Upcoming Events

Pennsylvania Regional Math Alliance Conference
February 18
Penn State Univ.

Gulf States Regional Math Alliance Conference
February 24-26
Texas Southern Univ.

SIDIM 2023
February 24-25
Univ. Puerto Rico, Mayaguez

2023 Field of Dreams Conference
November 3-5
Georgia State Univ.

Thoughts from the Director...

David Goldberg

Executive Director of the Math Alliance

January is coming to an end, and by this time the year is not so new anymore. As we move into February, be on the lookout for e-mails about the 2023-24 F-GAP program. If you are working with a student who fits our target group, who is planning on applying to graduate school for fall 2024 (or should be encouraged to), then be sure to nominate them for F-GAP and nominate them early! The sooner we get them paired with a Faculty Facilitator, the better.

We've seen many highs this month and certainly enough lows to last more than a year. It was great to see so many involved in positive and uplifting events around King Day. It was also great to see the Joint Math Meetings return to an in-person format. I saw so many people in those few days I had not spoken with in three years, which it made it very special. Our events at the meetings were, I think, very successful and we need to find more ways to let the broader quantitative science community know of our successes.

The lows are much starker and difficult to put into any reasonable perspective. It is hard to not become desensitized to mass shootings, when they have become a daily occurrence. We have a problem in this regard that seems unique among developed nations, and it is hard to watch our leaders continue to do so little to stem this tide. The beating death of Tyre Nichols at the hands of police is a grim reminder that we seem no closer to a society in which everyone can feel safe performing the simple act of moving about. When writing in response to the George Floyd murder I mentioned Larry Wilmore's synthesis that one could not engage in such an act toward another human being without viewing them as "less than" themselves, and I think that clearly applies here. What is it that enables police officers (of any race) to view young Black men as less than themselves? I was listening to a radio interview with Reverend Danté Stewart, and the interviewer called him to a statement Stewart had written "Just because Black people are present, doesn't mean anti-Blackness is absent" in this context. Stewart responded "History tells the story that it doesn't matter who has the badge. The badge has power that whiteness has given it in the world…" Another statement I heard about this was something like "Police culture eats police training for breakfast". We know that changing the culture of a unit, whether a police force or a math science department, is hard work, but a necessary step to effecting real change. Let's hope our leaders find a way to make some significant progress in this critical direction.

As we move towards February, I am looking forward to a great number of events, including our Gulf States Math Alliance Conference (at Texas Southern University in Houston, February 24-26). We will also see the first meeting of the new Pennsylvania regional alliance at Penn State (February 18)! There will be a number of Black History Month events and I am excited to read about the Mathematically Gifted and Black honorees. Here at Purdue, we are very proud to be hosting the first annual Johnny L. Houston Lecture (February 9), which will be delivered by Dr. Johnny L. Houston himself. While much of the news can weigh us down, I am sure there will be a lot of positive things to discuss in the next newsletter and the coming year.

Karen EDGE Fellowship Program

The purpose of the Karen EDGE Fellowship Program is to support and enhance the research programs and collaborations of mid-career mathematicians who are underrepresented minorities.

Eligibility: Fellowships are available to mid-career mathematicians employed in full-time positions in the U.S. Applicants must be U.S. citizens or permanent residents with a Ph.D. or equivalent who are underrepresented minorities. Mathematicians of any gender identity are eligible.

Funding: The award consists of $8,000 per year for three years. Valid expenses include travel by the Fellow, the Fellow's graduate students, or the Fellow's collaborators for the purpose of advancing the proposed research project, scientific computing, supplies, books, and professional memberships. Teaching buyouts or salary supplements are not permitted.

The $8,000 includes funds to support one trip to the Institute for Advanced Study in Princeton (travel only; the Institute will provide local expenses) to meet Karen Uhlenbeck and members of the IAS community.

Applications are due February 15, 2023
Apply today: https://www.mathprograms.org/db/programs/1359

UVA Mathematics Bridge Program

 We are running a bridge program at the University of Virginia (more information can be found here: https://graduate.as.virginia.edu/b2d).

The application deadline is March 1, 2023.

This is a two-year long program of courses, mentoring, and research intended for talented and motivated students from underserved communities. The program provides personalized training to help students on their path to pursuing careers in the mathematical sciences.

