Courtney R. Gibbons
Curriculum Vitæ

198 College Hill Road
Clinton, NY 13323
(315) 859-4886
crgibbon@hamilton.edu
crgibbons.github.io

Employment

Associate Professor, Dept. of Mathematics and Statistics, Hamilton College, Clinton, NY — Jul 2019–Pres

Expert (Intermittent), National Science Foundation, Alexandria, VA — Jul 2024–Feb 2025

AAAS Science and Technology Policy Fellow, Alexandria, VA — Aug 2023–Jul 2024
National Science Foundation, Directorate for Computer and Information Science and Engineering, Division of Information and Intelligent Systems, Robust Intelligence Cluster

AAAS Congressional Science and Technology Fellow, Washington, DC — Aug 2022–Jul 2023
Senate Homeland Security and Governmental Affairs Committee
Majority Staff of Chairman Gary C. Peters

Assistant Professor, Dept. of Mathematics, Hamilton College, Clinton, NY — Jul 2013–Jun 2019

Paraprofessional, Dept. of Mathematics and CS, Colorado College, Colorado Springs, CO — Aug 2006–Jun 2027

Education

Ph.D. Mathematics, University of Nebraska–Lincoln — Aug 2013

M.S. Mathematics, University of Nebraska–Lincoln — May 2009

B.A. Mathematics, Colorado College; *Summa Cum Laude* with Distinction in Mathematics — May 2006

Research

(* indicates a paper with undergraduate coauthors)

Published and Accepted Work

Article. N. R. Baeth et al., Divisor sequences of atoms in Krull monoids, J. Commut. Algebra **14** (2022), no. 1, 1–17; MR4430698

Article.* C. Bondi et al., A hypergraph characterization of nearly complete intersections, in *Women in commutative algebra*, 95–110, Assoc. Women Math. Ser., 29, Springer, Cham; MR4428288

Article. C. R. Gibbons, D. A. Jorgensen and J. A. Striuli, L-dimension for modules over a local ring, in *Commutative algebra—150 years with Roger and Sylvia Wiegand*, 83–91, Contemp. Math., 773, Amer. Math. Soc., RI; MR4321392

Article.* C. R. Gibbons, R. Huben and B. Stone, Recursive strategy for decomposing Betti tables of complete intersections, Internat. J. Algebra Comput. **29** (2019), no. 7, 1165–1191; MR4022702

Article. C. Améndola et al., The maximum likelihood degree of toric varieties, J. Symbolic Comput. **92** (2019), 222–242; MR3907355

Article.* M. T. Annunziata et al., Rational combinations of Betti diagrams of complete intersections, J. Algebra Appl. **17** (2018), no. 5, 1850079, 14 pp.; MR3795374

Article. C. R. Gibbons, J. D. Laison and E. J. Paul, Critical pebbling numbers of graphs, J. Combin. Math. Combin. Comput. **99** (2016), 199–224; MR3585742

Code. A. Conner, C. R. Gibbons, W. F. Moore, `NCAlgebra.m2` (new package), distributed with Macaulay2-v1.9.

Code. C. R. Gibbons and B. Stone, `BoijSoederberg.m2` (package revisions), distributed with Macaulay2-v1.8.

Article. C. R. Gibbons et al., Non-simplicial decompositions of Betti diagrams of complete intersections, J. Commut. Algebra **7** (2015), no. 2, 189–206; MR3370483

Dissertation. C. R. Gibbons, *Decompositions of Betti diagrams*, ProQuest LLC, Ann Arbor, MI, 2013; MR3153511

Article. C. Berkesch et al., The cone of Betti diagrams over a hypersurface ring of low embedding dimension, J. Pure Appl. Algebra **216** (2012), no. 10, 2256–2268; MR2925819

Article. C. R. Gibbons and J. D. Laison, Fixing numbers of graphs and groups, Electron. J. Combin. **16** (2009), no. 1, Research Paper 39, 13 pp.; MR2491641

Under Review

Curated Sequences. A392482, A392483, A392485, A392486; Online Encyclopedia of Integer Sequences.

Work in Preparation

Article. N. Baeth, C. R. Gibbons and R. Rissner, Tensor Products of Semigroups.
Article.* M. Donovan, C. R. Gibbons, I. Khan and A. Petrova, Boolean matrices: powers and properties.
Article. L. L. Avramov, C. R. Gibbons and R. Wiegand, Monoids of Betti tables over graded algebras: the case of short Gorenstein algebras. (Preprint in limited circulation.)

