Gregory Bell

Dean of Graduate Education & Professor of Mathematics

Education

2002 **PhD**, *University of Florida*, Gainesville, FL.
Dissertation: Asymptotic Dimension of Groups. Advisor: Alexander Dranishnikov

1999 **MS in Mathematics**, *University of Florida*, Gainesville, FL.

1997 **BS in Mathematics**, *University of Florida*, Gainesville, FL.
with honors

Administrative Positions

2021–present **Dean**, *The Graduate School*, University of North Carolina at Greensboro, Greensboro, NC. (Interim Dean 2021–2023).

In this position, I serve over 3500 graduate students and over 700 Graduate Faculty at a public R2 university. As dean, I have primary responsibilities over all graduate matters at the university. My office has 15 full-time staff and I am responsible for a total budget of approximately $10m. In this role, I continue to perform the duties of my previous Associate Dean position, which was folded into the dean role. Major accomplishments include:

- **Navigating Change** In 2022, I undertook the first large reallocation of tuition waivers at UNCG since 2007 using a collaborative, data-driven approach. Between 2022 and 2024, I helped with the university's academic portfolio review. I have driven several policy changes aimed at student success challenges, especially as we emerge from the pandemic.
- **Innovation** I began several data-driven initiatives to strategically increase stipends and provide scholarships to graduate students by redirecting historically underutilized funding. I also used this funding to hire graduate students to serve as program ambassadors, increasing engagement with prospective students.
- **Communication** I work with unit deans, associate deans, and faculty to gather feedback or data and build consensus before making decisions. I changed several standing meetings to make them more effective. I provided useful data and several new reports to facilitate recruitment work across the university.

2017–2021 **Associate Dean**, *The Graduate School*, University of North Carolina at Greensboro, Greensboro, NC.

In this position, I served over 3500 graduate students at a public R2 university. My primary responsibilities in this role were centered around student engagement and professional development. I

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supervised one direct report and had primary responsibility for a budget of approximately $20,000. Major accomplishments included:

- **Graduate Student Association** As the primary advisor of this student organization, I worked collaboratively with Student Affairs to: create a week-long Graduate Student Appreciation Week at UNCG; increase engagement in social events from several dozen to over 300, streamline and reconfigure travel and research award processes; increase GSA leadership engagement with university-wide initiatives.
- **Research Competitions** I hosted the UNCG Three-Minute Thesis (3MT) competition and the Graduate Research and Creativity Expo. As host, I brought high-profile visitors (local and state politicians, supporters, alumni, business owners, etc) to campus to serve as judges. Distributed over $17,000 in prizes annually. With the Libraries, I co-created a research competition called Webinars Worth Watching to provide a research competition opportunity that included online students. I traveled to the North Carolina General Assembly annually taking graduate students to meet one-on-one with state legislators.
- **Graduate Teaching Associate Training** I overhauled the training, incorporating several offices from across campus into a rich, asynchronous virtual experience followed by a day-long in-person training for all new graduate student teachers.
- **Service to the Profession** I served as Secretary of the North Carolina Council of Graduate Schools and I served as a Member of the Audit Committee of the Council of Southern Graduate Schools.

2011–2017 **Director of Graduate Studies**, *Department of Mathematics and Statistics*, University of North Carolina at Greensboro, Greensboro, NC.

In this position, I served as the departmental representative for the graduate programs in the Department of Mathematics and Statistics. My work included admissions, advising, allocating funding, facilitating curriculum changes, and enforcing department and Graduate School policy. Major accomplishments included:

- **Enrollment** Graduate enrollment increased from 22 (Fall 2011) to 41 (Fall 2016).
- **Recruitment** I recruited students nationally and regionally at graduate fairs and by delivering talks to groups of undergraduate students. I leveraged assistantships and waivers to attract students to attend UNCG.
- **Reporting** I was the primary contact for the assessment of our graduate programs, which included establishing goals, metrics, and targets, as well as reporting findings.

Academic Positions

2020–Present **Professor**, *Department of Mathematics and Statistics*, University of North Carolina at Greensboro, Greensboro, NC.

