

NANCY EATON, Ph.D.

Lippitt Hall, 5 Lippitt Rd.
University of Rhode Island
Kingston, RI 02881

neaton@uri.edu
(401) 874-4107

POSITIONS

University of Rhode Island:

- Full Professor of Mathematics, 07/2005 to present (current level Full III) -----
- Director of Data Science, 07/2020 – 07/2023 Interim (09/2019 - 06/2020) -----
- Associate Dean, College of Arts and Sciences, 07/2014 to 06/2019 -----
- Chairperson, Department of Mathematics, 05/2008 to 06/2014 -----
- Associate Professor of Mathematics, 07/1998 to 06/2005 -----
- Assistant Professor of Mathematics, 07/1992 to 06/1998 -----

Emory University:

- Teaching Assistant, Mathematics PhD Program, 09/1987 to 05/1992 -----

Poughkeepsie New York:

- Systems Analyst, Central Hudson Gas and Electric Corporation, 06/1985 to 08/1987-----

EDUCATION

Ph.D in Mathematics

- Emory University, Atlanta GA - awarded May 1992 -----

B.S. in Mathematics

- State University of New York at New Paltz - awarded May 1985 -----

A.S. in Computer Science

- Dutchess Community College, Poughkeepsie, NY - awarded Jan. 1984 -----

LEADERSHIP

Director of Data Science (2019-2023)

- Wrote a proposal to update the BA Program and establish it as an appropriate dual-major along with students in the biological sciences.
- Coauthored and signed an MOU between the Department of Computer Science and Statistics (CSS), the Department of Mathematics and Applied Mathematical Sciences (MTH), and the Dean of Arts and Sciences to establish the Data Science Program as an independent unit within the College, governed by an executive committee composed of representatives from: Computer Science, Statistics, Mathematics, and the director of Data Science.
- Wrote the appropriate proposal to establish the unit, as agreed upon in the MOU. The proposal was ultimately signed by the URI President on February 22, 2021.
- Wrote and had approved the appropriate changes to the BA, BS, and minor, as agreed upon in the MOU. This proposal was ultimately signed by the URI President on April 19, 2022.
- Formulated and convened the undergraduate and graduate committees, as agreed upon in the MOU. Met monthly with the executive committee since January 2021 - May 2023
- Advised all Data Science majors who matriculated in A&S and supervised 29 internships.
- Coauthored the new webpage for data science.
- Developed, established, and managed the [Online Graduate Certificate in Data Science](#). Launched in Summer 2021. Applied for seed grant, which was awarded in Sept 2020.
- Developed, established, and managed the [Online Masters of Science in Data Science](#) that includes modules in data science ethics across all courses. Launching in Fall 2023.

- Developed and teach two courses for the online programs: DSP 553: Mathematical Methods in Data Science and DSP 563: Applied Mathematics in Data Science.
- Worked closely with URI Online to: improve marketing, run webinars to attract students, develop recruitment strategies, and make recommendations about individual students.
- Convened a working group to gauge interest in a PHD in Data Science.
- Worked with URI Online and faculty in pharmacy to develop the Online Masters in Health Outcomes and Data Analytics that combines two online certificates, one of which is the Graduate Certificate in Data Science. Approved May 2023.
- Worked with URI Online and faculty to create the Online Masters of Professional Studies (MPS) that combines the students' choices of two online certificates. Approved May 2023..
- Worked with a team to develop three 1-credit courses: DSP 101: Excel Data Analysis for Everyone, DSP 102: Power BI Data Analysis for Everyone, DSP 103: Introduction to R for Everyone. This is part of an effort to provide students from across all disciplines in A&S with some data analysis skills.

