young Mathematicians Network, 2011–2016.
- Co-organizer of YMN/MAA Social Hours *Managing Your Own Course*, *Find a Research Collaborator*, Joint Mathematics Meetings, Seattle, WA, January 2016.
- Co-organizer of YMN/MAA discussions *Managing Your Own Course*, *Finding a Research Collaborator*, Joint Mathematics Meetings, San Antonio, TX, January 2015.
- Co-organizer of YMN panel *Career options for undergraduate mathematics majors*, Joint Mathematics Meetings, Baltimore, MD, January 2014.
- Co-organizer of YMN panel *Graduate School: Choosing One, Getting In, Staying In*, Joint Mathematics Meetings, San Diego, CA, January 2013.
- Co-organizer of Project NExT panel *Assessing Classroom Effectiveness*, MAA MathFest, Madison, WI, August 2012.
- Co-organizer of Project NExT panel *Beyond Jeopardy! Games for learning mathematics*, Joint Mathematics Meetings, Boston, MA, January 2012.
- Invited participant in *Graduate School Information Panel* during Research Experience for Undergraduates, Bard College, Annandale-on-Hudson, NY, July 2011.
- Mathematics Graduate Teaching Assistant Trainer, Cornell University, Ithaca, NY, August 2005 and 2009.
- Student Facilitator for New Student Reading Project, Cornell University, Ithaca, NY, August 2008.
- Presenter in *Hands-On Mathematics* program at 4-H Career Explorations Conference, Cornell University, Ithaca, NY, July 2008.

- Organizer for the *Olivetti Seminar* graduate student colloquium, Cornell University, Ithaca, NY, 2006–Fall 2007.
- Invited participant in *Graduate School Information Session* at Mid-Hudson Mathematics Conference for Undergraduates, Bard College, Annandale-on-Hudson, NY, October 2007.

Institutional

- Lenoir-Rhyne High School Math Contest
  - Co-Chair, 2014–present.
  - Assistant Chair, 2012–2013.
- Director of Math & CS Tutoring Center, 2011–Spring 2014.
- Honors Academy
  - Assistant Director, Fall 2021–Fall 2013.
  - Acting Assistant Director, Spring 2021.
  - Member of Advisory Council, Spring 2019–Fall 2020.
  - Attended and assisted with First Year Honors Retreat, YMCA Blue Ridge Assembly, Black Mountain, NC, August 2018, August 2019.
  - Attended and assisted with Senior Honors Retreat, Lenoir–Rhyne University, Hickory, NC, February 2018.
- Chair of Faculty Assembly, Spring 2021–August 2023.
- Co-organized guest speaker series for Math Department (specifically for Math Seminar, MAT 255/390) with Doug Burkholder, Spring 2022.
- Moderator/interviewer for LR Visiting Writers Series event with Neil Gaiman, October 28, 2021.
- Organized MAA North Carolina State Dinner presentation, *Mating habits of polynomials*, Sarah Koch, University of Michigan, virtual, March 2021.
- Co-organized guest speaker series for Math Department (specifically for Math Seminar, MAT 255/390) with Jennifer Garbett, Spring 2021.
- Attended and assisted with Broyhill Leaders Retreat, Camp Agapé, Kure Beach, NC, February 2019.
- Acting Director of General Education, Fall 2018.
- Donald and Helen Schort School of Mathematics & Computing Sciences
  - School Chair, August 2015 – August 2017.
  - Acting School Chair, August 2014 – August 2015.
- Committees:
  - Institutional Assessment and Effectiveness Committee, (as Faculty Assembly Chair), Spring 2021–August 2023.
  - Executive Committee, (Ex-officio as Faculty Assembly Chair), Spring 2021–August 2023.
  - Provost Council, (as Faculty Assembly Chair), Spring 2021–August 2023.