Data Analytics for Science Immersion Experience (DASIE)

Hello from *Carnegie Mellon University!*

This summer we are partnering with **Microsoft** and **DOW** to bring the **Data Analytics for Science Immersion Experience (DASIE)** occurring in June 2023.

Our summer workshop features lectures from CMU faculty on Data Analytics, job opportunities and on-site tours presented by our corporate sponsors, and information about MS/PhD programs at CMU.

Our *free EASY* online application is now open for summer 2023 admission and the deadline is **February 28, 2023 11:59 p.m. EST**.

Introductory seminars on data analytics will provide training in modern bioinformatics used across STEM academia and industry. Additionally, students will have opportunities to meet with and ask questions to corporate partners. Along with an in-person tour of DOW headquarters in Midland, MI, (transportation provided) to explore amazing career opportunities.

DETAILS:

Stipend	$500
Duration	Up to 2 weeks
Travel	Round trip airfare or mileage
Room	Mix of doubles, triples, quads
Board	Daily breakfast, lunch, and dinner
Daily transportation	Pittsburgh - Students walk to lectures and events. Transportation provided to field trips. Midland - Transportation provided to students.
Hours	Lectures and planned activities are scheduled from 8:30 am - 7:00 pm Monday through Friday.
Sponsored trip	White water river rafting
Locations	CMU & Microsoft: Pittsburgh, PA DOW: Midland, MI

Any questions or concerns should contact **dasie@andrew.cmu.edu** for more information.

REU Summer '23

ANVIL
FORGING THE FUTURE OF COMPUTING

RESEARCH EXPERIENCES FOR UNDERGRADUATES
Research Computing Internships

The Rosen Center for Advanced Computing (RCAC) is seeking students for Research Experiences for Undergraduates (REU) paid internships for Summer '23. This program aims at developing the next generation workforce in advanced computing and cyberinfrastructure technologies. It offers students from diverse backgrounds, the opportunity to gain the knowledge and skills necessary to build and support advanced research computing systems and scientific applications. Modeled after the RCAC's decade long successful student apprentice program, the REU students will learn by doing, working on the National Science Foundation funded Anvil system in a team environment and mentored by cyberinfrastructure professionals.

Internship Projects

1 Data Analytics: Instrument and perform analysis of scientific application workloads on the Anvil system.

2 High Performance Computing (HPC): Extend the Anvil system to burst scientific workflows into the Microsoft Azure cloud.

3 Kubernetes: To support science gateways applications, extend Anvil's Kubernetes-based composable subsystem to use cloud-based Kubernetes clusters.

4 Containers to Support Education: Enable the use of large-scale notebook deployments to provide interactive access to Anvil in support of education

Open to undergrad students from all backgrounds. Each student will present their work to Purdue staff, faculty, and researchers at the end of the program, and may present at a national conference as part of the program.

Applicants must be U.S. citizens.

For more information please visit the site below

www.rcac.purdue.edu/anvil/reu

Please email any questions to: Anvil@purdue.edu

NSF

PURDUE UNIVERSITY | Rosen Center for Advanced Computing

2023 Lathisms Scholarship

Thanks to your financial support and the phenomenal work of our Lathisms Scholarship Co-Chairs Daniel Cruz and Vanessa Sun, we are now ready to share that we have officially opened the application portal for the: 2023 Lathisms Scholarship!

Description: This scholarship aims to support Hispanic/Latinx students interested in pursuing a career focused in the mathematical sciences; such career paths include, but are not limited to, scientific research, mathematics education, engineering, and finance. We will be awarding 2-3 scholarships of up to $500 (each) in our first year, aimed at prospective and current undergraduate/graduate students.

The Lathisms Scholarship is meant to help with costs that pose a barrier to the success and advancement of the awardee in their pursuit of a career in the mathematical sciences. This could include, for example, college and/or graduate school application fees, conference funding, childcare costs, and/or tuition.

Eligibility: Applicants must

   - be Latinx/Hispanic (self-identified);

   - be interested in pursuing a career in the mathematical sciences; and

   - be high school juniors/seniors, high school graduates, current/prospective college students, or current/ prospective graduate students. Please note that individuals who have obtained a GED (General Education Development) certificate from a program in the United States are also eligible.