Conference Talks

† indicates an invited talk; * indicates an upcoming talk
JMM: Joint Mathematics Meetings (national gathering of mathematicians)
AMS: American Mathematical Society

1217th AMS Meeting Special Session on Commutative Algebra at PUIs †* Apr 2026
North Dakota State University, Fargo, ND
Koszul Complexes and U[-grads]

1176th AMS Meeting Special Session on Combinatorial Methods in Commutative Algebra † Mar 2022
Tufts University, Medford, MA (Online)
Applications of Tensor Products of Semigroups

1167th AMS Meeting Special Session on Commutative Algebra † May 2021
San Francisco, CA (Online)
A Hyper graph Characterization of Nearly Complete Intersections

1150th AMS Meeting Special Session on Commutative Algebra:
in Celebration of the 150th Birthday of Roger and Sylvia Wiegand † Sep 2019
University of Wisconsin-Madison, Madison, WI
Realizing Divisor Sequences in Krull Monoids

MathFest: Commutative Algebra Special Session† Aug 2019
Cincinnati, OH
Syzygy - When Submodules Align

Joint Mathematics Meetings (JMM): Special Session on Commutative Ring Theory:
Research for Undergraduate and Early Graduate Students Special Session † Jan 2019
Baltimore, MD
Boij-Söderberg theory as an introduction to research in commutative algebra

Route 81 Conference Sep 2018
Syracuse University, Syracuse, NY
Recursive strategy for decomposing Betti diagrams of complete intersections

SIAM Applied Algebraic Geometry Meeting: Maximum Likelihood Degree Minisymposium † Aug 2017
Georgia Institute of Technology, Atlanta, GA
Maximum Likelihood Degrees for Discrete Random Models

Second International Workshop and Conference on Commutative Algebra † Oct 2016
Tribhuvan University, Kathmandu, Nepal
Preparatory Workshop Talk: *Graded Rings, Graded Modules, and Numerical Invariants*
Research Conference Talk: *Short Gorenstein Rings: Numerics and Consequences*

Joint Mathematics Meetings (JMM): Commutative Algebra Special Session † Jan 2016
Seattle, WA
A ring without a Boij-Söderberg theory

MathFest: Concrete Computations in Algebra and Algebraic Geometry Invited Paper Session † Aug 2015
Washington, DC
The search for indecomposable modules

1092nd AMS Meeting Special Session on Commutative Algebra † Oct 2013
University of Louisville, Louisville, KY

Non-simplicial decompositions of Betti diagrams of complete intersections

1085th AMS Meeting Special Session on Commutative Algebra † Oct 2012
University of Arizona, Tucson, AZ
Modules over short Gorenstein rings

JMM AMS Contributed Papers Session Jan 2013
San Diego, CA
Modules over short Gorenstein rings

1074th AMS Meeting Special session on Commutative Algebra † Oct 2011
University of Nebraska–Lincoln, Lincoln, NE
New directions in Boij–Söderberg theory

Research Seminar Talks

University of Nebraska–Lincoln Commutative Algebra Seminar, Lincoln, NE Apr 2025
Tensor products of semigroups

Syracuse University Algebra Seminar, Syracuse, NY Nov 2024
Toward understanding semigroup properties under the tensor product(s)

National Science Foundation CISE Research Tea, Alexandria, VA Mar 2024
Boolean matrices and the semigroup action problem for creating shared secrets

University of Idaho Topics in Algebra, Topology, Etc. Research Seminar, Boise, ID (virtual) Oct 2024
Semigroups and Senators

George Mason University Mathematics Colloquium, Fairfax, VA Apr 2023
Hypergraphs Applied to Commutative Algebra

Centro de Investigación en Matemáticas
Commutative Algebra and Algebraic Geometry Seminar, Guanajuato, Mexico (virtual) Nov 2021
Descomposiciones de Boij-Söderberg de intersecciones completas

University of Nebraska–Lincoln Commutative Algebra Seminar, Lincoln, NE Feb 2017
A Ring without a Boij-Söderberg Theory Feb 2017

Williams College Faculty Research Seminar, Williamstown, MA Nov 2016
Representations of Kronecker Quivers

Syracuse University Algebra Seminar, Syracuse, NY Mar 2015
Parametrizing a family of indecomposable modules

University of Utah Algebra Seminar, Park City, UT Mar 2012
Decomposition of Betti diagrams over a quadric hypersurface