Associate Dean, College of Arts and Sciences (7/1/2014 – 6/30/2019)

The University of Rhode Island, founded in 1892, is a high research, public land grant university with approximately 17,000 students. The College of Arts and Sciences has 350 FTE faculty members and offers 43 undergraduate and 15 graduate programs to 4,600 students. The College has departments in the Humanities, Social Sciences, Fine Arts and Design, Communication & Media Studies, and Physical and Computational Sciences. Performed all aspects of running the College, including academic program review, strategic planning and resource allocations, faculty hiring, budgetary consultation, research support, curriculum, and new programs. Led college committees: Diversity; Research, Scholarship, and Creative Works; Ethnic Studies; Teaching Assistant Reallocation Committee; Curriculum Committee; and Student Success in Gateway Courses. Liaised with other units in the University, including the Office for Research and Economic Development, Living-Learning Communities, and the Social Science Institute for Research Education and Policy. Primary responsibilities included, providing leadership to the departments that I supervise, including chairperson appointments, scheduling and seat management, workload, space and maintenance needs, conflict resolution, and faculty performance evaluation.

Fellow, American Council on Education (ACE) (7/1/2012 – 6/30/2013)

Member class of 2012-2013. The American Council on Education is the most visible and influential advocacy group for higher education in the US. The ACE Fellows Program prepares future leaders in higher education. Full year at the California State University, San Jose, under the mentorship of President Mohammad Qaoumi and Provost Ellen Junn. Projects: explore a wide range of leadership strategies; uses of technology to improve access, affordability and academic quality; ways and means of attaining private funding; and structures of math and science centers. Played a role in the MOOC experiments centered at San Jose in “The year of the MOOCs” in collaboration with Sabastian Thrun of Udacity. During the year, all 50 class members and leaders gathered for retreats and site visits. Visited and met with leadership of 21 Universities in the US and Mexico, to compare and contrast strategies used to fulfill the mission of higher education and learn about all aspects of running a university. Attended meetings of the California State System

Board of Governors, Council of Presidents, and Council of Faculty Senate Leaders. Attended conferences of the Association of Public Land-grant Universities (APLU), ACE, and American Association of Colleges and Universities (AAC&U).

Received certification by the Society for College and University Planning (SCUP) in three-step program for aligning institutional planning with resources and creating a process for continual renewal of vitality for the institution.

Collaborations - White papers

- Mohammad Qayoumi, Kimberly Polese, Nancy Eaton, Maureen Scharberg, Jennifer Summitt. (2013). *Are We Innovation-Ready? A Bold New Model for Higher Education*. Published Online: California State University San Jose, Office of the President.
- Mohammad Qayoumi, Kimberly Polese. (2012). *Reinventing Public Higher Education: A Call to Action*. Published Online: California State University San Jose, Office of the President. (Special thanks to Ellen Junn, Bill Nance, Maureen Scharberg, Jennifer Summit and Nancy Eaton)

Chairperson, Department of Mathematics (5/25/2008 – 6/30/2014)

Supervised members of the Mathematics Department including, 14 tenure-track faculty members, six full-time lecturers, 14 teaching assistants, one administrative assistant, and one IT person. The math department grants two bachelor-level degrees, the B.A. and B.S. and two graduate-level degrees, the M.S. and Ph.D., and serves over 120 undergraduate and approximately 25 graduate majors. Major accomplishments include: revision and strengthening of the Ph.D. program, adding a track in applied mathematics; development of a committee made up of the coordinators of Gateway Courses to oversee courses that are essential for success in STEM disciplines; revision of the general education offerings; implementation of new course offerings for the summer PREP Program for Talent Development scholars; development of a placement exam for entry into calculus courses; development of new courses designed to broaden skills of students who lack preparatory skills for calculus; and outreach to other departments and units within the University to promote student success and retention in all majors.

Chairperson, Faculty Senate (1/1/2011 – 5/25/2012)

Elected by the faculty to be a member of the Faculty Senate Executive Committee in May 2009, Vice Chair in May 2010, and Chair in December 2010, serving as chair for three semesters. This was a period of transition in leadership at URI. Developed shared governance, culture of service, and culture of community as guiding themes. With a new administration (president and provost) came a new opportunity for developing transparency and trust. President Dooley and Provost DeHayes recognize the changing tide in higher education and inspired me to become actively engaged in upper level administration, where opportunities exist for participation in the shaping of the new culture of inclusiveness and student and faculty engagement in research in emerging fields of great societal needs.