We especially encourage undocumented individuals, TPS beneficiaries, and DACA recipients to apply. We also encourage community college, Pell Grant eligible, first-generation, and low-income students to apply as well. We will use discretion in announcing the awardees and may not publicly reveal the identities of the awardees if privacy is of significant concern.

Deadline: March 15th.

Full scholarship details along with the application can be found here and we encourage you to share the scholarship information with others!

We are still looking for volunteers to serve on the scholarship selection committee. In particular, we encourage the following individuals to volunteer: graduate students, postdoctoral scholars, research scientists, industry & academic professionals, and faculty from Hispanic-Serving Institutions (HSIs), 4-year colleges/universities, and/or liberal arts colleges. Note that no prior experience serving on such a committee is required. We understand that your time is valuable; we currently anticipate a time commitment of 15-25 hours, depending on the number of applications that we receive. The work will involve reviewing applications over the course of March to April 2023 and meeting virtually 3 to 4 times with other committee members. If you are interested or have any questions, please do not hesitate to contact us at volunteers@lathisms.org.

RUSIS@IU -- Summer 2023
Javier Rojo -- Director

10– Week Summer Program
May 22nd - July 28th 2023

The program is designed to prepare undergraduate students for graduate research careers in the Statistical Sciences. Students will have the opportunity to learn about statistical and computational sciences and will engage in a research project in one of the following areas: Extreme Value Theory, Multiple Comparisons, Multivariate Survival Analysis, Modelling of the power grid, and other biomedical and Statistical Problems.

Students will receive a $6,000 stipend for the 10 weeks and up to a $600 to cover travel expenses. Lodging and meals will be provided for.

Eligibility

* Students majoring in mathematics, computer science, statistics, or related field who have had the calculus sequence and a course in linear or matrix algebra

  *Must not hold any undergraduate degree by the end of summer 2023
  *Must be a US citizen or permanent resident

Applications deadline is

April 10th, 2023
Application can be

requested from

jrojo@iu.edu

Mathematics Summer Research opportunity at CU Boulder

The opportunity is a 10-week summer research internship for a rising junior or senior through the Summer Multicultural Access to Research Training (SMART) program. For 2023, SMART begins Monday, June 5th and ends Friday, August 11th. You will be part of a community of students doing research in different departments at CU Boulder.

The SMART Program pays program costs. Interns receive:
Tuition for upper-division undergraduate credit in independent study at the University of Colorado at Boulder
Room and board for the 10-week program
Transportation to and from Boulder, Colorado
A stipend of $5,000 to be paid in 3 monthly increments of $1,666.67
Living arrangements: Interns live together in University of Colorado housing arranged by program staff. Meals are provided each day.

For more information on how to apply, <u>visit our website.</u>

Project description:

<u>Abstract algebra: group theory and formal group laws</u>

A formal group law is a power series $F(x,y)$ in two variables x and y that satisfies certain properties akin to the properties of an abelian group. For example, $F(x,F(y,z)) = F(F(x,y),z)$ for variables x,y,z, corresponding to associativity, while $F(x,y)=F(y,x)$ corresponding to commutativity. Two examples are $F(x,y) = x+y$ and $F(x,y) = x+y+xy$. Most examples are not this simple and in general $F(x,y)$ is a true power series in the sense that it does not have a finite expansion in monomials $x^n y^m$. Just like groups, we can define homomorphisms between two formal group laws $F(x,y)$ and $G(x,y)$: A homomorphism is a power series $f(X)$ such that $f(F(x,y)) = G(f(x), f(y))$. The automorphisms of $F(x,y)$ are the invertible homomorphisms from $F(x,y)$ to itself. The collection of all automorphisms from $F(x,y)$ to itself forms a group, denoted $Aut(F(x,y))$. Indeed, if $f(X)$ and $g(X)$ are automorphisms, we can compose them to form a new automorphism $f(g(X))$ and can check that this composition gives a group structure on $Aut(F(x,y))$. In this project, we will explore questions about the structure of the groups $Aut(F(x,y))$ for certain special choices of formal group laws $F(x,y)$.