University of Texas at Arlington Algebra Seminar, Arlington, TX Mar 2012
Betti diagrams over a small hypersurface

University of Nebraska–Lincoln Commutative Algebra Seminar, Lincoln, NE Sep 2010
Boij-Söderberg Theory I: Betti diagrams over polynomial rings
Boij-Söderberg Theory II: Betti diagrams over $k[x,y]/(x^2)$

University of Nebraska–Lincoln Commutative Algebra Reading Seminar, Lincoln, NE 2008–13
University of Nebraska–Lincoln Graduate Student Seminar, Lincoln, NE 2008–12

Posters

JMM Association for Women in Mathematics Workshop poster session Jan 2013
JMM Undergraduate research poster session Jan 2007

Selected Workshops, Conferences, and Summer Schools

Institute for Advanced Study Park City Mathematics Institute Park City, UT
Undergraduate Faculty Program — Jul 2018

Banff International Research Station Banff, Alberta, CA
New Trends in Syzygies — Jun 2018

Georgia Institute of Technology Atlanta, GA
Applied Macaulay2 Tutorial — Jul 2017

AMS Mathematics Research Community Snowbird, UT
Algebraic Statistics — Jul 2016
Commutative Algebra — Jul 2010

Mathematical Sciences Research Institute Berkeley, CA
Macaulay2 Workshop — Jan 2014
Joint Introductory Workshop: Cluster Algebras and Commutative Algebra — Aug 2012
Summer Graduate School on Commutative Algebra — Jun 2011

Colorado College Colorado Springs, CO
Macaulay2 Workshop — Aug 2010

The Abdus Salam International Center for Theoretic Physics Trieste, Italy
School on Commutative Algebra and Interactions with Algebraic Geometry and Combinatorics — Sum 2010

Organizer

JMM Atlanta, GA — Jan 2017
Commutative Algebra: Research for Undergraduate and Early Graduate Students

1115th AMS Meeting Rutgers University, New Brunswick, NJ — Nov 2015
Special Session on Aspects of Resolutions and Syzygies in Commutative Algebra

KUMUNUjr (Co-Founder, Co-Organizer, Co-PI on funded NSF conference grant) Lincoln, NE — 2012–13

Undergraduate Research Supervisor

Research Supervisor

Hamilton College
- Boolean Matrices: Eigen-Problems, Preperiodic Behavior, and CPU Benchmarking — Sum 2025
- Differential Graded Algebras and Directed Graphs — Sum 2019
- Physics, Mathematics, and Music [with K. Brown] — Sum 2016
- Senior Fellowship (Robert Huben '15) — AY 2014–15

Clemson University
- COURAGE Research Experience for Undergraduates — Sum 2020

Willamette University
- WVMC Research Experience for Undergraduates — Sum 2015

Teaching

Published and Accepted Work

Web Booklet. C. R. Gibbons, Logic for Linear Algebra, available online: Logic For Linear Algebraists: 150 minutes of logic for proof writing. Self-published.

Article. R. Bedient and C. R. Gibbons, Grandma Makes Granola, College Math. J. 46 (2015), no. 1, 58–60.

Work in Progress

Text Book. C. R. Gibbons, Abstract Algebra Actively. (Contract in progress with 619 Wreath)

Article. C. R. Gibbons and E. Tripp, Click and Clack and Calc, Too.

Professional Teaching Experience

(* indicates a course I designed, † indicates an existing course I have significantly modified)

Instructor of Record

Hamilton College

- `MATH 113` Calculus I
- `MATH 116` Calculus II
- `MATH 224W`† Linear Algebra (Writing Intensive)
- `MATH 260`* Decisions by Design: Applied Math in Society
- `MATH 325W`† Modern Algebra (Writing Intensive)
- `MATH 327`* Cryptography
- `MATH 361`* Number Theory with Applications (Speaking Intensive)
- `MATH 450` Independent Study
- `MATH 498`† Mathematics in Social Context
- `MATH 512`* Number Theory with Applications (Speaking Intensive)
- `MATH 525`* Computational Algebra (Speaking Intensive)

Herkimer County Community College at Mohawk Correctional Facility

- `MATH 124` Contemporary Mathematics

University of Nebraska–Lincoln

- `MATH 101` College Algebra
- `MATH 203` Contemporary Mathematics
- `MATH 300` Mathematics Matters (for future elementary educators)

All Girls/All Math (cryptography summer camp for girls)

