THE MATH ALLIANCE



DR. DAVID GOLDBERG
Director

I hope you all had a great Thanksgiving. I was happy to have friends and family around me for this holiday and feel a sense of reconnection with them that I needed this month.

November was so full of activity it is hard to even know where to start. So, I will just focus on recapping the Field of Dreams Conference, which we held November 8-10 in Atlanta. There is still some dust settling, but here are a few of the preliminary things we can say about the conference. There were 389 registered attendees, including 187 Math Alliance Predoctoral Scholars. This compares with 412 attendees in 2023, and 186 Predoctoral Scholars. There were 74 tables at the Graduate School Fair, exactly the same number as in 2023 (and in both cases this was the maximum the space could accommodate). This shows us that many programs are still looking to recruit Math Alliance Scholars. The plenary lectures by Bárbara Gonzáles, of Northern Illinois University, and Naomi Cameron, of Spelman College, were elucidating and thought provoking, and both left me thinking about ways to use our disciplines and professions for good in the world. The Keynote Address was delivered by Aris Winger, of Georgia Gwinnett College, and was inspiring, encouraging us to all think about ways to move forward, together. It was timey and inspiring, and Dr, Winger spent more than an hour talking informally with students after his talk.

Save the Date:

2025 Field of Dreams Conference November 7-9 Atlanta, GA

Overall, I view this as an overwhelming success. This conference and all of our work, continues to be relevant and impactful. You can visit our <u>google photos album</u>, but also look for more photos and some video content to be available soon. I am looking forward to next year's conference with great anticipation.

As we move into the month of December, and the end of the year we are looking forward to the Joint Math Meetings in Seattle in January. I want to call attention to our two events at this year's JMM, and hope many of you who will be in Seattle for the meetings will be able to attend. On January 10 (Friday), we host the AMS Special Session featuring research talks by Math Alliance Scholars. There is a morning session (9AMnoon), and an afternoon session (1:30PM to 5PM). Please try to find time to see at least some of the presentations by these emerging researchers from our community. On Saturday, January 11, we host a 90-minute JMM panel discussion (2PM-3:30PM), "Fields of Success: Math Alliance Scholars Tell their Stories from Undergraduate to Graduate and Beyond." This is a version of a session we hold at Field of Dreams, and we will have great panelists, telling their stories in a new setting. If you are at the meeting, please try to attend (and tell all your friends!).

Finally, I want to point out that on Saturday, January 11, 11:30 AM to 1PM there will be the premiere of part 2 of "Journeys of Black Mathematicians" from Zala Films. This is sure to feature many mathematicians having some association with the Math Alliance, and will surely be a great addition. So, as Aris Winger encouraged us, let's all move forward, together.

What's Happening Next?

- JMM 2025 Seattle, WA January 8-11, 2025
- Math For All Conference April 5, 2025
- 2025 Field of Dreams Conference (FOD 2025) Atlanta, GA November 7-9, 2025

Bridge to Doctorate Program in Statistics and Data Science

Applications for the Master of Arts in Statistics and Data Science, Bridge to a Doctorate Program will open on January 21, 2025. This two-year research master's (AM) degree program provides advanced coursework, research experience, and mentorship to students who need additional preparation for admission to a doctoral program.

Bridge Fellows will receive financial support (full tuition, health benefits, and a stipend) and will work with faculty on individualized curricula built around their interests and goals.

Because of the mentorship and individualized curricula for Bridge Fellows, the cohort is small. Applicants must demonstrate a strong interest in research and a desire to earn a PhD. Therefore, faculty recommendations are a critical part of the evaluation of applicants.

I will host an informational webinar for interested students with Dr. Nancy Zhang, the Bridge Program Co-director on November 8, 2024. Registration for the webinar is required. Students should check the website for registration information for the Zoom here: <u>https://statistics.wharton.upenn.edu/programs/bridge/</u>. Full details on the program and application process are also available on the website.

Your help in identifying applicants and encouraging them to apply is very much appreciated.

Please contact us at statbridgeprogram@wharton.upenn.edu if you have any questions.

USTARS 2025 OPEN

I hope your fall semester is off to a good start! I'm writing to share information about STEM funding opportunities for students. Many of these scholarships and fellowships have early fall deadlines for funding for the 25 /26 academic year, and these early deadlines can catch students off guard!

At the moment, PathwaysToScience.org has over **65 portable scholarships and fellowships** posted on the site, all within STEM:

https://www.pathwaystoscience.org/programs.aspx?

<u>u=&r=&s=&sa=either&p=YesPortable&o=either&c=either&f=&dd=&ft=&submit=y&adv=adv</u>

Undergraduate scholarships and resources for applying: <u>https://pathwaystoscience.org/Undergrads.aspx</u>

Graduate fellowships and resources for applying: <u>https://pathwaystoscience.org/Grad.aspx</u>

Postdoctoral fellowships and postdoc positions: <u>https://pathwaystoscience.org/Postdocs_Portal.aspx</u>

A quick video tutorial on using our advanced search functions to find funding opportunities: <u>https://www.youtube.com/watch?v=FxKsAGk8dAw&t=16s</u>

As always, I am happy to help with finding funding opportunities. If students would like assistance in searching our database of funding opportunities, they should email me with their level of study, disciplinary interests, and any other relevant requirements. Please also share this message with colleagues!

The mission of the Institute for Broadening Participation is to increase diversity in the Science, Technology, Engineering and Mathematics (STEM) workforce. We design and implement strategies to increase access to STEM education, funding, and careers, with special emphasis on reaching and supporting individuals from underserved communities and underrepresented groups, including underrepresented minorities, women, persons with disabilities, first generation college students, and students from underserved communities. The Institute for Broadening Participation is a 501(c)(3) organization, tax ID #20-1891162. Your contribution is taxdeductible to the extent allowed by law.

ICERM WORKSHOP

ICERM welcomes participant applications for a topical workshop, "Uncertainty Quantification for Mathematical Biology", held during May 5-9, 2025, on-site at ICERM in Providence, RI, USA.

Workshop details: icerm.brown.edu/program/topical_workshop/tw-25-uqmb

The core goal of this workshop is to foster research and community collaborations at the intersection of computational and mathematical biology, UQ algorithms, and data-driven learning. This workshop aims to galvanize advancements across these fields. The week-long event will feature speakers, tutorials, panel and small-group discussions, and a poster session.

ICERM welcomes applications from faculty, postdocs, graduate students, industry scientists, and other researchers who wish to participate. To apply to attend, please submit an application through the website linked above. Some funding may be available for travel and lodging.



THE POLYTECHNIC APPROACH "LEARNING BY DOING"

Cal Poly Pomona is a place where careers begin, mentorship thrives, and future leaders learn to lead. Our hands-on approach to learning, diverse campus community, and culture of care help students succeed from day one.

Degree Programs

The Department of Mathematics and Statistics confers two graduate degrees:

- MS in Mathematics (Pure Mathematics or Mathematics Education Emphasis)
- MS in Statistics and Applied Mathematics (Statistics or Applied Mathematics Option)

Our program is suitable for individuals interested in theoretical mathematics, applications of mathematics or statistics, working in industry, or teaching at the secondary or post-secondary level. Also, our program provides a solid foundation for those seeking to pursue further graduate study in various fields of mathematics.

Full-time Faculty Applied Mathematics

Manuchehr Aminian Jillian Cannons Alan C. Krinik Tracy McDonald Randall Swift Jennifer Switkes Ryan Szypowski Hubertus von Bremen Weiqing Xie **Pure Mathematics** J. Arlo Caine Briana Foster-Greenwood Berit Givens Emily Heath Peter Kagey

Fernando Lopez-Garcia Ioana Mihaila John A. Rock Amber Rosin

Mathematics Education

Stacy Brown Anne Cawley Stacy Musgrave Laurie Riggs Cristina Runnalls Greisy Winicki-Landman Hyunkyoung Yoon

Statistics

He Jiang Hoon Kim Adam King Chris Jungwon Mun Jimmy Risk



CAL POLY POMONA MATHEMATICS & STATISTICS

GRADUATE PROGRAMS





Funding Your Education

Students are eligible for a wide array of scholarships & grants offered through the Department and the University. Financial aid and student loans are also available to fund the MA Program.