Pre-requisite: An undergrad course in abstract algebra

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If this particular project is not for you, note that there are other projects in different fields (not just math) at CU Boulder. You can find a list of all CU Boulder projects here:

https://www.colorado.edu/initiative/cdi/undergraduate-stem-research/smart-program-information/smart-research-projects

There are also many math opportunities you can access through the Leadership Alliance
https://theleadershipalliance.org/summer-research-early-identification-program

2023 REU at Wayne State University

Electronic Computational Homotopy Theory research community - online Research Experience for Undergraduates [link: s.wayne.edu/echt/reu-2023]

We are eager to recruit participants from groups that have been historically underrepresented in the mathematical sciences. Our entirely online program has some unique features that could make it a good fit for students that are underprivileged in various ways.

Central States Math Undergraduate Research 2023 Announcement

Central States Math Undergraduate Research 2023
February 24-25, 2023

Our main speakers are Moira Chas (Stony Brook University) and Kyndra Middleton (Howard University).

We are welcoming registrations and abstracts. This is our Sixth edition, first since the pandemic.

Inquiries or registration: E-mail *cesmur@math.ksu.edu*.

To register, please email us if you wish to give a talk. Include the name of your school and have a brief supporting letter from your mentor or advisor letter sent to the same email address.

If you wish to give a talk, include a abstract of about 1/4 of a page. Funding through a grant from the National Science Foundation is available to help defray participants' travel and lodging expenses. Priority will be given to students presenting talks.

There will be no registration fee and we will have a bulk reservation at a discounted rate through the university at a nearby hotel.

We ask students to share rooms in order to be able to benefit the largest number of students with travel and lodging assistance.

MS program in Foundations of Data Science at NC State University

North Carolina State University is pleased to announce its new Master's program in Foundations of Data Science (MSFDS). This terminal degree program will help meet the demand for a new breed of data science professionals. Successful completion of the degree will equip graduates with both depth and breadth, balanced across three core disciplines lying at the heart of data science. Degree completion is based on course work and professional development activities, with no thesis or comprehensive examination requirement. In addition to a full-time on-campus option, part-time and online options are also available.

Priority deadline for Fall 2023 admission: February 28, 2023
For more information or to apply visit: https://go.ncsu.edu/fds

CoSIBS 2023 APPLICATION IS NOW OPEN

LIVE IN COLORADO THIS SUMMER

The Colorado Summer Institute in Biostatistics (CoSIBS) is now accepting applications for Summer 2023.

APPLY TODAY

This 6-week program exposes students to diverse research in the medical and public health setting using a wide array of the field of biostatistics and data science. Click here to learn more about the CoSIBS program.

Program Dates: **June 26-August 4, 2023**

BENEFITS
Interact with and be mentored by biostatisticians and clinical investigators that are engaged in biomedical research.
Learn the principles of applied biostatistics and data science.
Receive credit for 4 semester hours at the University of Colorado Denver.
Tuition and fees paid for by the program.
Paid travel to and from Denver, room and meal stipend.

APPLICATION MATERIALS
Personal statement of interest
Electronic copies of college transcripts
A letter of recommendation

CENTER FOR INNOVATIVE DESIGN AND ANALYSIS (CIDA) EXTENDED FELLOWSHIP
Two fellowships providing additional research experience before and/or after CoSIBS are available for participants from disadvantaged backgrounds. Learn if you meet the criteria.

SUMMER REU IN DATA DRIVEN MODELING AT THE UNIVERSITY OF ARIZONA

University of Arizona's NSF-funded Research Training Group (RTG) in Data Driven Discovery comprises faculty, postdocs, graduate & undergraduate students working on diverse problems in data driven modeling and applications, including neuroscience, turbulence, medical imaging, and much more. The RTG provides broad training in foundational mathematical and computing skills needed for research in data driven modeling.

The Research Experience for Undergraduates (RTG-REU) will take place summer 2023, approximately June through early August. The application deadline is February 28.