Chair, The Collaboration for Explorations in Mathematics and Sciences (CEMS) (9/1/2009-5/25/2015)

CEMS was developed to address mathematics and sciences learning at the University of Rhode Island, with a vision to foster inclusive excellence and achievement in STEM related courses, making URI a model for effectively attracting and preparing students for success in a 21st century workforce and society. The founders are Nancy Eaton, Joan Peckham, David Byrd, and David Hayes. Nancy Eaton chaired the CEMS Advisory Committee since its inception in 2009 and was the lead author on the proposal for a three-year planning grant, which was funded at the level of \$150,000 per year, from the URI Vice President of Academic Affairs and Provost (January 2012 - December 2014).

PI, Scholarship Program to Increase Numbers and Strengthen the Workforce in Technology and Mathematics (SPIN+) (3/30/2013-3/30/2019)

SPIN+ was a grant from the NSF Program - Scholars in Science, Technology, Engineering and Mathematics (S-STEM). The \$640,000 grant (NSF Award Number: 1259473) was awarded in 2013. SPIN+ is a comprehensive program that is designed to enhance the academic experience and create a sense of community for high achieving scholars from underrepresented groups in Computer Science, Computer Engineering, and Mathematics through offering tuition scholarships, book scholarships, mentoring, attentive faculty advisors, and professional development opportunities. PI N. Eaton with 3 co-PIs.

SCHOLARLY RESEARCH IN MATHEMATICS

Research Area

- Combinatorics with an emphasis in Graph Theory
Dissertation: *Some Results in Graph Ramsey Theory and Graph Representations* – Ph.D. Advisor: Vojtěch Rödl, Emory University (1989-1992)

Peer Refereed Papers in Professional Research Journals (Google Scholar: 367 Citations, 77 since 2018)

1. Eaton, N. & Rödl, V. (1992). A canonical Ramsey theorem. *Random Structures and Algorithms*, 3(4), 427-444.
2. Eaton, N. & Rödl, V. (1996). Graphs of small dimensions. *Combinatorica*, 16(1), 59-85.
3. Eaton, N., Gould, R., & Rödl, V. (1996). On p-intersection representations. *Journal of Graph Theory*, 21(4), 377-392.
4. Eaton, N. & Grable, D. (1996). Set representations for almost all graphs. *Journal of Graph Theory*, 23(3), 1-12.
5. Eaton, N. (1997). Intersection representations of complete unbalanced bipartite graphs. *Journal of Combinatorial Theory Series B*, 71(2), 123-129.
6. Eaton, N. (1998). Ramsey numbers for sparse graphs. *Discrete Mathematics*, 185, 63-75.
7. Eaton, N. & Hull, T. (1999). Defective list colorings of planar graphs. *Bulletin of the Institute of Combinatorics and its Applications*, 24, 79-87.
8. Eaton, N. (2000). A near packing of two graphs. *Journal of Combinatorial Theory, Series B*, 80(1), 98-103.
9. Eaton, N., Czygrinow, A, Hurlbert, G H, & Kayll, P M (2002). On pebbling threshold functions for graph sequences. *Discrete Mathematics*, 247(1 - 3), 93-105.

10. Eaton, N., Furedi, Z., Kostochka, A., & Skokan, J. (2007). Tree Representations of $K_{n,n}$. *European Journal of Combinatorics*, 28(4), 1087-1098.
11. Eaton, N. & Faubert, G. (2007). Caterpillar Tolerance Representations of Cycles. *Bulletin of the Institute of Combinatorics and its Applications*, 51, 80-88.
12. Eaton, N. & Tiner, G. (2010). On the Erdős-Sós Conjecture and graphs with large minimum degree. *Ars Combinatoria*, 95, 373-382.
13. Eaton, N. & Faubert, G. (2012). Caterpillar Tolerance Representations. *Bulletin of the Institute of Combinatorics and its Applications*, 64, 109-117.
14. Barbato, M. A. & Eaton, N. (2012). $K_{1,3}$ -subdivision Tolerance Representations of Cycles. *Bulletin of the Institute of Combinatorics and its Applications*, 65.
15. Eaton, N. & Tiner, G. (2013). On the Erdős-Sós Conjecture for Graphs Having No Paths with $k+4$ Vertices. *Discrete Mathematics*, 313, 1621-1629.
16. Barbato, M. A. & Eaton, N. (2018). $K_{1,3}$ -Subdivision Representations with Tolerance 1 and 2. *Bulletin of the Institute of Combinatorics and its Applications*, 82, 21-29.
17. Armstrong, A., Eaton, N. (2020). New restrictions on defective coloring with applications to steinberg-type graphs. *Journal of Combinatorial Optimization*.
<https://doi.org/10.1007/s10878-020-00573-5>
Published April 25, 2020.