2013 **New Directions Professor**, *Institute for Mathematics and its Applications*, University of Minnesota, Minneapolis, MN.
Sept. 2013–Dec. 2013

2011–2020 **Associate Professor**, *Department of Mathematics and Statistics*, University of North Carolina at Greensboro, Greensboro, NC.

2005–2011 **Assistant Professor**, *Department of Mathematics and Statistics*, University of North Carolina at Greensboro, Greensboro, NC.

2003–2005 **VIGRE Chowla Postdoctoral Position**, *Department of Mathematics*, Penn State University, University Park, PA.

2002–2003 **Visiting Assistant Professor**, *Department of Mathematics and Statistics*, University of Louisville, Louisville, KY.
Aug. 2002–May 2003

Service

Graduate Education Leadership

2024–2026 **President-Elect/President/Past-President**, *North Carolina Council of Graduate Schools*.

2024–2026 **Member**, *Conference of Southern Graduate Schools Nominating Committee*.

2020–2023 **Seceretary**, *NC Council of Graduate Schools*.

2020–2023 **Member**, *Conference of Southern Graduate Schools Audit Committee*.

Graduate Conference Presentations

2023 **Keynote: Unleasing the Power of ChatGPT: Conversations in the Age of AI**, *North Carolina Council of Graduate Schools*, Joint with Andrew Hamilton, UNC Greensboro and Stephanie Schmitt, UNC Chapel Hill.
Greensboro, NC

2023 **Presenter: The Power of Working Together: The Process of Reallocating Tuition Waiver Dollars at UNCG**, *North Carolina Council of Graduate Schools*.
Greensboro, NC

2023 **Presenter: Creating Community in Online Doctoral Programs**, *Conference of Southern Graduate Schools*.
Tampa, FL

2022 **Panelist: Envisioning the Future of "Student Affairs" for Graduate Students**, *NC Council of Graduate Schools*.
Wilmington, NC

Mathematical Service

Referee Fundamenta Mathematicae; Groups, Geometry and Dynamics; Fuzzy Sets and Systems; International Journal of Algebra and Computation; Proceedings of the AMS; Rad HAZU; Topology and its Applications; Topology Proceedings; Transactions of the AMS; Tsukuba J. of Mathematics.

Reviewer Zentralblatt and MathSciNet

2015 **Session Chair**, *UNCG-RMSC*.
Greensboro, NC

2014 **Local Organizer**, *AMS Sectional Meeting*.
Greensboro, NC

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2010 **Session Organizer**, *Spring Topology and Dynamical Systems Conference*. Starkville, MS

2006 **Local Organizer**, *Spring Topology and Dynamical Systems Conference*. Greensboro, NC

Service to the University

2021 Chair of Provost Search

2021 Co-Chair of Associate Dean of the Joint School of Nanoscience and Nanoengineering Search

2021 Spaces and Places for Student Success Taskforce

2021 Technology Change Management Advisory Team

2020 Search Committee: Associate Provost of International Programs

2020 McNair Scholar Selection Committee

2020 Title IX Revision Taskforce

2020 Research Excellence Award Committee

2019–2022 Chapter President of the Honor Society of ΦΚΦ, Chapter 352

2022–present Chapter Past-President of the Honor Society of ΦΚΦ, Chapter 352

2019 Career and Professional Development Etiquette Dinner Table Host

2018 Search Committee: Graduate School Director of Marketing

2018 Search Committee: Graduate School Director of Budget, Personnel, and Planning

2017 Chair of Search for Director of International Recruitment

2017–present Graduate Council (ex-officio)

2017–2018 Committee on Committees

2014–2020 Faculty Government Committee (chair 2015-17)

2012–2013 Provost's Enrollment Planning Council

2012–2013 Graduate Studies Committee – Faculty Senate Liaison

2012–2017 Faculty Senate

Service to the College of Arts and Sciences

2017–2018 College Budget and Planning Committee

2016–2019 Chair-Elect/Chair/Past-chair of the College Assembly

2011–2017 Freshman Seminars Committee

2009–2011, 2016–2017 Curriculum and Teaching Committee

Service to the Department

2019–2020 Assistant Professor Search (chair)