For more information on the RTG Research Experience for Undergraduates (REU), visit
http://math.arizona.edu/~klin/reu

For more information on the RTG project, visit
http://math.arizona.edu/~klin/rtg

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Helen Zhang, hzhang@math.arizona.edu

Diversity commitment: We encourage applications from traditionally under-represented groups. There are some unique funding opportunities for members of such groups including Graduate Access Fellowships for students who are first generation college students, have financial need, or have had other significant disadvantages or challenges and the NSF Bridge to Doctorate Program. The University of Arizona is an Emerging Hispanic Serving Institution and an American Indian and Alaska Native-Serving Institution.

Spring 2023 Scientific Workshops at MSRI / SLMath

The Mathematical Sciences Research Institute (MSRI) in Berkeley, California, now becoming the Simons Laufer Mathematical Sciences Institute (SLMath) in 2022-23, welcomes registrations for our upcoming Spring 2023 workshops, listed below. SLMath workshops are free of charge to attend, thanks to the generous support of our funders, including the National Science Foundation.

(Please check **www.msri.org/workshops** for full details, as some workshop dates or details may be subject to change. An updated schedule of all talks will be posted by organizers in advance of each event.)

- February 2-3, 2023: **Connections Workshop: Diophantine Geometry**
Organizers: Jennifer Balakrishnan (Boston University), Yunqing Tang* (University of California, Berkeley)

- February 6-10, 2023: **Introductory Workshop: Diophantine Geometry**
Organizers: Hector Pasten (Pontificia Universidad Católica de Chile), Yunqing Tang (University of California, Berkeley), Shou-Wu Zhang* (Princeton University)

- March 13-17, 2023: **Shimura Varieties and L-functions**
Organizers: Michael Harris (Columbia University), David Loeffler (University of Warwick), Elena Mantovan (California Institute of Technology), Christopher Skinner (Princeton University), Sarah Zerbes (ETH Zürich), Wei Zhang* (Massachusetts Institute of Technology)

- March 22-24, 2023: **Critical Issues in Mathematics Education 2023: Mentoring for Equity**
Organizers: Pamela Harris (University of Wisconsin-Milwaukee), Abbe Herzig (AHH Consulting), Aris Winger (Georgia Gwinnett College), Michael Young (Carnegie Mellon University)

- April 17-21, 2023: **Degeneracy of Algebraic Points**
Organizers: Jennifer Balakrishnan (Boston University), Mirela Ciperiani* (University of Texas, Austin), Philipp Habegger (University of Basel), Wei Ho (University of Michigan), Hector Pasten (Pontificia Universidad Católica de Chile), Yunqing Tang (University of California, Berkeley), Shou-Wu Zhang (Princeton University)

- April 15-19, 2024: **Recent Developments in Commutative Algebra**
Organizers: Daniel Erman (University of Wisconsin-Madison), Linquan Ma (Purdue University), Karl Schwede* (University of Utah), Karen Smith (University of Michigan), Andrew Snowden (University of Michigan), Irena Swanson (Purdue University) * indicates lead organizers.

Workshop Funding: Established researchers, postdoctoral fellows, and graduate students are invited to apply for funding. Funding awards are typically made eight weeks before the workshop begins. Requests received after the funding deadlines are considered only if additional funds become available.

Resources for Workshop Attendees: To allow visitors to fully participate in its scientific activities, SLMath is pleased to be able to offer 1) a private room for nursing parents and 2) childcare grants to researchers with children under the age of 17. One of the objectives of SLMath's family support program is to contribute toward our goal of enabling the participation of women and members of other historically underrepresented groups in its programs, workshops, and summer graduate schools.

These flexible grants may be used for reimbursement of child care expenses incurred in Berkeley, or at home, including airfare for children and support for companion caregivers or hired childcare providers in Berkeley or to cover the costs of such help at home. Please note that, because these funds are taxable, they are available only to US Citizens and Permanent Residents, and foreign visitors with a visa status that allows for compensation, such as a J1. We are deeply grateful to our Family Support donors for their generosity.

SLMath is committed to the principles of Equal Opportunity and Affirmative Action. Students, recent PhDs, women, and minorities are particularly encouraged to apply.

MSRI / SLMath has been supported from its origins by the National Science Foundation, now joined by the National Security Agency, over 100 Academic Sponsor Institutions, by a range of private foundations, and by generous and farsighted individuals.