- *Technical Reports, Other*

1. Eaton, N. & Rödl, V. (1992). A regularity lemma. *Emory University Technical Report Series*.
2. Eaton, N., Gould, R., & Rödl, V. (1992). On p -intersection representations. *Emory University Technical Report Series*.
3. Eaton, N., Kook, W., & Thoma, L. (2003). Monotonicity For Complete Graphs and Symmetric Complete Bipartite Graphs. Unpublished.
4. Eaton, N., Kook, W., & Thoma, L., (2004). Number of Spanning Trees in the Complete Graph on n nodes minus an edge. *The Online Encyclopedia of Integer Sequences*, A071720, A089104.

Collaborations - White papers

- Mohammad Qayoumi, Kimberly Polese, Nancy Eaton, Maureen Scharberg, Jennifer Summitt. (2013). *Are We Innovation-Ready? A Bold New Model for Higher Education*. Published Online: California State University San Jose, Office of the President.
- Mohammad Qayoumi, Kimberly Polese. (2012). *Reinventing Public Higher Education: A Call to Action*. Published Online: California State University San Jose, Office of the President. (Special thanks to Ellen Junn, Bill Nance, Maureen Scharberg, Jennifer Summitt and Nancy Eaton)

Research in Progress

1. Eaton, N., Gilbert, A., & Heissan, A. M. (2013). 4-Coloring Coils.
2. Eaton, N. & Gilbert, A. (2013). On A Characterization of K_4 Subdivisions.
3. Eaton, N. & Heissan, A. M. (2013). Path Representations of Graphs.

Major Professor for Ph.D. Students

1. Thomas Hull • 1997 • *Some Problems In List Coloring Bipartite Graphs* • Professor, Professor Western Connecticut State University
2. Mary Ann (Saadi) Barbado • 2001 • *Some Results On Tree Tolerance Representations* • Professor and Department Chair, Fitchburg State University
3. Glenn Faubert • 2005 • *Caterpillar Tolerance Representations Of Graph* • Lecturer/Part-time instructor, URI Department of Mathematics
4. Gary Tiner • 2007 • *On The Erdos-Sos Conjecture* • Professor, Faulkner University
5. Mia Hessian • 2013 • *Some Results In Graph Representations And Graph Colorings* • Associate Professor at Manhattanville College
6. Adam Gilbert • 2013 • *Some Results On Graph Representations And Closure Systems* • Associate Professor at Southern New Hampshire University
7. Caitlin (Phifer) Krul • 2014 • *The Cycle Intersection Matrix And Applications To Planar Graphs And Network Theory* • Assistant Professor at Worcester State University (Joint with Professor Woong Kook)
8. Diana Smith • 2014 • *Towards Steinberg's Conjecture* • Assistant Professor at the New England Institute of Technology
9. Addie Armstrong • 2016 • *Coloring Planar Graphs with no 4-Cycles, 5-Cycles, or Certain Other Small Faces* • Assistant Professor at Norwich University

Current Graduate Committee Work:

1. Hannah Leopold-Brandt, Mathematics Masters - Advisor
2. John Jones, Mathematics PhD - Doctoral Committee
3. Lilith Wagstrom, Mathematics PhD - Co-Advisor
4. Scott Destromp, Mathematics PhD - Advisor

Professional Memberships:

- AMS: American Mathematical Society
- SIAM: Society for Industrial and Applied Mathematics
- MAA: Mathematical Association of America

Conference Presentations – selected (2005-2017)

2016

Joint Mathematics Meetings: *On Three-Coloring Planar Graphs Containing No Chained Triangles*. Addie Armstrong (presenter) & Nancy Eaton, University of Rhode Island