2016–2017 Assistant Professor Search (chair)

2014–2016 Personnel Committee (chair from 2015)

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2012–2017 Diversity Committee (chair)
2012–2013 Mathematics Search Committee
2012–2013 Evaluation of Classroom Teaching Committee
2011–2017 Graduate Studies Committee (chair)
2011–2013 Personnel Committee (chair from 2012)
2011–2017 Graduate Assessment Committee
2011–2017 Chair's Advisory Committee
2011–2017 Mentoring Assistant Professors
2011–2012 Computational Mathematics Lecture Series Committee
2011–2017 Analysis Qualifying Exam Committee Member
2014–2015 Linear Algebra Qualifying Exam chair
2010–2016 Topology Qualifying Exam chair
2010 GMT Syllabi for MAT 112, FMS 195
2008–2011 Course Coordinators
2007–2012 Seminars and Colloquia Committee
2007–2010 iSchool
2007–2010 Undergraduate Assessment
2007–2009 Personnel Committee
2005–2014 State Math Contest (chair 2006–2010)
2005–2011 Library Liaison

Other Service

2012–2013 IMA PIC/IAB Meeting
2007–2008 Post-Secondary Outreach Committee

Workshops and Trainings

2022 Skillsoft: Establishing Effective Virtual Teams
2021 UNCG Personal Skills for a Diverse Campus
2021 QPR Suicide Prevention Gatekeeper Program
2021 EducationAdminWebAdvisor: How to Respond to Racism From Students and Faculty: A Series of Case Studies
2020 Dana Center FOCI: Creating Effective Learning Experiences at a Distance: Fostering a community of engaged learners in a virtual environment.
2020 Ready to Teach certificate
2020 Growing with Canvas
2020 Skillsoft Level 1: Python Novice
2019 SuperVISION Certificate
2019 DiversityEDU: Personal Skills for a Diverse Campus

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2019 Purposeful Leadership: Crucial Conversations

2015 UNCG LGBTQIA+:SafeZone Training

Publications

Greg Bell, Austin Lawson, Neil Pritchard, and Dan Yasaki. "An exploration of Nathanson's g-adic representations of integers". In: *Involve, A Journal of Mathematics* 15-5 (2022), pp. 727–738.

Greg Bell, Austin Lawson, Neil Pritchard, and Dan Yasaki. "The space of persistence diagrams fails to have Yu's property A". In: *Topology Proc.* 58 (2021), pp. 279–288. ISSN: 0146-4124.

G. Bell and A. Lawson. "Coarse free products". In: *Topology Appl.* 275 (2020), pp. 107150, 11. ISSN: 0166-8641. DOI: 10.1016/j.topol.2020.107150. URL: https://doi-org.libproxy.uncg.edu/10.1016/j.topol.2020.107150.

G. C. Bell and A. Nagórko. "A construction of Nöbeling manifolds of arbitrary weight". In: *Fund. Math.* 250.3 (2020), pp. 227–242. ISSN: 0016-2736. DOI: 10.4064/fm488-10-2019. URL: https://doi-org.libproxy.uncg.edu/10.4064/fm488-10-2019.

G. C. Bell and A. Nagórko. "Local k-connectedness of an inverse limit of polyhedra". In: *Fund. Math.* 250.3 (2020), pp. 211–225. ISSN: 0016-2736. DOI: 10.4064/fm489-10-2019. URL: https://doi-org.libproxy.uncg.edu/10.4064/fm489-10-2019.

G. Bell, D. Głodkowski, and A. Nagórko. "Decomposition theorems for asymptotic property C and property A". In: *Topology Appl.* 256 (2019), pp. 248–261. ISSN: 0166-8641. DOI: 10.1016/j.topol.2019.02.013. URL: https://doi.org/10.1016/j.topol.2019.02.013.