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SEMINARIO INTERUNIVERSITARIO DE INVESTIGACIÓN EN CIENCIAS MATEMÁTICAS

Dr. Felix Gotti
Massachusetts Institute of Technology
Dr. Irena Swanson
Purdue University
Dr. Ayman Badawi
American University of Sharjah

Dedicado a la memoria del
Dr. Julio E. Barety Machin

UPR
MAYAGÜEZ

FEBRERO
24-25, 2023

Tenure-track Assistant Professor Position in Statistics Announced at Georgia State University

The Department of Mathematics and Statistics at Georgia State University invites applications to fill a tenure-track Assistant Professor position in Statistics with a start date of August 2023.

Candidates in all areas of statistics are encouraged to apply. At the time of appointment, applicants should have a PhD in Statistics, Biostatistics, Data Science, or a closely related field. Preferred candidates will be expected to demonstrate a commitment to excellence in research and teaching in applied statistics and data science, as well as mentoring undergraduate and graduate students of diverse backgrounds, and have a strong desire to work in a cross-disciplinary, collaborative environment.

The Department offers BS in Mathematics, MS in Mathematics with no concentration or concentrations in Bioinformatics, Biostatistics, Discrete Mathematics, Scientific Computing, Statistics, as well as Statistics and Allied Field, and PhD in Mathematics and Statistics with concentrations in Mathematics, Bioinformatics, and Biostatistics. Faculty members in the department established nationally and internationally recognized research programs in both mathematics and statistics, including applied statistics, biostatistics, data science, dynamical systems, complex networks, machine learning, inverse problems, mathematical biology, optimization, computational mathematics, systems biology, modeling neural, cardiovascular, and multi-organ systems, physical and biomedical image analysis, as well as in the collaboration with other GSU departments in epidemiology, pathogen genetics, immunology, and inflammation, and translational biomedical sciences. For more information please visit our website at https://www.mathstat.gsu.edu/.

GSU, the largest university in Georgia, is an enterprising urban research university located in downtown Atlanta and home to one of the most diverse student bodies in the country. It is a national leader in applying innovative measures to drive student success and research growth. Georgia State University is committed to diversifying its faculty and generating innovative research. We strongly encourage applications from members of underrepresented groups.

Applicants should submit: 1) a cover letter outlining qualifications and research interests, 2) a curriculum vitae with a publication list and (optional) a teaching and funding list, 3) a research statement, including current and future research agenda, and 4) a teaching statement with evidence of aptitude or ability to teach at the undergraduate and graduate levels with a diverse student body, including the mentoring of women and under-represented minorities. All materials should be submitted online at http://www.mathjobs.org. Applicants should also arrange for three letters of recommendation to be submitted online at http://www.mathjobs.org.

A formal review of applications will begin on February 8, 2023, and will continue until the position is filled. An offer of employment will be conditional upon background verification. Georgia State University is an Equal Opportunity Employer and does not discriminate against applicants due to race, ethnicity, gender, veteran status, or on the basis of disability or any other federal, state, or local protected class.

Multiple Positions Announced
at the University of Arizona

THE UNIVERSITY OF ARIZONA
COLLEGE OF SCIENCE
School of Mathematical Sciences

The Department of Mathematics at the University of Arizona has multiple openings at the postdoctoral and tenure track levels, listed below.

- **Postdoctoral Research Associate I,** Mathematics or a related field: https://www.mathjobs.org/jobs?joblist-242-20872

- **Postdoctoral Research Associate I,** RTG in Applied Mathematics and Statistics for Data-Driven Discovery: https://www.mathjobs.org/jobs?joblist-242-21300

- **Assistant/Associate Professor,** Applied Mathematics, broadly construed: https://www.mathjobs.org/jobs?joblist-242-21051

- **Assistant/Associate Professor,** Mathematics: https://www.mathjobs.org/jobs?joblist-242-21052

- **Assistant/Associate Professor,** Statistics and Data Science, broadly construed: https://www.mathjobs.org/jobs?joblist-242-21053

For further inquiries, please contact Alejandra Gaona, agaona@math.arizona.edu, 520-621-2868.

Statistician Position Announced at North Carolina State University

NC STATE UNIVERSITY

The North Carolina State University College of Agriculture and Life Sciences seeks an outstanding statistician to develop and provide statistical consulting services within the College to advance statistical analysis capacity.