2015

Mathematical Association of America, Sectional Meeting & Brown University Symposium for Undergraduate Research in the Mathematical Sciences): *Sidon Sequences and Magic Numbers for Complete Graphs*. Jake Smith (undergraduate student presenter), Addie Armstrong (advisor), Nancy Eaton (advisor)

2014

Southeastern International Conference on Combinatorics, Graph Theory & Computing: *$K_{1,n}$ -subdivision Tolerance Representations of Cycles*. Adam Gilbert (presenter), Northeastern

University & Nancy Eaton, University of Rhode Island

- 2013
Joint Mathematics Meetings: A Remediation Program for Calculus: Initial Findings. Caitlin Phifer (presenter) & Nancy Eaton
- 2013
Joint Mathematics Meetings: *On the Erdős-Sós Conjecture for graphs having no path with $k+4$ vertices*. Gary Tiner (presenter), Faulkner University & Nancy Eaton, University of Rhode Island
- 2008
No Teacher Left Behind II, Brown University: *Advanced Viewpoints of Mathematics in the High School Classroom*. Joint presentation with Lewis Pakula.
- 2007
Discrete Mathematics Day, Middlebury College, Ripton VT: *Planar graphs and list coloring*. Nancy Eaton (invited talk)
- 2005
Cumberland Conference, Emory University, Atlanta GA: *On the Erdős-Sós Conjecture*. Nancy Eaton (invited talk)
- 2005
Discrete Mathematics Day, Worcester Polytechnic Institute, MA: Graphs representable by Caterpillars. Nancy Eaton (invited talk)

EXTERNAL GRANT APPLICATIONS

External grants awarded

NSF Program - Scholars in Science, Technology, Engineering and Mathematics (S-STEM). PI, along with three co-PIs, on a grant from the The \$640,000 grant (NSF Award Number: 1259473) was awarded in 2013 and ended in 2019.

NSF Grant for Seminars and Conferences, DMS-9625446, Combinatorists of New England (CONE), Series of one day meetings held at Smith College;

NSF Research Planning Grant, DMS-9310064, Representations of graphs by sets, 1995

NSF Sponsored Summer Internship Program, Honorary Fellow, The Center for the Mathematical Sciences, University of WI, Madison, summer workshop

External grant proposals - unfunded

- National Science Foundation Research Traineeship Program (NSF-NRT). Title: Graduate Research in Data-enabled Sciences (GRIDS). The heart of the program is an innovative approach for creating synergies among researchers in data science and other scientific fields to support novel discoveries from data. Collaborators: Nancy Eaton (PI), Abdeltawaby Hendawi (co-PI), Cara Mitnick (co-PI), Rachel Schwartz (co-PI), and Yang Chen (co-PI). Applied Feb 5, 2020. NSF declined to support the proposal.

- DOE First in the World: Expanding Horizons: Facilitating Interest, Readiness, and Success in Technology and Science, Nancy Eaton (Co-PI) 2014
- NSF IUUSE: Collaborative Research: Instructional Reform for Equity and Success in STEM. Nancy Eaton (Co-PI) 2013
- Howard Hughes Medical Institute (HHMI) Proposal – Students Engaged and Advanced in Science, Technology, Engineering, and Math. (5-yr \$2.5M) Nancy Eaton (PI), Gail Scowcroft (Co-PI) 2013
- NSF: STEP - University Initiative to Transform Education in STEM (UNITED STEM) Co-PIs Nancy Eaton, Joan Peckham, David Byrd, and Jessica Libertini. 2012.
- Department of Education – Graduate Assistants in Areas of National Need (GAANN) Nancy Eaton (PI). 2010.

WORKSHOPS, CONFERENCES, TRAININGS (RECENT SELECTIVE)

2023

EdX course: Statistical Learning. August.

The N-Word in Modern Context: A Workshop, URI College of Arts and Sciences. Jan. 18, 2023.

Dr. Carla Brodley on integrative degrees. URI College of Arts and Sciences. Jan. 10th.

2022

Workshop: Emotional Intelligence, Radical Candor, and Challenging Conversations, URI. Dec.14th.

Open Data Institute (ODI) Summit 2022 - Data Decade: The essential data conference, Nov. 8th.

SIAM Conference on Mathematics of Data Science (MDS 22). Sept 26th - Sept 30th.