G. Bell and A. Lawson. "Coarse direct products and property C". In: *Topology Proc.* 53 (2019), pp. 201–207. ISSN: 0146-4124.

G. Bell, A. Lawson, J. Martin, J. Rudzinski, and C. Smyth. "Weighted persistent homology". In: *Involve, a Journal of Mathematics* 12.5 (2019), pp. 823–837. DOI: 10.2140/involve.2019.12.823.

G. C. Bell and A. Nagórko. "On stability of asymptotic property C for products and some group extensions". In: *Algebr. Geom. Topol.* 18.1 (2018), pp. 221–245.

G. Bell. "Asymptotic dimension". In: *Office hours with a geometric group theorist*. Princeton Univ. Press, Princeton, NJ, 2017, pp. 219–236.

G. Bell, D. Moran, and A. Nagórko. "Coarse property C and decomposition complexity". In: *Topology Appl.* 227 (2017), pp. 30–50. ISSN: 0166-8641. DOI: 10.1016/j.topol.2016.04.006. URL: http://dx.doi.org/10.1016/j.topol.2016.04.006.

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G. C. Bell and D. S. Moran. "On constructions preserving the asymptotic topology of metric spaces". In: *North Carolina Journal of Mathematics and Statistics* 1 (2015), pp. 46–57. ISSN: 2380-7539.

G. C. Bell and A. Nagórko. "A new construction of universal spaces for asymptotic dimension". In: *Topology Appl.* 160.1 (2013), pp. 159–169. ISSN: 0166-8641. DOI: 10.1016/j.topol.2012.10.016. URL: http://dx.doi.org/10.1016/j.topol.2012.10.016.

G. Bell and A. Dranishnikov. "Asymptotic dimension in Będlewo". In: *Topology Proc.* 38 (2011), pp. 209–236. ISSN: 0146-4124.

G. Bell and A. Dranishnikov. "Asymptotic dimension". In: *Topology Appl.* 155.12 (2008), pp. 1265–1296. ISSN: 0166-8641. DOI: 10.1016/j.topol.2008.02.011. URL: http://dx.doi.org/10.1016/j.topol.2008.02.011.

G. C. Bell and K. Fujiwara. "The asymptotic dimension of a curve graph is finite". In: *J. Lond. Math. Soc. (2)* 77.1 (2008), pp. 33–50. ISSN: 0024-6107. DOI: 10.1112/jlms/jdm090. URL: http://dx.doi.org/10.1112/jlms/jdm090.

G. Bell and A. Dranishnikov. "A Hurewicz-type theorem for asymptotic dimension and applications to geometric group theory". In: *Trans. Amer. Math. Soc.* 358.11 (2006), 4749–4764 (electronic). ISSN: 0002-9947. DOI: 10.1090/S0002-9947-06-04088-8. URL: http://dx.doi.org/10.1090/S0002-9947-06-04088-8.

G. C. Bell. "Asymptotic properties of groups acting on complexes". In: *Proc. Amer. Math. Soc.* 133.2 (2005), 387–396 (electronic). ISSN: 0002-9939.

G. Bell and A. Dranishnikov. "On asymptotic dimension of groups acting on trees". In: *Geom. Dedicata* 103 (2004), pp. 89–101. ISSN: 0046-5755.

G. C. Bell, A. N. Dranishnikov, and J. E. Keesling. "On a formula for the asymptotic dimension of free products". In: *Fund. Math.* 183.1 (2004), pp. 39–45. ISSN: 0016-2736.

G. C. Bell. "Property A for groups acting on metric spaces". In: *Topology Appl.* 130.3 (2003), pp. 239–251. ISSN: 0166-8641.

G. Bell and A. Dranishnikov. "On asymptotic dimension of groups". In: *Algebr. Geom. Topol.* 1 (2001), 57–71 (electronic). ISSN: 1472-2747.

Preprints and Submissions

- G. Bell, A. Nagórko, *Property A and duality in linear programming*. Submitted and posted to Arχiv.
- G. Bell, A. Nagórko, *Detecting topological properties of Markov compacta with combinatorial properties of their diagrams*. Submitted and posted to Arχiv.