For more detailed information and to apply use the Quick Link: **https://jobs.ncsu.edu/postings/172482**

Duties of this position include, but are not limited to:
Designing and Implementing Solutions:

- Design, implement, and document technical statistical solutions to serve the statistical needs of faculty, graduate students, and research/extension staff across CALS.
- Collaborate with interdisciplinary teams to support research initiatives across the college and institution through study design, monitoring and data collection, analyses, and interpretation of results.
- Collaborate with other staff in the development, implementation, and instruction on statistical software and methodology.
- Provide clients with informed advice on the appropriate use of statistical software packages such as SAS, JMP, SPSS, R, Python, or others for the experiment design and data analyses.

Research New Methods and Advise Management:

- Assist management in designing systems and strategies as the statistical needs of the faculty, staff, and students evolve.
- Monitor advances and provide guidance on statistical software and methodologies that should be adopted by CALS and the institution.
- Advance knowledge of commonly used statistical methods, descriptive and inferential statistics in agriculture and life science research.

Project Management:

- Manage projects that require independent research and implementation. Exercise judgement with latitude on actions and decisions.

Other Duties and Responsibilities:

- Mentor consultees, provide leadership in associated tasks to document the analyses, create summaries, present results in written report and verbal forms, write statistical text for study reports and publications, and prepare methods sections and analysis plans for incorporation into abstracts, manuscripts, and grants, in many cases as a co-author or co-PI, where appropriate.

Minimum Education and Experience: Master's degree or PhD in statistics or related discipline, or in an agricultural science, with demonstrated skills in statistics sufficient to serve the College;

Other Required Qualifications include: Mid-to late career with Masters or PhD in statistics or related discipline and at least 2-4 years' experience.

Open Rank Faculty Position Announced
at North Carolina State University

NC STATE UNIVERSITY

Assistant/Associate/Full Professor (Open Rank) position in Statistics at NC State

The [Department of Statistics](#) at North Carolina State University seeks to hire multiple tenured/ tenure-track faculty for an August 2023 start, and all ranks will be considered. Responsibilities for this position include teaching graduate and undergraduate courses, research, advising students, doctoral student research supervision and contributing to program development and scholarly activities in the department. Service to the Department, College, University, and profession are also a requirement.

The expectation is also to achieve outstanding research, teaching, mentoring, and collaborations on campus and world-wide, within a cohesive and diverse department, where all students, faculty, and staff receive fair and equitable treatment. Applicants with interests and expertise in theoretical or methodological research in any area of statistics or biostatistics will be considered. Candidates with interests in data science, machine learning, and modern methods of data analysis more generally are encouraged to apply.

For more details and to apply, check out: https://jobs.ncsu.edu/postings/169840 and for any inquiry about the position, please contact by sending email to group-stats-search@ncsu.edu and for more about the department check out the webpage: https://statistics.sciences.ncsu.edu/

Visiting Assistant Professor Positions in
Mathematics Announced at Purdue University

The Department of Mathematics in the College of Science at Purdue University invites applications for multiple three-year positions as Golomb Visiting Assistant Professor (for new and very recent Ph.D.s). These positions come at a time of dynamic leadership and with significant investment in the College of Science – Purdue's second-largest college, comprising the mathematical, physical and life sciences. For information about our department, see www.math.purdue.edu.

Qualifications: These positions will commence August 2023 and are open to mathematicians who demonstrate exceptional research promise and a strong teaching record. Ph.D. (or its equivalent) in mathematics or closely related field by August 10, 2023 is required. Successful candidates will have research interests in common with Purdue faculty and a record of early research excellence.

Duties include continued research production, engagement with faculty and students, and teaching of undergraduate and graduate mathematics courses.

Purdue University, the College of Science, and the Department of Mathematics are committed to advancing diversity in all areas of faculty effort, including discovery, instruction, and engagement. Candidates are encouraged to address in their cover letter how they are prepared to contribute to a climate that values diversity and inclusion. Purdue University, the College of Science, and the Department of Mathematics are committed to free and open inquiry in all matters. Candidates are encouraged to address in their cover letter how they are prepared to contribute to a climate that values free inquiry and academic freedom.