Many students also work as Teaching Associates (TAs). Applications are due in April in the Spring immediately preceding the Fall term in which you wish to begin the program. The TA application process is completely separate from that for admission to the graduate program itself.



For More Information Graduate Coordinator Dr. John Rock: jarock@cpp.edu

Information for International Applicants: cpp.edu/admissions/international/graduate

Information for Undocumented Applicants: cpp.edu/broncodreamers

Division of Graduate Studies: cpp.edu/gradstudies

Admissions

Applications are due April 1. An applicant not meeting the minimum standards of the department may be admitted as a conditional student, if space is available. Note that recommendation letters, the General GRE, and the Subject GRE in Mathematics are NOT required.

MS in Mathematics

To be considered for admission, students must have completed single and multivariable calculus, introductory linear algebra, an introduction to proof-based mathematics (similar to our MAT 3100). introductory real analysis, and introductory modern/abstract algebra. Additional upperdivision proof-based mathematics courses with grades of B or higher are strongly recommended.

MS in Statistics and Applied Mathematics

To be considered for admission, students must have completed single and multivariable calculus plus lower-division coursework covering linear algebra, differential equations, and elementary statistics or data science. Upper-division applied mathematics and statistics coursework with grades of B or higher is strongly recommended. Experience with coding is also strongly recommended.

APPLY NOW

calstate.edu/apply

Degree Requirements

Regardless of the chosen degree program, graduate students must complete 30 credit units as described in the university catalog.

In all cases, students have the choice of either completing a thesis (26 units for coursework and 4 units for thesis preparation) or two comprehensive exams (28 units for coursework and 2 units for comprehensive exams preparation).

MS in Mathematics

Core Coursework (14 units):

- Graduate Seminar
- Real Analysis I •
- Abstract Algebra I
- **Complex Analysis**
- Problem Solving as a Mathematical Endeavor

Electives (12-14 units)

Culminating Experience (2-4 units)

MS in Statistics and **Applied Mathematics**

Core Coursework (14 units):

- Applied Regression Analysis •
- Mathematical Statistics I
- Numerical Analysis I
- Mathematical Modeling I

Subplan/Option Coursework (6-9 units) Subplan/Option Electives (3-8 units) Culminating Experience (2-4 units)

Mathematics & Statistics Cal Poly Pomona 3801 West Temple Avenue Pomona. CA 91768



Phone: 909-869-3142

Website: cpp.edu/sci/mathematics-statistics



Convexity MAY 18-23, 2025 WOMEN AND MATHEM

UHLENBECK LECTURE COURSE

Tropical Geometry Melody Chan | Brown University

Tropical geometry is a modern degeneration technique in algebraic geometry. Think of it as a very drastic degeneration in which one associates a limiting object to a family of algebraic varieties that is entirely combinatorial. I will introduce tropical geometry through the beautiful topics of tropical curves, tropical abelian varieties, and their moduli spaces.

Prerequisites: Exposure to combinatorics and graph theory, and a semester of algebraic geometry or algebraic topology.

TERNG LECTURE COURSE

Log-concavity and Matroids Cynthia Vinzant | University of Washington

Matroids are combinatorial structures that model independence, such as that of edges in a graph and vectors in a linear space. I will introduce the theory of matroids along with their surprising connection to a class of multivariate polynomials that are log-concave on the positive orthant. Log-concavity is an important feature of many functions and discrete sequences appearing across mathematics, including combinatorics, algebraic geometry, convex analysis, and optimization. We will explore the real and combinatorial geometry underlying log-concavity along with applications to matroids and the mixing times of random walks.

Prerequisites: Linear algebra and some exposure to each of algebra, combinatorics, graph theory, and probability.

ORGANIZERS

Wei Ho | IAS/University of Michigan/Princeton University, DirectorMichelle Huguenin | Institute for Advanced Study, Program ManagerDusa McDuff | Barnard College and Columbia University, Professor

APPLICATION DEADLINE IS FEBRUARY 14, 2025

For more information, please visit:

www.ias.edu/math/wam/program-years/2025-program-women-and-mathematics

 W^+AM is most grateful for renewed funding from the National Science Foundation, Lisa Simonyi, the Robert S. Hillas Fund, the Minerva Research Foundation and Princeton University Department of Mathematics. Their generous support enables W^+AM to continue its mission to recruit and retain more women in mathematics through new and sustained initiatives. W^+AM is open to all that support its mission regardless of gender.





Save the date!

MATH FOR ALL CONFERENCE April 5 2025

'irtual and In-person at

New Orleans, LA Austin, TX Boulder, CO Clemson, SC Salt Lake City, UT Virtual





For more information: https://biostat.centers.vt.edu/

CUBE 2025 SUMMER PROGRAM

The Collaborative Undergraduate Biostatistics Experience (CUBE) program provides undergraduate students who are underrepresented in STEM programs with training and mentorship in a real-world collaborative health data science research project.



Program Dates: June 2, 2025 through July 25, 2025

WHAT IS CUBE?

CUBE is an 8-week training program designed to provide undergraduate students who are underrepresented in STEM programs the opportunity to engage in a collaborative data science experience in the health field, along with related professional development activities. The goal is to offer students an experience working with a real-world dataset under the mentorship of experienced data scientists and clinical experts, to help them determine if they want to pursue a career in collaborative data science, and to provide them with professional development skills for the workplace or for graduate school.

WHO WILL HOST AND MENTOR STUDENTS?

Students will be hosted and mentored by faculty and staff at either Virginia Tech's (VT's) Health and Technology campus in Roanoke, Virginia or at the University of Virginia (UVA) located in Charlottesville, Virginia.

STIPEND?

\$4800 (housing and social outings will be covered by the program; student is responsible for food/meals; this stipend is taxable to the student)

MORE INFO

Scan this QR code to get more information about the CUBE summer program



FOLLOW US ON X (TWITTER) @VT_BIOSTATS

APPLICATIONS

Applications Open: October 1, 2024 to Febuary 28, 2025

Where can students apply?

https://biostat.centers.vt.edu/CUBE.html

WHO SUPPORTS THE CUBE PROGRAM?

CUBE is funded by the National Institutes of Health's (NIH) NIDA/NIAAA institutes under award number R25DA058482, AbbVie, as well as by Virginia Tech's College of Science, the University of Virginia's Division of Biostatistics, and the Integrated Health Research Institute of Virginia (ITHRIV).



OUR TEAM

The mission of the Center for Biostatistics and Health Data Science (CBHDS) is to achieve excellence in Virginia Tech's health- and medically-related research portfolio.