- Codes and Cryptology

Guest Lectures

Hamilton College

- `COLL 371` Common Seminar Adirondacks Program
- `HSPST 370` Postmodern Spain: New Narratives and New Technologies

Graduate Teaching Assistant

University of Nebraska–Lincoln

- `MATH 806T` Number Theory and Cryptology
- `MATH 811T` Functions for Precalculus Teachers (online)
- `MATH 805T` Discrete Math and Combinatorics
- Super-TA for all Calculus Courses

Pedagogical Engagement

Pedagogy in Practice Group

Computational Software for Data Science	Spr 2026
Student Learning Outcomes for Data-Driven SSIH Courses	Spr 2025

Webinars and Online Trainings

Mastery Grading Conference Online (14 hours)	May 2021
PEDESTALS 2: Teaching Mathematics Remotely and Doing It Well College Bridge (8 hours)	Sum 2020
Embodying Liberatory Practices in the Classroom NYU Metro Center (1.5 hours)	Jun 2020
Mastery Grading Conference Grand Valley State University (14 hours)	May 2020

Mathematical Association of America Minicourses

Alternative Grading	Aug 2019
Flipping the Classroom	Jan 2015

AHA! Group

Race, Pedagogy, and Building an Antiracist Institution	AY 2020–22
Research Advising in Virtual Environments	AY 2020–22
Active Learning in STEM	Spr 2020
Decolonizing Education	AY 2018–19

Curricular Development

Decisions by Design: Applied Math in Social Context SSIH, applied math elective

Number Theory and Applications senior seminar
Computational Algebra senior seminar
Math Department SSIH requirement — Sum 2016
Number Theory and Applications elective
Cryptography elective

Consortium on High Achievement and Success Grant
Alumna participant — Spr 2017
Faculty Development on Teaching Diverse First-Year Students — Spr 2016

Hamilton College DOF Reading Discussions
Book: *Teaching Naked* — Sum 2015
Book: *What the Best College Teachers Do* — Sum 2014

Presentations

Manhattan University Public Lecture — Mar 2025
Los Alamos Labs Athena Program Lecture — Aug 2024
BIG Network Online Lecture: Careers in Industry — Jan 2024
Simpson College Public Lecture — Mar 2022
Houghton College Math Department Colloquium — Jan 2022
Ithaca College Math Department Colloquium — Feb 2021
Connecticut College Senior Seminar — Feb 2021
Denison University Math and CS Colloquium — Oct 2019
Sacramento State Math Club Algebra, Number Theory, and Combinatorics Colloquium — Mar 2017
Williams College AWM Student Chapter Kick-Off Talk — Feb 2017
Utica College Math Colloquium — Feb 2017
Adelphi University Math and Comp Sci Seminar
From Statistics to Algebra and Back Again — Sep 2016
A Variety of Ways to Solve a Problem — Mar 2015
Hampshire College HCiSSM Prime Time Lecture — Aug 2013
Williams College Undergraduate Mathematics Seminar — Jan 2013
Bard College Mathematics Seminar — Nov 2012
William Jewell College Pi Mu Epsilon Colloquium — Nov 2012
Colorado College Mathematics Seminar — Apr 2010
Hamilton College Talking About Teaching series
Panelist, Ada Lovelace Celebration — Oct 2018
Speaker, Inclusive Pedagogies: Teaching a Diverse Student Body — Apr 2016
Hamilton College Why I Teach series
Speaker, *Surprise, Satisfaction, and Joy* — Dec 2018

Service

To the Profession

American Mathematical Society
Committee Member, Committee on Science Policy — Jan 2025–Pres
Session Co-Organizer, JMM Panel Discussion - How the Federal Government Funds Science Research — Jan 2026

Association for Women in Mathematics
Chair, Government Advocacy Committee — Jan 2024–25
Elected Committee Member, Executive Committee — Jan 2022–26
Committee Member, Education and Outreach Portfolio Committee — Jan 2022–26
Task Force Member, Noether Lecture Replacement at JMM Fall 2020
Session Co-Organizer, JMM Panel Discussion - Equity, Ethics, and Bias in Mathematics — Fall 2020
Chair, Committee on Policy and Advocacy — Nov 2019–20
Committee Member, Committee on Policy and Advocacy — Jan 2018–20

Mathematical Association of America

Search Committee Member, College Mathematics Journal editor AY 2021–22
Editor, Anneli Lax New Mathematics Editorial Board 2022–Pres