RI Regional AI and Data Science Meeting - and helped organize. September 16.

URI Online Design Course Training and course creation. 25th - March 14th.

Data Camp, R intermediate and advanced. June.

URI Advancement in Teaching and Learning. Ethics Throughout the Curriculum Workshop.

Open Data Science Conference (ODSC) East. April 19th - April 21st.

2021

RI-AI Meetup, Exploring Evidence: Ethics and AI - Online Workshop Series, Nov 17, Nov 30, Dec 1.

RI-AI Meetup, Machine Learning 101, November 28th.

MAA Mathfest. August 4th - August 7th.

Institute for Computational and Experimental Research in Mathematics (ICERM) - Advanced workshop in Data Science for Math faculty. June 28th - July 2nd.

RI Regional AI and Data Science Meeting - and helped organize. May 14th.

5th Annual URI Teaching and Learning Showcase. April 9th. Gave a presentation.

URI Online Design Course Training and course creation. Jan 25th - March 14th.

Computing in the Statistics and Data Science Curriculum, Jan. 26th.

Python Fundamentals - video series by Paul Deitel, January

2020

UVA School of Data Science Presents: Datapalooza 2020, Nov. 13th

UVA School of Data Science First Fridays: The Conscience of the Data Scientist, Nov 6th

ASDA: Data Science Leadership Summit, Oct. 12th - Oct. 16th

RI- AI Meetup: Data Ethics related to COVID-19, June 11

2019

URI - FM Global visit to exchange information about internship and co-op opportunities, Nov 18.
NESS - Next Gen Data Science Day, Nov 16.
Coursera course: Data Science Specialization, Fall

TEACHING

Spring 2024

MTH 307: Introduction to Mathematical Rigor
MTH/CSC 447: Discrete Structures
DSP/AMS 563: Applied Mathematical in Data Science - Asynchronous Online

Fall 2023

MTH 180: Math Tools for Computing
MTH 307: Introduction to Mathematical Rigor
DSP/AMS 553: Mathematical Methods in Data Science - Asynchronous Online
MTH 599: Master's Thesis Research

Summer 2023

CSC 499: Project in Computer Science (supervision of internships)
AMS/DSP 553: Mathematical Methods in Data Science - Asynchronous Online

Spring 2023

MTH 307: Introduction to Mathematical Rigor
CSC 499: Project in Computer Science

Courses taught Spring 2019 - Fall 2022

MTH 307: Introduction to Mathematical Rigor (Fall '22, Spring '22, Spring '21, Fall '20, Spring '20, Fall '19)
AMS/DSP 553: Mathematical Methods in Data Science (Fall '22, Summer '22, Fall '21)
MTH/CSC 447: Discrete Structures (Fall '21)
CSC 340: Applied Combinatorics (Spring '20, Fall '19, Spring '19)
CSC 499: Project in Computer Science (internships) (J '20, S '20, F '20, Sp '21, F '21, S '22, Su '22, F '22)

Courses taught Prior to Fall 2014

MTH 107: Introduction to Finite Math
MTH 108: Topics in Mathematics
MTH 111: Precalculus
MTH 131: Applied Calculus I
MTH 132: Applied Calculus II
MTH 141: Calculus I
MTH 142: Calculus II
MTH 215: Linear Algebra
MTH 243: Calculus III
MTH 307: Introduction to Mathematical Rigor
MTH 382: Number Theory
MTH 399: Undergraduate Seminar
MTH 420: Re-Examining Mathematical Foundations for Teachers
MTH/CSC 447: Discrete Mathematical Structures

MTH 451: Introduction to Probability and Statistics
MTH 513: Linear Algebra
MTH/CSC 547: Combinatorics
MTH/CSC 548: Graph Theory
MTH 591/592: Special Problems - Graph Theory
MTH 599: Master's Thesis Research
MTH 691/692: Special Topics I in Graph Theory
MTH 699: Doctoral Dissertation Research
CSC 340: Applied Combinatorics

SERVICE

Recent Service

Service to the Department of Mathematics (2019-2023):