Master of Actuarial and Quantitative Risk Management



COLLEGE OF ARTS AND SCIENCES

Department of Mathematics Graduate Office 102 Mathematics Building 231 West 18th Avenue Columbus, Ohio 43210

Who Should Apply?	Recent college graduates with a strong background in quantitative fields, such as mathematics, statistics, physics, economics, computer science, accounting, finance, engineering or actuarial science
	Prospective actuaries interested in changing career paths or transitioning into the actuarial, finance or banking fields.
Program Synopsis	The Master of Actuarial and Quantitative Risk Management (MAQRM) program is a 3-4 semester long graduate program which provides innovative interdisciplinary training in actuarial science, quantitative finance, and data science. The curriculum includes advanced courses in risk management, stochastic calculus and data analytics along with more traditional skill training in actuarial science, financial economics, statistics and numerical analysis.
Learning Outcomes	Students in the MAQRM program will acquire proficiency in the core subjects of actuarial and financial mathematics. Those who choose the traditional actuarial science direction will acquire proficiency in the areas covered by the actuarial exams administered by the Society of Actuaries and the Casualty Actuarial Society. Students may also choose a traditional financial engineering track. Or they may create a hybrid program focusing on the development of cutting-edge tools used in their preferred career path.
Annual Career Fair	The annual Ohio State Actuarial Science Career Fair affords the exclusive opportunity for actuarial science students to network and interview with actuaries from major insurance companies and consulting firms from around the United States.
Nationwide Mentoring Program	Get paired with a senior actuary or quantitative hedging mentor at Nationwide. Join our large Ohio State University alumni community, network, and learn about important real-world information about your potential career path before you graduate.
Thesis Options	Students may choose to complete the degree via either a thesis option or a non- thesis culminating examination. Either option provides students the opportunity to showcase their subject matter expertise. The thesis option may be especially valuable for students considering eventually pursuing another advanced degree. Past students have completed thesis research in areas such as financial engineering, biostatistics, and machine learning.
Practicum Experience	Students enroll in our seminar series to meet with prospective employers to discuss career development strategies and networking. We keep our program small to ensure all students receive the resources they need to succeed. Hands on and 1-1 training through presentations and class projects will be given by practicing actuaries or guaptitative finance professionals on topics drawn

roj ects will be g n by p racticing actuaries or quantitative finance p rotessionals on topics drawn from their fields.

Connections with Employers





CONTACT

Email: grad-info@math.osu.edu Phone: 614-292-6274 Visit: math.osu.edu/grad



(Garden of Constants by Barbara Grygutis was selected out of 130 artist ideas and installed on campus in 2004.

Drive change and shape the future using your analytical and reasoning skills!

> Apply for the AMS Congressional Fellowship today.

AMS Congressional Fellowship 2025–2026

The American Mathematical Society will sponsor a Congressional Fellow from September 2025 through August 2026. The Fellow will spend the year working on the staff of either a member of Congress or a congressional committee, contributing scientific and technical expertise to legislative and policy areas. They will bring their technical background and external perspective to the decision-making process in Congress. Prospective Fellows must be aware of and sensitive to political and social issues and have a strong interest in applying their knowledge to solve societal problems.

Now in its 20th year, the AMS Congressional Fellowship provides a unique public policy learning experience, and demonstrates the value of science-government interaction. The program includes an orientation on congressional and executive branch operations, and a year-long seminar series on issues involving science, technology, and public policy.

By the February 1, 2025 deadline date, applicants must:

- hold a PhD or an equivalent doctoral-level degree in the mathematical sciences.
- be a US citizen.
- provide a statement of interest and qualifications.
- submit a current curriculum vitae and three letters of recommendation.

Applicants must not be a federal employee.

The Fellowship stipend is US\$105,812 for the Fellowship period, with additional allowances for relocation and professional travel, as well as a contribution toward health insurance.



"The fellowship definitely will strengthen my communication skills, and will allow me to apply general logic and analysis skills in a different setting than what I've been used to. "

> -Ellen Urheim, AMS Congressiona Fellow 2023-2024

> > Learn more at the JMM2025 session on *DC-based Policy and Communications Opportunities*, Friday, January 10, 2025 at 4:30 p.m.

> > > **Scan below**



Or visit **www.ams.org/ams-congressional-fellowship** to learn more and apply.

MSRI / Simons Laufer Mathematical Sciences Institute (SLMath) Programs

Register for Spring 2025 Scientific Workshops at SLMath

SLMath workshops are free to attend in Berkeley and online, thanks to the generous support of our funders, including the U.S. National Science Foundation. Register Online: <u>slmath.org/workshops</u>.

Probability and Statistics of Discrete Structures

- <u>Connections Workshop</u> (slmath.org/workshops/1085): January 23-24, 2025
- Introductory Workshop (slmath.org/workshops/1086): January 27-31, 2025
- <u>Detection, Estimation, and Reconstruction in Networks</u> (slmath.org/workshops/1098): April 21-25, 2025

Extremal Combinatorics

- <u>Connections Workshop Extremal Combinatorics</u> (slmath.org/workshops/1087): February 6-7, 2025
- <u>Introductory Workshop Graph Theory: Extremal, Probabilistic and Structural</u> (slmath.org/workshops/1088): February 10-14, 2025
- <u>Algebraic and Analytic Methods in Combinatorics</u> (<u>slmath.org/workshops/1091</u>): March 17-21, 2025

Other Workshops

- Hot Topics: Interactions between Harmonic Analysis, Homogeneous Dynamics, and
- Number Theory (slmath.org/workshops/1089): March 3-7, 2025
- <u>Critical Issues in Mathematics Education (CIME) 2025</u> (<u>slmath.org/workshops/1139</u>): April 2-4, 2025

Funding Support: Funding Support: Established researchers, postdoctoral fellows, and graduate students are invited to apply for funding. Funding awards are typically made eight weeks before the workshop; requests received after the funding deadlines are considered only if additional funds become available. Groups underrepresented in research-intensive contexts including women, gender-expansive individuals, minorities, and mathematicians not located at research centers are welcomed and encouraged to apply.

Resources for Workshop Attendees: SLMath is pleased to be able to offer a private room for nursing parents. Childcare grants are available for researchers with children under the age of 14 (limited to US Citizens and Permanent Residents, and foreign visitors with a visa status that allows for compensation, such as a J-1). See website for full details: <u>slmath.org/family-services</u>.

MSRI, now SLMath, has been supported from its origins by the U.S. National Science Foundation, joined by the National Security Agency, over 115 Academic Sponsor departments, private foundations, and generous and farsighted individuals.

MSRI / Simons Laufer Mathematical Sciences Institute (SLMath) -ADJOINT 2025

Call for Applications: ADJOINT 2025

June 16 - July 27, 2025

SLMath invites applications for the **2025 ADJOINT yearlong program** that provides opportunities for U.S. mathematicians and statisticians – especially those from the African Diaspora – to conduct collaborative research on topics at the forefront of mathematical and statistical research. Participants will spend two weeks on site in Berkeley taking part by either:

- Joining **ADJOINT** small groups under the guidance of some of the nation's foremost mathematicians and statisticians to expand their research portfolio into a new area, or
- Applying to **Self-ADJOINT** as part of an existing or newly-formed independent research group to work on a new or established research project.

The 2025 on-site director is Dr. Naiomi Cameron (Spelman College). For full details of ADJOINT projects and leaders, visit <u>slmath.org/adjoint</u>.

Eligibility All ADJOINT and Self-ADJOINT participants must be U.S. citizens or permanent residents, possess a PhD in the mathematical or statistical sciences, and be employed at a U.S. institution. Self-ADJOINT researchers may be part of only one group's application.

How to Apply: Applications will be hosted on MathPrograms.org beginning in Fall 2024. Application Deadline: **February 4, 2025**.

Funding & Support: Lodging, meals, travel expenses, and post-programmatic travel support. Childcare grants are available for researchers with children under the age of 17 (see website for restrictions) and a nursing room is available.

MSRI / Simons Laufer Mathematical Sciences Institute (SLMath) -Research Programs

Call for Membership: MSRI / SLMath 2024-25 Research Programs

The Simons Laufer Mathematical Sciences Institute (SLMath, formerly known as MSRI) in Berkeley, California, invites applications for membership in the Institute's 2025-26 research programs beginning August 1, 2024. Detailed information can be found at <u>slmath.org/membership</u> and <u>slmath.org/programs</u>.