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Invited Talks

International and National Conferences and Workshops

Joint Meeting of the AMS and MAA, *Coarse properties of persistence diagrams*, 2020.
Denver, CO

AMS Sectional Meeting, *The space of persistence diagrams has infinite asymptotic dimension*, 2019.
Auburn, AL

UTK Geometric Topology Workshop, *Coarse free products*, 2019.
Knoxville, TN

33rd Summer Conference on Topology and its Applications, *Decomposition theorems for property C and A*, 2018.
Bowling Green, KY

52nd Spring Topology and Dynamical Systems Conference, *Decomposition theorems for property C and A*, 2018.
Auburn, AL

32nd Summer Conference on Topology and its Applications, *On product stability of asymptotic property C*, 2017.
Dayton, OH

Joint Meeting of the AMS and MAA, *Asymptotic Dimension of Groups*, 2017.
Atlanta, GA

Joint Meeting of the AMS and MAA, *Multiscale Persistence*, 2016.
Seattle, WA

38th Annual SIAM SEAS, *Topological Data Analysis and Directed Persistence*, 2014.
Melbourne, FL

28th Summer Conference on Topology and its Applications, *Asymptotic dimension of graph products*, 2013.
North Bay, ON, Canada

Joint Meeting of the Israeli and Polish Mathematical Societies, *On coarse property C*, 2011.
Łódż, Poland

Workshop in Geometric Group Theory, *Property A*, 2011.
Heilbronn Institute, Bristol, England

MAA Math Fest, *An invitation to asymptotic dimension*, 2010.
Pittsburgh, PA

Spring Topology and Dynamical Systems Conference, *The asymptotic dimension of a free product*, 2009.
Gainesville, FL

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43rd Spring Topology and Dynamical Systems Conference, *The asymptotic dimension of a curve graph is finite*, 2006.
Greensboro, NC

International Conference on Geometric Topology, *Some problems in asymptotic dimension theory*, 2005.
Będlewo, Poland

Spring Topology and Dynamical Systems Conference, *Semi-Plenary Talk: Gluing Techniques in Asymptotic Dimension*, 2005.
Rome, Georgia

A Conference in Geometric Group Theory, *A Hurewicz-type theorem for asdim and applications to geometric group theory*, 2004.
Będlewo, Poland

Spring Topology and Dynamical Systems Conference, *A Hurewicz theorem for asymptotic dimension*, 2004.
Birmingham, AL

Coarse Geometry Workshop, *Asymptotic dimension and group actions*, 2004.
Kyoto, Japan

Winter Meeting of the Canadian Mathematical Society, *Growth of asymptotic dimension of groups*, 2004.
Montreal, QC, Canada

Sectional Meeting of the AMS, *A Hurewicz-type theorem for asymptotic dimension*, 2004.
Nashville, TN

19th Annual Conference on Geometric Topology, *Property A for groups acting on metric spaces*, 2002.
Calvin College, MI

Sectional Meeting of the AMS, *On a formula for the asymptotic dimension of amalgamated products*, 2002.
Orlando, FL

UF Year of Emphasis in Topology, *Property A for groups acting on metric spaces*, 2002.
Gainesville, FL

National Meeting of the AMS, *On asymptotic dimension of groups acting on trees*, 2002.
San Diego, CA

Seminars and Colloquia

Vienna Geometry and Analysis on Groups Seminar, *Property A and duality in linear programming*, 2021.
University of Vienna (virtual)

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Pure Maths Colloquium, *Property A and duality in linear programming*, 2021.
University of Southampton (virtual)

ANT-CoG Seminar, *Property A and duality in linear programming*, 2021.
Greensboro, NC (virtual)

Getting to know your department colloquium, *Asymptotic dimension of groups*, 2018.
Greensboro, NC

UNCG REU in Mathematical Biology, *Asymptotic dimension of groups*, 2018.
Greensboro, NC

UNCG REU in Mathematical Biology, *Computational Topology and Weighted Persistence*, 2017.
Greensboro, NC