National Science Foundation, Panelist, Grant Proposal Review 2018, 2022

Panelist
ParaDIGMS Conference Panel - Becoming comfortable with discomfort: moving from thoughts to action May 2022
Nebraska Conference for Undergrad. Women in Math (NCUWM) Panel - Random Bits of Advice Feb 2017
JMM Joint Committee on Women in Mathematical Sciences Panel - Success in Graduate School Jan 2016
MathFest Association for Women in Mathematics Panel - Mentoring Matters Jun 2014

Referee/Reviewer
Amer. Math. Monthly, *Coll. Math. Journal*, *J. Commut. Algebra*, *J. Algebra Appl.*, *Mathematical Reviews*, *Minnesota J. of Undergrad. Math.*, *Comm. Algebra*

To Hamilton College

Shared Governance
Elected Member, Academic Council (ex officio) AY 2025–26
Faculty Chair AY 2025–26
Appointed Member, COACHE Survey Ad Hoc Committee Spr 2025
Appointed Member, Data Science Program Committee AY 2022–Pres
Director AY 2025–28
Elected Member, Committee on Academic Policy AY 2019–22
Chair AY 2021-22
Member, SmartCatalog Team AY 2020–22
Parliamentarian AY 2020-21
Appointed Member, Middle States Standard VII Working Group Fall 2019–20
Appointed Member, Quantitative and Symbolic Reasoning Advisory Committee AY 2018–19
Appointed Hamilton Representative, Liberal Arts Consortium for Online Learning Fall 2017–18
Appointed Member, Writing Advisory Committee Fall 2017–19
Elected Member, Dean of Faculty Search Committee Fall 2017
Member, Junior Faculty Caucus AY 2014–18
Elected Member, Honor Court AY 2014–16

Service to Phi Beta Kappa (Epsilon of New York)
Secretary and Treasurer AY 2025–Pres
President AY 2017–20
Vice President AY 2014–16
Committee on selection criteria Spr 2014
Active Member 2023–Pres

Mathematics Department
Calculus Czar 2017-Pres
Advisor, Student Chapter of the Association for Women in Mathematics 2017–Pres
Assistant, Mathletics Putnam Team (led by Prof. Andrew Dykstra) 2013–14

Consultant
Counseling Center usage statistics and projections for David Walden Fall 2016

Focus Group Member
Ellucian advising tool for Registrar's Office Fall 2016

PossePlus Retreat Invited Attendee 2018, 2024

Faculty Advisor Hamilton College Vegan Club AY2014–22

Academic Advisor AY 2014-Pres

To University of Nebraska–Lincoln

Orientation Leader and Panelist, Workshop for Graduate TAs 2010–12
Volunteer, Annual Math Day Fall 2007-12
Elected Representative, Math Graduate Student Advisory Board AY 2007-09

Outreach

Presentations

Trinity Upper School Fogelson Math Symposium, New York, NY
No Rectangles! Feb 2025

The Other Side Utica, NY
The Mathematics of Online Privacy Apr 2021
Gerrymandering: Hijacking Democracy One Non-Convex Region at a Time Oct 2018
The Mathematics of Climate Change Oct 2015

Talk Math with your Friends
The Real Friends are the Betti Numbers We Calculated Along the Way Oct 2020

Institue for Advanced Study: Park City Mathematics Institute Ignite Talk, Park City, UT
From Zero to Syzygy in Five Minutes Jul 2018

The Arthur Levitt Public Affairs Center
Gerrymandering: The Math Behind the Madness Apr 2018

Hamilton College
Days-Massolo Center "What is...?" series *What is... Gerrymandering?* Oct 2018
The Card Catalog Project *Googling It: How Google Ranks Search Results* Oct 2017
Emerson Literary Society *Sudoku, Apes, and Algebra: An ELS "Tell Us What You Know" Lecture* Fall 2015
Sigma Xi Colloquium *Syzygy: Understanding Relationships among Polynomials* Spr 2014

Community Engagement

Creator, YouTube Channel Pres
Coordinator and Key Personnel, Math Chairs for Racial Justice Jul 2021
Facilitator, Math Chairs for Racial Justice Jul 2020–21
Penpal, Prison Mathematics Project (connecting incarcerated folks to math mentors) – 3 penpals 2020–Pres
Web Design Team Member, covidcp.org (a COVID-19 protocol sharing site) Spr 2020
Judge, Pfizer–Novartis–LPS Science Fair 2010–12
Classroom Leader, Saturday Science at UNL Feb 2010