- <u>Kinetic Theory: Novel Statistical, Stochastic and Analytical Methods</u> (Fall 2025)
- <u>Recent Trends in Stochastic Partial Differential Equations</u> (Fall 2025)
- <u>Geometry and Dynamics for Discrete Subgroups of Higher Rank Lie Groups</u> (Spring 2026)
- <u>Topological and Geometric Structures in Low Dimensions</u> (Spring 2026)

The following positions are available:

- **Research Professorships** are intended for senior researchers who will be making key contributions to a program, including the mentoring of postdoctoral fellows, and who will be in residence for three or more months.
- **Research Memberships** are intended for researchers who will be making contributions to a program and who will be in residence for one or more months.
- **Postdoctoral Fellowships** are intended for recent PhDs.

How to Apply

SLMath uses <u>MathJobs.org</u> to process applications. Interested candidates must apply online. To receive full consideration, applications must be complete, including all letters of support, by **October 1, 2024** (Research Professors) and **November 15, 2024** (Research Members and Postdoctoral Fellows).

Additional Support

SLMath strives to include a diverse community of mathematicians in its programs, and the Institute is committed to maintaining family-friendly policies and, when possible, facilitating appropriate arrangements for partners and children of program members. Some ways that this addressed include:

- SLMath employs a Family Services Coordinator who provides help in locating schools and other services for mathematicians coming to Berkeley with their families.
- The Complementary Program has a limited number of memberships that are open to mathematicians who are partners of invited members of a core program.
- Childcare grants are available for researchers with children under the age of 18 (limited to U.S. Citizens and Permanent Residents, and foreign visitors with a visa status that allows for compensation, such as a J1).
- SLMath is pleased to be able to offer a private room for nursing parents.

MSRI, now SLMath, has been supported from its origins by the U.S. National Science Foundation, joined by the National Security Agency, over 115 Academic Sponsor departments, private foundations, and generous and farsighted individuals. Partner

Institution

POSITION AT UNVIERSITY OF MINNESOTA

The Dunham-Jackson Postdoctoral Associate is a three-year appointment in the <u>School of</u> <u>Mathematics at the University of Minnesota</u> that will begin in the Fall semester 2025. We seek candidates with demonstrated excellence in research and teaching. Preference will be given to applicants whose research interests are compatible with faculty in the department. The position has a teaching load of three one-semester courses per academic year.Salary is competitive. The department is committed to building a diverse, supportive, and inclusive community for all students and faculty, and is particularly interested in candidates who have a demonstrated interest in furthering these goals.

Applicants should have received or expect to receive a Ph.D. in mathematics or its equivalent no earlier than January 1, 2024 and no later than August 26, 2025. Applications and all supporting materials must be submitted electronically through MathJobs. Applicants must include the following: cover letter, curriculum vitae, a research statement, a teaching statement, and four letters of recommendation, at least one of which addresses teaching ability. Applicants may also provide an optional statement to describe their contributions in other aspects of their candidacy, such as service, outreach, and inclusion efforts. Reference letter writers should be asked to submit their letters online through mathjobs.org. Applications received by Monday, December 2, 2024 will receive full consideration, and we will continue reviewing applications for as long as positions are available.

About the Department: The School of Mathematics, located in the heart of the University of Minnesota's College of Science and Engineering, features over sixty faculty and more than 120 graduate students engaged in world-class research across all areas of mathematics. Its core educational mission is to provide students with the analytical skills to thrive in the modern workplace, while fostering an inclusive and inspiring environment where everyone can achieve their full potential.

The School is supported by numerous centers which extend the research and outreach missions of the department, including the Institute for Mathematics and its Applications, the Minnesota Center for Financial and Actuarial Mathematics, the Minnesota Center for Industrial and Applied Mathematics, and the School of Mathematics Center for Educational Programs which houses UMTYMP - our program for mathematically talented Minnesota youth.

Working at the University: At the University of Minnesota, you'll find a flexible work environment and supportive colleagues who are interested in lifelong learning. We prioritize work-life balance, allowing you to invest in the future of your career and in your life outside of work. Please visit the Office of Human Resources website for more information regarding benefits: <u>https://hr.umn.edu/</u>.

Diversity: The University recognizes and values the importance of diversity and inclusion in enriching the employment experience of its employees and in supporting the academic mission. The University is committed to attracting and retaining employees with varying identities and backgrounds.

The University of Minnesota provides equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression. To learn more about diversity at the U: <u>http://diversity.umn.edu</u>.

Employment Requirements: Any offer of employment is contingent upon the successful completion of a background check. Our presumption is that prospective employees are eligible to work here. Criminal convictions do not automatically disqualify finalists from employment.

Partner

Institution

POSITION AT ARIZONA STATE UNVIERSITY

The School of Mathematical and Statistical Sciences (SoMSS) at Arizona State University invites applications for a full-time, tenure-eligible position in Actuarial Science at the rank of Assistant or Associate Professor. The anticipated start date is Fall 2025. The Actuarial Science programs at Arizona State University, established in 2014 and 2018 for the Bachelor's and Master's degrees respectively, have a total enrollment of approximately 100 students. Our Actuarial Science program obtained the Center of Actuarial Excellence (CAE) designation by the Society of Actuaries (SOA) in June 2024, which compliments the program's recognition at the gold level by the Casualty Actuarial Society (CAS). The program also has an active chapter of the Gamma lota Sigma, Kappa.

The essential duties of the position will be to conduct research and publish in appropriate top-tier journals on theory, methodology, or applications in the areas relevant to actuarial science, mathematical finance, and/or risk analysis and to deliver high-quality teaching in courses relevant for our undergraduate and Master's Actuarial Science programs, mentoring students, and engaging in professional service.

About Arizona State University

ASU exemplifies a new prototype for the American public research university. As articulated in the ASU Charter, ASU is a comprehensive public research university, measured not by whom it excludes, but by whom it includes and how they succeed; advancing research and discovery of public value; and assuming fundamental responsibility for the economic, social, cultural and overall health of the communities it serves.

Required qualifications:

• A Ph.D. in mathematical or statistical sciences or a closely related area by the time of appointment.

• Demonstrated potential for excellence in research and teaching, relative to career level.

Desired qualifications:

- Documented record of published research in actuarial science.
- Demonstrated ability or potential to secure grant support, relative to career stage.
- Demonstrated experience and/or interest in teaching and mentoring.
- Demonstrated potential for establishing interdisciplinary collaborations.
- Significant progress toward credentialing at the associateship or fellowship level with the Society of Actuaries (SOA), Casualty Actuarial Society (CAS), or a society mutually recognized by SOA or CAS.
- Demonstrated commitment to working with faculty, students, staff, and communities to advance the principles of the ASU Charter.

Application Instructions:

The application deadline is **December 24,2024**. Applications will continue to be accepted on a rolling basis for a reserve pool. Applications in the reserve pool may then be reviewed in the order in which they were received until the position is filled. Candidates will be asked to create or use an existing Interfolio Dossier to submit the following application materials:

Submit the following to the ASU Interfolio website: http://apply.interfolio.com/159695

1. A cover letter that briefly explains the candidate's interest in the position and addresses the candidate's commitment to the ASU Charter.

2. A curriculum vitae.

3. A personal statement addressing the candidate's research program.

4. A statement of teaching experience and philosophy.

5. Four (4) confidential letters of recommendation that address teaching and academic credentials. One of these letters should address the candidate's teaching qualifications.

Applications outside of Interfolio will not be considered.