- Coordinator for Advising of Math Majors (Fall 2023 - present)
- Technology Committee (Fall 2023 - present)
- Co-Chair Tenure-track Search - Applied Mathematics with specialty in Biological Sciences (Fall 2023 - Spring 2024)
- Chair Tenure-track Search Committee - Data Science (Fall 2022 – Spring 2022)
- Chair Tenure-track Search Committee - Math SOTL (Fall 2021 – Spring 2022)
- Member Tenure-track Search Committee - Applied Math (Fall 2021 – Spring 2022)
- Member Academic Program Review Committee (Spring 2022)
- Member Math Department Undergraduate Committee (2021-2023)
- Member Math Department Graduate Committee (2019-2021)

University Service:

- Chair Administrative Review Committee - Dean DeBoef (2024)
- Faculty Senate Member (5/8/2020 – 5/7/2023)
- Chair Center Review subcommittee of the FS Committee on Research and Creative Activities (9/2020 – 5/2023)
- Member Administrator Review - Dean Riley (2023)
- Member the IT Research Computing Services Advisory Council (2019 – 2022)
 - Search Committee for Data Science Consultant (Summer 2021)
 - Chair of Search Committee for Director of IT Research Computing Services (2019)
- Member of IT Gov (a presidential committee) (Spring 2020-2022)
- Member TD planning committee for new structure: TD STEM Academy. (December 2020 - July 2021)

Service to the Program of Data Science (2017-present):

- Member of the Data Science Graduate Committee (Fall 2023 - present)
- Director of Data Science (2020-2023) (Interim since 2019)
 - MOU between MTH Dept, CS/Sta Dept, CAS Dean to establish joint leadership of DS
 - Proposal to establish the Data Science Program as an independent unit within A&S, governed by two departments: MTH and CS/STA (Fall 2021)
 - Co-authored. *URI Data Commons: A Center for training, supporting, and convening students,*

educators, practitioners, and scholars around data. February 2022.

- Director Online Graduate Certificate in Data Science
 - Seed Grant (Summer 2020)
 - Program proposal including 5 new courses (Fall 2020)
 - Developed AMS/DSP 553: Mathematical Methods in Data Science, Asynchronous online (Spring 2021)
 - Program start (Summer 2021)
- Director of Online Masters in Data Science
 - Seed Grant (Fall 2021)
 - Program proposal including 7 new courses (Spring 2022)
 - Developed DSP 563: Applied Mathematics in Data Science, Asynchronous online (Spring 2022)
 - Created Data Science Ethics Modules for the 7 new courses
 - Program start (Fall 2023)

Service to the Program of Data Science (2017-present):

- Academic Program review for Iowa State University, Dept of Mathematics (March 2024)

Other Past Committee work (selective)

- Member of the Academic Enhancement Center (AEC) Learning Advisory Board (2018 – 2022)
- Search Committee member for Assistant Professor of Physics/Quantum Computing (Fall 2019)
- New faculty mentor, Vanita Srinivasa - 2020-2021
- Member of the Talent Development Scholar Success Executive Committee & Communications subcommittee (2017 – 2019)
- Chair & developer: CAS Student Success in Gateway Courses Committee (2018-2019)
- Chair & developer: CAS Task Force on Graduate Teaching Assistant Reallocation (2018 – 2019)
- Chair: CAS Diversity Committee (2018 – 2019)
- Chair: CAS Research, Scholarship, and Creative Works Committee (2018-2019)
- Gateway to Completion - Administrative Advisory Board (2013 – 2016)
- Joint Committee on Academic Planning (2010 – 2011) and (2016 – 2018)
- College of Arts and Science Curriculum Committee (Many years, Chair from 2014-2018)
- 2010-2015 & 2016-2021 Academic Plan working groups
- Faculty Senate Vice Chair Elect (2013 - 2014)
- Faculty Senate Executive Committee (2009 – 2012, Chair: spring 2011, fall 2011, spring 2012)
- General education program development - Subcommittee (2013 – 2014)
- Strategic Budget Planning Committee (2011-2012)
- Enrollment Management and Retention Committee (2010 – 2012)
- Graduate Council & Curriculum Subcommittee (2010 – 2012)
- Search Committee for Vice Provost for Enrollment Management (2010)
- Administrator Review (2013, 2021)