- – Observer to Board of Trustees, (as Faculty Assembly Chair), Spring 2021–August 2023.
- – President's Cabinet, (as Faculty Assembly Chair), Spring 2021–May 2022.
- – Faculty Status and Hearing Committee, Fall 2019–Fall 2020.
- – FYE Advisory Board, Spring 2019–Spring 2020.
- – Convocation Committee, 2011–2016, Spring 2019–Spring 2020.
- – Academic Program Committee, Fall 2016–Spring 2019.
- – QEP Implementation Team, Spring 2018–Spring 2019.
- – Quality Enhancement Plan Committee, 2015–2018.
- – Faculty Constitution Review Task Force, 2014–2016.
- – Steelman Visiting Scientist Lectureship Committee, 2011–2016.
- – Executive Committee, Spring 2013–Spring 2016 (Chair, Spring 2015–Spring 2016).
- – Sounding board for Engaged Scholars Program Proposal, Fall 2014.
- – J-Term/Maymester Investigative Task Force, Spring 2012.
- Search Committees:
  - – Assistant Professor of Mathematics, Fall 2022–Spring 2023, (Committee Member).
  - – Technical Director/Scenic and Lighting Designer for Theatre Program, Spring 2023, (Committee Member).
  - – Assistant Professor of Theatre, Spring 2022, (Committee Member).
  - – Assistant Professor of Computer Science, Fall 2018–Spring 2019, (Committee Member).
  - – Assistant Professor of Computer Science, Fall 2017–Spring 2018, (Committee Member).
  - – Visiting Assistant Professor of Mathematics, Spring 2016, (Committee Chair).
  - – Tenure-Track Assistant Professor of Mathematics, 2015–2016, (Committee Chair).
  - – Visiting Assistant Professor of Mathematics, Spring 2015, (Committee Chair).
  - – Dean of the College of Professional and Mathematical Studies, Spring 2013, (Committee Member).
  - – Two faculty positions in the School of Mathematics and Computing Sciences, Spring 2013, (Committee Member).
- Faculty Advisor to Student Organizations:
  - – LR Pride Club, Fall 2022–Spring 2023.
  - – Ursa Mathematica: The LR Math Club, 2016–2021.
  - – Alpha Beta Chapter of Chi Beta Phi, National Scientific Honorary, 2012–2017.
    - ∗ Awarded *Most Improved Chapter* by National Organization, 2013–2014.
  - – Lenoir–Rhyne Quidditch Club, 2016–2017.
- Committee Member for Honors Theses:
  - – Ellie Wilhelm, Biology, December 2024.

- John Gonzalez, Biology; Samuel Murphy, Physics; May 2021.
- Samueal Melnyk, Hannah Snyder; Biology, April 2019.
- Pashence Johnson, Robert Steljes, Amber Walser; Biology, May 2016.
- Logan Bearfield, Biology, May 2014.
- Grace Fox, Biology, May 2013.

Community

- Member of LR A Cappella Choir, Tenor, Fall 2021–present.
- Member of Hickory Choral Society, Tenor, Fall 2011–Spring 2016, Fall 2020–Fall 2021.
    - Tenor Section Leader, 2015–2016 season.
- Member of Lenoir–Rhyne Playmakers, 2012–present.
    - portrayed Doctor Fine/Madden in *Next to Normal*, Fall 2021.
    - portrayed Judge/Ensemble Member #2 in *Chicago*, November 2019.
    - portrayed Howie Newsome in *Our Town*, Fall 2017.
    - portrayed Jimmy Powers in *City of Angels*, Spring 2016.
    - portrayed Grandfather and J.P. Morgan in *Ragtime*, Spring 2014.
    - portrayed Reverend Kimball in *The Threepenny Opera*, Spring 2012.

Recognitions

- Awarded John B. Stephenson Semester Fellowship by the Appalachian College Association for Spring 2025, `https://acaweb.org/2023_24_faculty_fellowships`.
- Passed Exam P, Society of Actuaries and Canadian Institute of Actuaries, May 2019.
- Supporting Faculty of the Year, LR Bears Choice Awards, May 2019.
- MAA Project NExT Fellow, (Peach '11), 2011–2012.
- Spring 2010 Best Olivetti Talk (*Bicycle math*)
    - Awarded each semester by the Cornell University graduate students in mathematics to the speaker in the Olivetti Seminar (graduate student colloquium) who has given the best talk.
- Teaching Assistantship, Cornell University, 2002–2010.
- 2002 William J. Lockwood Prize
    - Awarded by the president of Bard College to the student who has contributed most to the intellectual life of the college.
- 2002 Dr. Richard M. Siegel Memorial Prize in Science
    - Awarded by the science faculty of Bard College for academic excellence.
- 2001 Sara Gelbart Prize

- Awarded by the Bard College Mathematics Department for outstanding work in mathematics.

- 2000 Kenneth Bush Award
  - Awarded by the Bard College Mathematics Department for academic achievement and excellence in mathematics.

- Distinguished Scientist Scholarship, 1998–2002.
  - A four-year, full-tuition scholarship at Bard College awarded to outstanding high school seniors who are committed to majoring in science in their undergraduate studies.

Memberships

- Member of Mathematical Association of America
- Member of American Mathematical Society
- Member of Association for Women in Mathematics
- Member of Association of Mathematics Teachers of New York State
- Member of Chi Beta Phi, National Scientific Honorary
- Member of North Carolina Academy of Science