For additional information regarding position specifics, please contact Tammy Palmer via email at tammy.palmer@asu.edu.

mathalliance@purdue.edu | www.mathalliance.org

Partner

Institution

POSITION AT ARIZONA STATE UNVIERSITY

The School of Mathematical and Statistical Sciences (SoMSS) at Arizona State University invites applications for Postdoctoral Research Scholar positions. Anticipated start date is August 16, 2025. These full-time academic year, benefits-eligible positions are renewable on an annual basis through spring 2028 contingent upon satisfactory performance, availability of resources, and the needs of the university. **Applicants must be within five years of receipt of their PhD to be considered for initial appointments and subsequent renewals.**

The essential duties of the position will be to conduct research in the mathematical sciences, along with a teaching load that is normally three courses per year.

About The College of Liberal Arts and Sciences

The College of Liberal Arts and Sciences is the academic heart of Arizona State University, committed to improving communities on a local, national and global scale. We support the professional development and growth of our faculty and staff in their cutting-edge research to advance these aims. Within The College, our faculty engage with a large curious student body, guiding them as they grow into socially aware, critical thinkers and writers able to succeed in a wide range of careers and to address the challenges of the twenty-first century. Advancing the success of

range of careers and to address the challenges of the twenty-first century. Advancing the success of our students remains our top priority. To learn more about The College of Liberal Arts and Sciences, please visit https://thecollege.asu.edu.

About Arizona State University

ASU exemplifies a new prototype for the American public research university. As articulated in the ASU Charter, ASU is a comprehensive public research university, measured not by whom it excludes, but by whom it includes and how they succeed; advancing research and discovery of public value; and assuming fundamental responsibility for the economic, social, cultural and overall health of the communities it serves.

Required qualifications:

• A Ph.D. in mathematics, applied mathematics, or a closely related area by the time of appointment. • Demonstrated potential for excellence in research and teaching, relative to career level.

Desired qualifications:

• A documented research record in an area that meshes with the research interests of a current faculty member or group of faculty members. SoMSS has strong research groups in analysis, combinatorics, computational mathematics, differential equations, dynamical systems, geometry, graph theory, mathematical biology, mathematics education, number theory, probability, and statistics.

• Demonstrated commitment to working with faculty, staff, students and communities to advance the ASU Charter.

Application Instructions:

The application deadline is **December 24, 2024**. Applications will continue to be accepted on a rolling basis for a reserve pool. Applications in the reserve pool may then be reviewed in the order in which they were received until the position is filled. Candidates will be asked to create or use an existing Interfolio Dossier to submit the following application materials:

Submit the following to the ASU Interfolio website: <u>http://apply.interfolio.com/159732</u> 1. A cover letter that briefly explains the candidate's interest in the position and addresses the

candidate's commitment to ASU's Charter.

2. A curriculum vitae.

3. A personal statement addressing the candidate's research program.

4. A statement of teaching experience and philosophy.

5. Four (4) letters of recommendation; one of these letters should address the candidate's teaching qualifications that address the candidate's teaching qualifications.

Applications outside of Interfolio will not be considered.

For additional information regarding position specifics, please contact Tammy Palmer via email at <u>tammy.palmer@asu.edu</u>.

mathalliance@purdue.edu | www.mathalliance.org

Institution

POSITION AT MICHIGAN STATE UNIVERSITY

The Department of Mathematics at Michigan State University invites applications for two RTG Postdoctoral Associate positions with a starting date of Fall 2025. This is a three-year, benefits eligible position, associated with the NSF-funded RTG project "Algebraic and Geometric Topology at Michigan State." Topology at MSU is represented by a vibrant group of faculty and graduate students; a group with rich interaction amongst not only its members but also with the closely connected research groups at MSU in geometry and algebra. RTG Postdoctoral Associates will be integrated into the topology group through pairing with faculty mentors, participation and co-leadership in RTG activities, vertically integrated structured research projects, thoughtful curation of teaching assignments, and engagement in the department's active instructional mentoring program. Candidates will be evaluated on their potential in research, teaching, graduate and undergraduate mentorship, and their fit with the topology research community at MSU. Candidates are required to have a Ph.D. in Mathematics by August 10, 2025. Due to NSF rules, the position is restricted to US citizens, nationals, or permanent residents.

Some features of the RTG postdoctoral position include:

- Mentoring in research, teaching, and other aspects of professional development
- Summer support for two summers
- Funding in the amount of \$6000 per year for travel and supplies
- A teaching expectation of one course per semester
- Participation in RTG activities such as seminars, conference organization, research collaboration with graduate students and faculty, and assisting with mentoring and directed reading programs for undergraduates

Applicants should submit the following items on Mathjobs.org to complete their application:

- Cover Letter
- Curriculum Vitae
- Research Statement
- Teaching Statement
- Four Reference Letters with at least one of which addresses teaching (Letters to be submitted online by the

reference writers at Mathjobs.org posting)

Applicants must submit their application materials via <u>Mathjobs.org</u> at <u>https://mathjobs.org/jobs/list/25010</u>.

Review of applications will begin on **December 8, 2024**, and will continue until the positions are filled. A background check is required for employment. Appointments will be renewed annually for up to three years, contingent on satisfactory performance.

For questions or further information:

- Teena Gerhardt (teena@math.msu.edu)
- Matthew Hedden (mhedden@math.msu.edu)
- Effie Kalfagianni (kalfagia@msu.edu)
- Matthew Stoffregen (stoffre1@msu.edu)

Department Website: https://math.msu.edu/

MSU is an affirmative-action, equal-opportunity employer and is committed to achieving excellence through a diverse workforce and inclusive culture that encourages all people to reach their full potential. The University actively encourages applications and/or nominations of women, persons of color, veterans and persons with disabilities. MSU is committed to providing a work environment that supports employees' work and personal life, and offers employment assistance to the spouse or partner of candidates for faculty and academic staff positions.

Institution

POSITION AT MICHIGAN STATE UNIVERSITY

The **<u>Department of Mathematics</u>** at <u>Michigan State University</u> invites applications for Fixed-Term Departmental Postdoctoral Research Associates (Postdocs) and Fixed-Term Research Associates with a starting date of Fall 2025.

Postdoctoral Research Associates (Postdocs) comprise the department Postdoctoral Fellows program. Postdoctoral Fellows contribute to the research and instructional mission of our unit. These are academic year appointed positions.

Fixed-Term Research Associates support the research activities of currently funded external research grants, as outlined in the grants statement of work and budget. These positions are either academic or annual year appointments.

All positions are benefits eligible and potentially renewable on an annual basis through Spring 2028, contingent upon satisfactory performance and availability of funding. Candidates will be evaluated on their potential in research and teaching.

Candidates are required to have a Ph.D. in Mathematics or related field by August 10, 2025. Applications from all areas of mathematical research will be considered. Research Associates will be paired with faculty mentors with whom they have compatible research interests and will engage in our active instructional mentoring program.

Applicants should submit a curriculum vitae, statements on research and on teaching, and arrange for at least four (4) letters of recommendation to be submitted, one of which must specifically address the applicant's teaching experiences. It is helpful if the cover letter indicates if the applicant wishes to be considered by specific MSU faculty.

Applications must be submitted via <u>mathjobs.org</u>. Submit your application directly at <u>https://www.mathjobs.org/jobs/list/25186</u>. The evaluation process will begin on December 2, 2024, and review of applications will continue until positions are filled. A background check is required for employment.

Equal Employment Opportunity Statement: All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identify, national origin, citizenship, disability or protected veteran status.

Member Institution

POSITION AT WASHINGTON STATE UNIVERSITY

The Program in Data Analytics and the Department of Mathematics and Statistics at Washington State University invite applications for an Assistant Professor (Teaching), Career track faculty position in Pullman, WA, with a specialty in Data Analytics. This position is a fixed-term, nine-month, three-year appointment with the possibility of renewal. We seek applicants who have expertise in Data Science and Analytics with focus in fields related to data such as: data structures, machine learning, data mining, databases, data modeling, data ethics, corporate analytics or other data domain expertise. The successful candidate will be expected to teach undergraduate and potentially graduate courses for the Data Analytics program, create curriculum innovation, and work with us to continue to develop and expand the Data Analytics program at WSU. It is anticipated that the successful candidate will begin the appointment on August 16, 2025.