University of Tennessee Topology Seminar, *Product-stability of asymptotic property C*, 2017.
Knoxville, TN

University of Tennessee, Computational Topology Guest Lecture, *Weighted persistence and two problems from topological data analysis*, 2017.
Knoxville, TN

Winston-Salem State University, *Topological data analysis and multifiltrations*, 2017.
Winston-Salem, NC

UNCG Topology Seminar, *On asymptotic property C*, 2016.
Greensboro, NC

University of Florida Topology Seminar, *On product-stability of asymptotic property C*, 2016.
Gainesville, FL

UNCG REU in Mathematical Biology, *Computational Topology*, 2016.
Greensboro, NC

Seminar of Geometric Group Theory and Topology, IMPAN, *Coarse notions of decomposition complexity*, 2015.
Warsaw, Poland

University of Wrocław Geometry Seminar, *Coarse property C and decomposition complexity*, 2015.
Wrocław, Poland

UNCG Topology Seminar, *Topological Data Analysis and Directed Persistence*, 2014.
Greensboro, NC

UNCA Seminar, *An introduction to computational topology*, 2014.
Asheville, NC

IMA Annual Program Seminar, *Asymptotic topology and group actions*, 2013.
Minneapolis, MN

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UNCG Topology Seminar, *Dimension Theory II – asymptotic dimension*, 2012.
Greensboro, NC

UNCG ACNT Seminar, *Tucker's lemma and a problem in geometric group theory*, 2012.
Greensboro, NC

UNCG SiMPLE Talk, *Geometric Group Theory*, 2011.
Greensboro, NC

University of Warsaw Topology Seminar, *Dimension: local and global*, 2008.
Warsaw, Poland

iSchool Summer Seminar, *An introduction to topology*, 2007.
Greensboro, NC

UNCG Topology Seminar, *An introduction to geometric group theory*, 2006.
Greensboro, NC

University of Utah Max Dehn Seminar, *Asymptotic dimension of a curve graph*, 2005.
Salt Lake City, UT

UNCG Mathematical Sciences Colloquium, *Asymptotic dimension and geometric group theory*, 2005.
Greensboro, NC

Cornell Topology and Geometry Seminar, *Asymptotic dimension of groups*, 2005.
Ithica, NY

Penn State Topology Seminar, *A Hurewicz theorem for asymptotic dimension*, 2004.
University Park, PA

UIUC Geometric Group Theory Seminar, *Asymptotic dimension and property A for groups acting on metric spaces*, 2003.
Urbana-Champaign, IL

Penn State Geometric Functional Analysis Seminar, *Asymptotic dimension and property A for groups acting on metric spaces*, 2003.
University Park, PA

University of South Alabama Mathematics Colloquium, *Two asymptotic properties of finitely generated groups*, 2003.
Mobile, AL

University of Louisville Analysis Seminar, *Property A for metric spaces and groups*, 2002.
Louisville, KY

UF Topology Seminar, *Delivered talks each semester on current research*, 2000-2002.
Gainesville, FL

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Contributed Work

Topology and Geometry of Networks and Discrete Metric Spaces, *Poster Session: Directed Persistence*, 2014.
IMA, Minneapolis, MN