In the Media

In Print
American Mathematical Society page-a-day calendar illustration (Left-Handers Day) Aug 2020

Interviews
My Favorite Theorem math podcast Episode 73–Courtney Gibbons Jan 2022
Significant Figures podacst Courtney Gibbons (Math) Dec 2021
My Favorite Theorem math podcast Episode 45: Your Flash Favorite Theorems (timestamp 3:48) Aug 2019
Roots of Unity Scientific American blog "shout out" in Mathematical Mondegreens Aug 2019
Chronicle of Higher Ed Teaching Newsletter, 10/5/17 Oct 2017
Relatively Prime math podcast Diegetic Plots: Chapter 2 Feb 2016
Girls' Angle Bulletin volume 8, no. 3-4 Feb 2015

Featured Columns
AMS Feature Column: All Columns

This Queen Loves to Tango Jul 2025
Lattices: Plane and Fancy Jun 2024
Math Meets Congress Sep 2023
Perspectives on Polynomials: It's a Witch! Mar 2023
Applied Algebra, a Variety Show Aug 2022
What is a prime, and who Decides? Nov 2021

Guest Columns
AMS Blog On Teaching and Learning Mathematics: Building Relationships Before the Semester Begins May 2021
AMS Inclusion/Exclusion Blog: Women of Color: Who Tells Their Stories? (and why it matters) May 2021
The Global Math Department Newsletter
An AMC for the Mathematics Community (with B. Fantechi & M. VanDieren) Feb 2021
Liberatory Mathematics for breaking out of jail Feb 2021
AMS Notices Early Career column May 2020

AWM Newsletter volume 49, no. 1: New NSF Funding Requirements — Jan 2019
Girls' Angle Bulletin volume 10, no. 5: Errorbusters — Jun 2017
AMS *e-Mentoring Network Blog*: The Four Parts of No — Jun 2017
Math Babe Be More Careful with Stats in Teaching Evaluations — Feb 2015

Actor
Mathematically Bent Theater at JMM — Jan 2014–17

Awards, Fellowships, and Affiliations

Executive Branch STP Fellow American Association for the Advancement of Science (AAAS) 2023
Legislative Branch STP Fellow American Association for the Advancement of Science (AAAS) 2022
Partner Institute for the Quantitative Study of Inclusion, Diversity, and Equity (QSIDE) 2020
Adjunct Professor Mohawk Correctional Campus, Herkimer College, Rome, NY 2019
The John R. Hatch Class of 1925 Excellence in Teaching Award Hamilton College 2015
Project NExT Fellow Mathematical Association of America 2013
Outstanding Graduate Teaching Assistant UNL College of Arts and Sciences 2011
Emeritus Faculty Fellow UNL Department of Mathematics 2010
Graduate Fellowship UNL College of Arts and Sciences 2009
Outstanding Qualifying Exams UNL Department of Mathematics 2008
Florian Cajori Prize in Mathematics Colorado College 2006

Grant-Supported Activity

Math Leaders 4 Racial Justice Workshop Key Personnel, NSF Grant #DUE-2141578 Sum 2022
Macaulay2 Virtual Workshop Co-PI NSF Grant #DMS-2003883 Sum 2020
Noncommutative Algebra Emerson Project Advisor Sum 2019
Discovery-Based Algebra Activities Hamilton Class of 1966 Career Development Award Sum 2016
WMC REU Research Mentor NSF Grant #DMS-1460982 Sum 2015
KUMUNUjr Co-PI NSF Grant #DMS-1303248 Spr 2013
Graduate Researcher NSF Grant #DMS-1103176 Spr 2012
GAANN Trainee DOE Grant #200A90002 AY 2010
NebraskaMATH Assistant NSF Grant #DUE-1035268 AY 2011–12
Project Fulcrum Resident Scientist NSF Grant #DGE-0086358 AY 2009-10
MCTP Trainee NSF Grant #DMS-0838463 AY 2007-08

Professional Memberships and Honor Societies

American Association for the Advancement of Science (AAAS), American Association of University Professors (AAUP), American Mathematical Society (AMS), Association for Women in Mathematics (AWM), Mathematics Association of America (MAA), Society for Industrial and Applied Mathematics (SIAM), National Association of Mathematicians (NAM), Golden Key Honor Society, Phi Beta Kappa (ΦBK)