Required Qualifications: Earned Ph. D. in Data Science, Data Analytics, Statistics, Applied or Computational Mathematics, Computer Science or related fields grounded in Data Science or MS in one of the above fields, with industry experience in data science/analytics or teaching experience in one of the fields (mentioned above) of at least 3 years by appointment date. Demonstrated record of or potential for program and curricular development. Proven or potential for successful teaching and instruction. Demonstrated record of or potential for commitment to equitable and inclusive educational experiences as in alignment with WSU's land grant mission. Applicants must be authorized to work for any employer in the U.S. We are unable to sponsor or take over sponsorship of an employment Visa at this time.

To Apply: Visit <u>wsu.edu/jobs</u>, select your appropriate employment status, and search for R-12623. Applicants must upload the following required documents to their online application. External candidates, please upload all documents in the "Resume/CV" section of your application. Internal candidates, please upload all documents in the "Resume/Cover Letter" section of your application.

Applicants should include a cover letter addressing qualifications for this position as well as a response to the following prompt: As a land-grant university, our university has a continuing commitment to ensuring equitable and meaningful inclusion in our classrooms, collaborations, and academic work. The successful candidate for this faculty position will have the experiences, knowledge, and skills to build their pedagogy, curriculum, and service in ways that reflect and enhance this commitment. Using the job announcement for this position, please list at least three areas of responsibility you see as directly related to fulfilling this promise, and explain, in each , how your past education and teaching experiences, and resulting knowledge and skills, have prepared you to do this work. Please include your CV, teaching statement, names, addresses, and contact information of three references who can address your history of and potential for excellence in teaching and service.

Inquiries should be directed to Daryl DeFord <u>daryl.deford@wsu.edu</u> or Nairanjana Dasgupta <u>dasgupta@wsu.edu</u>.

Posting Close Date: Applicants must submit their completed application by **February 15**, **2025**, at 12:00 a.m Pacific Time.

Washington State University is an Equal Opportunity/Affirmative Action Educator and Employer. Members of ethnic minorities, women, special disabled veterans, veterans of the Vietnam-era, recently separated veterans, and other protected veteran, persons of disability and/or persons age 40 and over are encouraged to apply.

Institution

POSITION AT CASE WESTERN RESERVE

Visiting Assistant Professor in Statistics, Case Western Reserve University

Description:

The Department of Mathematics, Applied Mathematics, and Statistics at Case Western Reserve University (CWRU) is searching for at least one visiting assistant professor in statistics, to begin in Fall 2025. These positions are open to candidates in all areas of statistics, but preference will be given to candidates whose research is closely related to that of current faculty in the department. Visiting assistant professors are expected to teach a variety of courses at both the graduate and undergraduate level, and to engage in active research. These positions are renewable for up to three years.

Qualification:

All candidates must hold a PhD in Statistics or a related field by the time of the appointment, have demonstrated teaching/mentoring experience, and have a publication record appropriate to rank.

Application Instructions:

Candidates should submit 1) a letter of application, 2) a curriculum vitae, 3) a statement of current and future research plans, 4) a statement of teaching philosophy and experience, and 5) the candidate should arrange for three letters of recommendation to be submitted directly by the writers dated within the last calendar year, at least one of which should address teaching. Case Western Reserve University and the Department of Mathematics, Applied Mathematics and Statistics value activities that support diversity and inclusion, and we invite applicants to describe such activities in their submitted materials.

All application materials should be submitted electronically at: <u>http://apply.interfolio.com/156798</u>.

Review of applications will begin January 15, 2025, and continue until all positions are filled. General correspondence about this position should be sent to Anirban Mondal, Search Committee Chair, at <u>anirban.mondal@case.edu</u>.

About CWRU:

Case Western Reserve University is located in the University Circle cultural district of Cleveland, Ohio, home of the nationally top-ranked Cleveland Clinic, internationally famous Cleveland Orchestra, the Cleveland Museum of Art, the Cleveland Institute of Music, and the Cleveland Institute of Art. Within a five-mile radius from CWRU are the nation's second largest theater district, several professional sports teams, a wide range of musical, artistic, and culinary venues, recreational opportunities, and numerous diverse communities in which to live.

Case Western Reserve University strives to maintain a diverse and inclusive work environment. All applicants are protected under Federal law from discrimination based on race, color, religion, sex, national origin, disability, age and genetics.

Case Western Reserve University provides reasonable accommodations to applicants with disabilities. Applicants requiring a reasonable accommodation for any part of the application and hiring process should contact the Office of Equity at 216.368.3066 or <u>equity@case.edu</u> to request a reasonable accommodation. Determinations as to granting reasonable accommodations for any applicant will be made on a case-by-case basis.

Institution

POSITION AT THE OHIO STATE UNIVERSITY

Assistant Professor Division of Biostatistics, College of Public Health The Ohio State University

Position Overview

The Ohio State University (OSU) College of Public Health is inviting applications for a tenure-track faculty position at the level of Assistant Professor in the Division of Biostatistics.

All research areas will be considered. We especially welcome scholars whose research enriches or expands on current research being conducted by division and College of Public Health faculty, including (but not limited to) causal inference, clinical trials, epidemiologic methods, high-dimensional data analysis, infectious diseases, longitudinal data analysis, missing data, omics data analysis, spatial modeling, survey sampling, and survival analysis. The division values the full spectrum of research including theoretical and methodological development, computational methods, and applications. The search committee is especially interested in candidates who, through their research, teaching, and service, will contribute to the excellence of our academic community. This is a nine-month, hard-money position. The start date is August 15, 2025. Salary will be determined by the candidate's credentials.

Education and Experience Requirements

Applicants must have a Ph.D. or other doctoral degree in Biostatistics, Statistics, or a closely related discipline by the start of employment.
Applicants must have strong records of peer-reviewed publications and

teaching/mentoring that are commensurate with experience.

How to Apply

To be considered, please submit your application electronically via Workday <u>https://osu.wd1.myworkdayjobs.com/OSUCareers/job/Columbus-Campus/Assistant-</u> <u>Professor_R116326-2</u>.

Please include the following required application materials in the Application Documents section, found in the My Experience step (Step 2 of the application process). You will be presented with the opportunity to attach up to FIVE documents. If necessary, please consider combining documents into one file. Please be aware that you will not be able to go back to your application after it has been submitted. Application materials must include:

- □ Curriculum Vita (CV)
- □ Statement of Research (interests, accomplishments, and plans for future work)
- □ Statement of Teaching and Mentoring (experience if applicable, approach, and philosophy)
- Two recent publications (published, accepted, or under review)

Applications will be accepted immediately. Review of applications will begin **December 6**, **2024**. We will continue to accept applications until finalists have been selected. Finalists will be asked to supply letters of recommendation. Please direct inquiries about this position to the chair of the search committee, Dr. Eben Kenah (<u>kenah.1@osu.edu</u>).

Equal Opportunity Employer

The Ohio State University is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to age, ancestry, color, disability, ethnicity, gender identity or expression, genetic information, HIV/AIDS status, military status, national origin, race, religion, sex, gender, sexual orientation, pregnancy, protected veteran status, or any other basis under the law.

Final candidates are subject to successful completion of a background check.

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Institution

POSITION AT UNIVERSITY OF CALIFORNIA, IRVINE

APPLICATION WINDOW- Open date: October 29, 2024

Next review date: Sunday, Dec 1, 2024 at 11:59pm (Pacific Time) Apply by this date to ensure full consideration by the committee.