Funding

Internal	UNCG Faculty First Grant, Asymptotic property C, $5000, PI (2017)
Funded	MAA: PIC Math $5000, Senior Personnel (2015)
Internal	International Travel Fund travel to Warsaw, Poland (UNCG) $700 (2015)
Internal	UNCG Faculty First Grant, A coarse geometric approach to detecting tree-like structure in networks, $2297, PI (2015)
Fellowship	IMA New Directions Assistant Professor $20,000+local expenses (2014)
Internal	IMF/Kohler fund travel grant to Warsaw and Łódź, Poland (UNCG) $1700, (2011)
Internal	IMF/Kohler fund travel grant to Bristol, England (UNCG) $500, (2011)
Unfunded	NSF: Innovations in Graduate Education $488,007, PI (2019)
Unfunded	Simons Foundation Collaboration Grants for Mathematicians $42,000, PI (2019)
Unfunded	RTG: Geometry, Algebra, and Number Theory at UNC Greensboro, $1.06m, co-PI (2018)
Unfunded	Simons Foundation Collaboration Grants for Mathematicians $42,000, PI
Unfunded	NSF - EDT: Computational Mathematics with Applications $596,763, Co-PI (2015)
Unfunded	GAANN $553,646.25, PI (2015)
Unfunded	UNCG Regular Faculty Grant, A coarse geometric approach to tree-like networks, $9887.83, Co-PI (2015)
Unfunded	NFS - EDT: Computational Mathematics with Applications $596,763, Co-PI (2014)
Unfunded	NSF: Exploration of modular forms, L-functions, and the distribution of primes, Co-PI (2010)
Unfunded	NSF: Undergraduate Research Experience for Pre-service Secondary Teachers in Mathematics and Its Impact on Their Teaching, senior personnel (2009)

Professional Memberships

American Mathematical Society, Council of Graduate Schools, Honor Society of ΦΚΦ (life member)

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Teaching Activities

Courses Taught

UNCG	Calculus I, Calculus II, Calculus III, Calculus for Business and Social Scences, Computational Topology, Contemporary Topics in Mathematics, Directed Study in Mathematics, Discrete Mathematics I, Freshman Seminar in Mathematics, General Topology, Introduction to Mathematical Analysis, Intuitive Concepts in Topology, Linear Algebra and Matrix Theory I, Linear Algebra and Matrix Theory II, Mathematical Analysis I, Mathematical Analysis II, Measure Theory, Precalculus I, Precalculus II, Problem Solving in Mathematics, Real Analysis, Selected Topics in Computational Mathematics, Teaching Mathematics Seminar, Topics in Computational Mathematics, Algebraic Topology
Penn State	Calculus I, Calculus II, Calculus III, Combinatorics, General Topology
University of Louisville	Precalculus, Non-Euclidean Geometry
University of Florida	Business Calculus, Precalculus, Calculus II

Thesis and Dissertation Supervision

2019 **PhD Dissertation Supervisor**.
Austin Lawson: On the preservation of coarse properties over products and on persistence curves

2018 **MA Thesis Advisor**.
C. Neil Pritchard: An obstruction to property A.

2016 **MA Thesis Advisor**.
Austin Lawson: Multi-scale persistent homology.

2016 **MA Thesis Advisor**.
Joshua Martin: Multiradial (multi)filtrations and persistent homology.

2014 **PhD Dissertation Supervisor**.
Danielle Moran: Permanence results for dimension-theoretic coarse notions.

2013 **MA Thesis Advisor**.
Michael Watts: On two-element generating sets for S_n

2011 **MA Thesis Advisor**.
Lauren Sher: Asymptotic dimension and asymptotic property C.

Thesis and Dissertation Committee

2023 **PhD Committee**.
C. Neil Pritchard

2021 **PhD Committee**.
James Rudzinski

2018 **PhD Committee**.
Wei Chen

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2017 **PhD Committee**.
Jeong Sep Sihm

2016 **MA Thesis Committee**.
Qi Zhang

2016 **MA Thesis Committee**.
Lance Everhart

2008 **MA Thesis Committee**.
Jeremy Magee

Department Professional Mentoring of Assistant Professors

2021 Associate Professor Brett Tangedal

2021 Assistant Professor Thomas Weighill

2014–2015 Assistant Professor Talia Fernós

Department Professional Mentoring of PhD Students

2016-2017 Byungjae Son (PhD, 2017).

Courses Created

2011–2017 Submitted various program revisions to MA and PhD program

2017 Created course in Project in Mathematics

2015 Created course in Practicum of Teaching Mathematics

2012 Created course in doctoral research.

2009 Created course in computational topology.

Awards

2017 Department of Mathematics and Statistics Distinguished Service Award

2010 Nominated for UNCG Arts and Sciences Teaching Award

2001 UF Mathematics Department Teaching Excellence Award

References

Available upon request.

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