Final date: Friday, Feb 28, 2025 at 11:59pm (Pacific Time)

Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

POSITION DESCRIPTION- The Department of Statistics (www.stat.uci.edu) in the Donald Bren School of Information and Computer Sciences (ICS) at the University of California, Irvine (UCI) invites applications for a tenure-track faculty position at the assistant professor level with an anticipated start date of July 1, 2025.

The Department of Statistics has a strong interdisciplinary flavor, focused on developing state-of-theart methods for solving topical data-driven problems in natural and social sciences, medicine and engineering, and advancing the statistical theory that underlies those methods. We are searching for faculty with strong research potential, a commitment to excellence in teaching, dedication to inclusive excellence, and enthusiasm for helping our collegial department continue to grow. Applicants should hold a Ph.D. degree (or expected by Spring/Summer 2025) in statistics, biostatistics or a related field. Candidates with research interests in all areas of statistics will be considered.

The U.S. News and World Report 2024 Best Global Universities ranking identifies UCI as one of the top 30 universities for a graduate degree in statistics in the United States. The department is further ranked within the top 20 statistics graduate programs among all public institutions. Our Master of Data Science (MDS) was recently ranked No. 7 overall on Fortune's list of best Masters degree programs in data science and we are host to the first undergraduate degree in data science within the University of California system. The department currently consists of 16 primary faculty, 57 PhD students, 28 MS students, and 127 MDS students. Faculty distinctions in the department include 7 ASA fellows, 4 AAAS fellows, 3 IMS fellows, 3 Chancellor's professors, and 1 Distinguished professor.

The University of California, Irvine is ranked as a top 10 public university by U.S. News and World Report, has been identified by The New York Times as No. 1 among U.S. universities that do the most for low-income students, and is No. 2 in the west for diversity according to The Wall Street Journal/Times Higher Education. UCI has also done what no other school has done—rank among Sierra's Top 10 most sustainable colleges for 12 years in a row. UCI is located in Orange County, 4 miles from the Pacific Ocean and 45 miles south of Los Angeles.

Completed applications containing a cover letter, curriculum vita, inclusive excellence activities statement, teaching statement, research statement, and contact information of three recommendation letter writers should be uploaded electronically. Recommendation letters will be requested for applicants who progress to the next stage of the search. Please refer to the following web site for instructions <u>https://recruit.ap.uci.edu/JPF09349</u>. The review of applications will begin December 1, 2024, and full consideration will be given to all applications received by this date.

QUALIFICATIONS- Basic qualifications (required at time of application)

Applicants should hold a Ph.D. degree (or expected by Spring/Summer 2025) in statistics, biostatistics or a related field. Candidates with research interests in all areas of statistics will be considered

APPLICATION REQUIREMENTS- Document requirements

- Curriculum Vitae Your most recently updated C.V.
- Cover Letter
- Statement of Research
- Teaching Statement See our guidance for writing a reflective teaching statement.
- Inclusive Excellence Activities Statement Statement addressing how past and/or potential contributions to inclusive excellence will advance <u>UCI's Commitment to Inclusive Excellence</u>. See our <u>guidance for writing an inclusive excellence activities statement</u>.
- Sexual Misconduct, Harassment and Discrimination Declaration Form All applicants of academic positions at the University of California, Irvine must download, complete, sign, and upload the following form with their application: Sexual Misconduct, Harassment and Discrimination Declaration Form

Reference requirements- 3 required (contact information only)

Apply link: https://recruit.ap.uci.edu/JPF09349

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Institution

POSITION AT LOYOLA UNIVERSITY CHICAGO

The Department of Mathematics and Statistics in the College of Arts and Sciences at Loyola University Chicago seeks qualified candidates for three appointments as Lecturer beginning Fall 2025. The successful candidates will be joining a department with over 40 full-time faculty members and over 200 majors across seven undergraduate programs in mathematics, statistics and data science, and three master's programs. For more information about the department, please visit its website at https://www.luc.edu/math/.

This search is part of a College-wide, multiyear hiring initiative designed to hire outstanding teachers and researchers who are reflective of our diverse student body, committed to interdisciplinarity, dedicated to the pursuit of external grants, and appreciative of a Jesuit, Catholic education. As a University that is situated in the world-class, multicultural City of Chicago and dedicated to mentoring a diverse student body, many of whom come from underrepresented and underserved populations, we especially encourage applications from candidates from underrepresented groups.

Duties and Responsibilities: The successful candidates will teach a range of math courses, primarily lower-level courses that serve non-science students. Teaching may occasionally include upper-level courses that serve our majors and could also include elementary statistics courses. The successful candidates will also engage in professional development activities as well as service at the department level or above.

Minimum Qualifications: The candidate will have a PhD in mathematics or a closely related field at the time of appointment. Candidates for the position must demonstrate clear potential for excellence in teaching and student mentorship. They must be willing to support the mission of Loyola University Chicago and the goals of a Jesuit, Catholic education.

Special Instructions to Applicants: Applicants should submit to www.careers.luc.edu (1) letter of interest; (2) current Curriculum Vitae; (3) statement on teaching philosophy and experience; (4) statement addressing past or potential contributions to mentoring a diverse student body and engaging a diverse community through teaching and service; and (5) names and email addresses of three individuals prepared to provide letters of recommendation. Candidates are also encouraged to submit additional evidence of teaching effectiveness.

Additionally, applicants must submit all application materials, including letters of recommendation, to <u>https://www.mathjobs.org</u>. At least one of the letters should address teaching qualifications.

Please direct inquiries to: Dr. Peter Tingley Chair, Department of Mathematics and Statistics Loyola University Chicago Email: <u>ptingley@luc.edu</u>

Review of applications will begin immediately and continue until the position is filled. Applications received before **December 1** will receive full consideration.

Loyola University Chicago is an Equal Opportunity/Affirmative Action employer with a strong commitment to hiring for our mission and diversifying our faculty. The University seeks to increase the diversity of its professoriate, workforce and undergraduate and graduate student populations because broad diversity – including a wide range of individuals who contribute to a robust academic environment – is critical to achieving the University's mission of excellence in education, research, educational access and services in an increasingly diverse society. Therefore, in holistically assessing the many qualifications of each applicant, we would factor favorably an individual's record of conduct that includes experience with an array of diverse perspectives, as well as a wide variety of different educational, research or other work activities. Among other qualifications, we would also factor favorably experience overcoming or helping others overcome barriers to an academic career or degrees.

As a Jesuit, Catholic institution of higher education, we seek candidates who will contribute to our strategic plan to deliver a Transformative Education in the Jesuit tradition. To learn more about Loyola University Chicago's mission, candidates should consult our website at www.luc.edu/mission/. For information about the university's focus on transformative education, they should consult our website at <u>www.luc.edu/transformativeed</u>.

The Loyola University Chicago community acknowledges its location on the ancestral homelands of the Council of the Three Fires (the Ojibwa, Ottawa, and Potawatomi tribes) and a place of trade with other tribes, including the Ho-Chunk, Miami, Menominee, Sauk, and Meskwaki. We recognize the tragic legacy of colonization, genocide, and oppression that still impacts Native American lives today. As a Jesuit university, we affirm our commitment to issues of social responsibility and justice. We further recognize our responsibility to understand, teach, and respect the past and present realities of local Native Americans and their continued connection to this land.

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Institution

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Duties and Responsibilities: This position involves teaching undergraduate- and graduate-level courses to support our programs in statistics and data science. The successful candidate will pursue a strong program of scholarship, actively pursue external funding to support their research, and engage in service at the department level or above.

Minimum Qualifications: The candidate must have a PhD in statistics, data science, or a closely related field at the time of appointment. Candidates for the position must demonstrate clear potential for excellence in research and teaching, obtaining external funding, and student mentorship. The candidate must be willing to support the mission of Loyola University Chicago and the goals of a Jesuit, Catholic education.

Special Instructions to Applicants: Applicants should submit to www.careers.luc.edu (1) letter of interest; (2) current Curriculum Vitae; (3) statement outlining the applicant's research agenda; (4) statement on teaching philosophy and experience; (5) statement addressing past or potential contributions to mentoring a diverse student body and engaging a diverse community through teaching, scholarship, and service; and (6) names and email addresses of three individuals prepared to provide letters of recommendation.

Additionally, applicants must submit all application materials, including letters of recommendation, to <u>https://www.mathjobs.org</u>. At least one of the letters should address teaching qualifications.

Please direct inquiries to: Dr. Gregory J. Matthews Chair, Search Committee <u>mmgmatthews1@luc.edu</u>

Review of applications will begin immediately and continue until the position is filled. Applications received before **December 1** will receive full consideration.

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Institution

POSITION AT UNIVERSITY OF ILLINOIS, URBANA CHAMPAIGN

The Department of Mathematics of the University of Illinois Urbana-Champaign invites applications for J. L. Doob Research Assistant Professorships. These positions are full time and non-renewable with a term of three years, beginning August 16, 2025, and are for recent Ph.D. recipients. Preference is given to applicants whose research interests align with those of member(s) of the current faculty.

The Department of Mathematics and the University of Illinois provide an excellent scientific environment to pursue research in pure and applied mathematics. The Illinois College of Liberal Arts and Sciences is a world leader in research, teaching, and public engagement. Faculty in the College create knowledge, address critical societal needs through the transfer and application of knowledge, and prepare students for lives of impact in the state, nation, and globally. To meet these objectives, the College embraces and values diversity and difference through hiring individuals who can contribute through their research, teaching, and/or service to the diversity and excellence of the Illinois community. Candidates from groups historically marginalized or underrepresented in the field, as well as those with a documented commitment to working with students, faculty, or staff from these groups through research, teaching, or mentoring are especially encouraged to apply.

Applications should be submitted electronically through <u>mathjobs.org</u> and must include:

AMS Standard Cover Sheet for Academic Employment

- Cover letter that indicates the alignment between the applicant's research interests and those of the department faculty
- Curriculum vitae including e-mail address and publication list
- Research statement
- Teaching statement
- Three letters of reference, including one that addresses teaching

Reference letter writers should submit their letters online through <u>https://mathjobs.org/</u>. If they are unable to do so, they may send their letters to the following address: JLDOOB Search, Department of Mathematics, University of Illinois Urbana-Champaign, 1409 West Green Street, Urbana, IL 61801, USA; tel: (217) 333-3350;cbreeze@illinois.edu.

The application deadline is December 1, 2024.

Application Materials Required:

Submit the following items online at this website to complete your application:

- Cover letter
- Curriculum Vitae
- Research statement
- Teaching statement
- Three reference letters (to be submitted online by the reference writers on MathJobs) And anything else requested in the position description.

Further Info:

http://www.math.illinois.edu 217-333-3351. We require that you apply online.

The University of Illinois must also comply with applicable federal export control laws and regulations and, as such, reserves the right to employ restricted party screening procedures for applicants.

The University of Illinois System is an equal opportunity employer, including but not limited to disability and/or veteran status, and complies with all applicable state and federal employment mandates. Please visit <u>Required Employment Notices and Posters</u> to view our non-discrimination statement and find additional information about required background checks, sexual harassment/misconduct disclosures, COVID-19 vaccination requirement, and employment eligibility review through <u>E-Verify</u>.

Applicants with disabilities are encouraged to apply and may request a reasonable accommodation under the Americans with Disabilities Act (2008) to complete the application and/or interview process. Requests may be submitted through the reasonable accommodations <u>portal</u>, or by contacting the Accessibility & Accommodations Division of the Office for Access and Equity at 217-333-0885, or by emailing accessibility@illinois.edu.

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POSITION AT SMITH COLLEGE

Visiting Assistant Professor of Mathematics

The Department of Mathematical Sciences at Smith College invites applications for a 2-year Visiting Assistant Professor position to begin on July 1, 2025. The position has a teaching load of five courses per year, and is renewable for a third year. Dedicated teacher-scholars in all areas of mathematics are encouraged to apply. Qualifications include a Ph.D. in Mathematics or in a related field, a strong commitment to teaching, and a high potential for research.

The successful candidate will have research overlap with members of the department, whose current interests include representation theory, algebraic combinatorics, categorification, symplectic and contact geometry, low-dimensional topology, and computational fluid dynamics.

We are the home of the Center for Women in Mathematics. In addition to courses in theoretical mathematics and applied mathematics, we co-host a Five College certificate in the biomathematical sciences, and with our award-winning postbaccalaureate program, we send a cohort of students to graduate school each year. The department is active in numerous research areas, with dynamic collaborations between faculty, and with students. Further details may be found at https://www.smith.edu/academics/mathematical-sciences.

Located in Northampton, MA, Smith College is the largest women's college in the country and is dedicated to excellence in teaching and research across the liberal arts. A faculty of outstanding scholars interact with students in small classes, as advisors, and through student-faculty research projects. Smith College offers opportunities to foster faculty success at every career stage, such as those listed here. The College is a member of the Five College Consortium with Amherst, Hampshire and Mt. Holyoke Colleges, and the University of Massachusetts Amherst. Students cross-enroll and faculty cross-teach across the Five Colleges.

Submit application at <u>http://apply.interfolio.com/159606</u> with a cover letter, curriculum vitae, diversity/inclusion statement, a statement of research, a statement of teaching experience and philosophy, and three confidential letters of recommendation, at least one of which should concentrate on teaching activities. Review of applications will begin on **February 3, 2025.**

As set forth in our mission and values, Smith College is committed to promoting a culture of equity and inclusion among students, staff and faculty. The College will not discriminate in employment on the basis of age, race, color, ethnicity, national origin, creed, religion, sex, sexual orientation, gender identity, gender expression, pregnancy, genetic information, age, veteran status, physical or mental disability, or any other classification protected by law. Smith College is an equal opportunity employer and complies with all state and federal laws that prohibit discrimination.

POSITION AT MASSACHUSETTS INSTITUTE OF TECHNOLOGY

The Mathematics Department at MIT is seeking to fill positions in Pure and Applied Mathematics at the level of tenure-track Assistant Professor or higher beginning July 1, 2025 (for the 2025-2026 academic year, or as soon thereafter as possible). Appointments are based primarily on exceptional research qualifications. Appointees will be required to fulfill teaching duties and pursue their own research program. PhD in Mathematics or related field required by employment start date.

The Department of Mathematics offers supportive mentorship to junior faculty and instructors, an exceptional environment for mathematical inquiry, and a strong commitment to an inclusive, welcoming culture. MIT is an equal opportunity employer. We value diversity and strongly encourage applications from individuals from all identities and backgrounds. All qualified applicants will receive equitable consideration for employment based on their experience and qualifications, and will not be discriminated against on the basis of race, color, sex, sexual orientation, gender identity, religion, disability, age, genetic information, veteran status, ancestry, or national or ethnic origin.

We request that applications and other materials, including (a) curriculum vitae, (b) publication list (if possible with hyperlinks), (c) research statement, (d) a broader impact statement, and (e) three letters of recommendation be submitted online at www.mathjobs.org. The broader impact statement can cover any of the following topics: teaching and educational efforts, mentoring, and/or service to community. It is highly recommended that one of the letters is written specifically to discuss your teaching abilities, experience and/or potential. To receive full consideration, applications must be complete by **November 1, 2024**.

Click here for additional information about the MIT math department.

Employment is contingent upon the completion of a satisfactory background check, including verifying any finding of misconduct (or pending investigation) from prior employers.

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Apply Link: https://www.mathjobs.org/jobs/MIT/FAC