Applications should be submitted online through www.mathjobs.org and should include (1) the AMS cover sheet for academic employment, (2) a cover letter, (3) a curriculum vitae, (4) a research statement, (5) a teaching statement, and (6) three letters of recommendation, one of which discusses the candidate's teaching qualifications. In addition, for purposes of equity, to be considered for the position, applicants will also need to create a profile including voluntary demographic data at SuccessFactors. Reference letter writers should be asked to submit their letters online through www.mathjobs.org. Direct all inquiries to mathexec@purdue.edu.

All applications received by November 30, 2022 will be given full consideration. Some offers will be made before the end of January 2023. A background check will be required for employment in these positions.

Purdue University is an EOE/AA employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.

Multiple Teacher-Scholar Postdoc Fellow Positions in Math Announced at Wake Forest University

WAKE FOREST
U N I V E R S I T Y

Department of Mathematics and Statistics
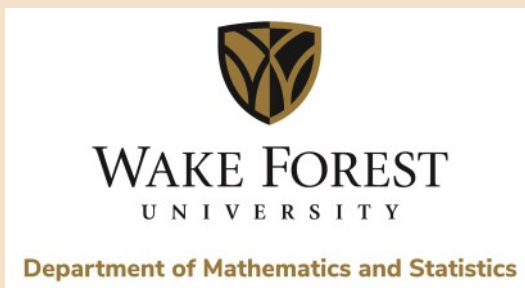
The Department of Mathematics at Wake Forest University invites applications for at least two Teacher-Scholar Postdoctoral Fellow positions available beginning July 2023. Applications are invited from all areas of Mathematics including Mathematics, Applied Mathematics, and Computational Mathematics. Holders of this position will teach two courses per semester.

The Department of Mathematics at Wake Forest University takes seriously the charge to be a space which is truly welcoming to all, and we are actively engaged in work to remove barriers to success and create new systems of support for students and faculty. We especially encourage applications from those belonging to groups traditionally underrepresented in the sciences. For details, please see **http://www.math.wfu.edu**.

We seek highly qualified candidates who have a commitment to excellence in both teaching and research. Primary consideration will be given to candidates whose research interests overlap with existing faculty. A Ph.D. in Mathematics, Applied Mathematics or a related area is required. The department has 26 members and offers both a B.A. and a B.S. in Mathematics, a B.S. in Applied Mathematics, and a B.S. in Mathematical Economics.. The department has a graduate program offering an M.S. in Mathematics.

Wake Forest University is a private, coeducational institution dedicated to academic excellence in liberal arts, graduate and professional education. Founded in 1834, the University is ranked among the top 30 national universities. With 5,400 undergraduates and 3,300 graduate and professional students, the student-faculty ratio is 11:1. Wake Forest is a collegiate university offering a vibrant intellectual community with a rich cultural life, an impressive array of facilities, and an active athletics community. The University has a deep institutional commitment to public service and engagement with the world, as indicated by the motto "Pro Humanitate." For quick facts about the University, go to **https://admissions.wfu.edu/facts**.

A complete application will include a letter of application, a curriculum vitae, a research statement, a teaching statement, copies of graduate transcripts, and three letters of recommendation, at least one of which largely addresses teaching. Applications will be accepted until the position is filled, but to guarantee full consideration, applications should be complete by January 15th, 2023. Applicants should post materials electronically at **https://www.mathjobs.org/jobs/list/21210**. Inquiries may be sent to **raynorsg@wfu.edu**.

Wake Forest University is an AA/EO employer and values an inclusive and diverse learning community and campus climate.

Two Open-Rank Positions in Mathematics Announced at Amherst College

The Amherst College Department of Mathematics and Statistics invites applications for two full-time open-rank positions in mathematics (at either the tenure-track or tenured level) that will begin on July 1, 2023. For one of the positions, we have a strong preference for an applied mathematician; the other is open to all research areas of mathematics. Any appointment with tenure will be contingent upon a positive tenure review.

Amherst College is proud of its efforts to achieve and sustain diversity of all kinds within our community. For example, nearly one-quarter of Amherst's students are Pell Grant recipients, 45 percent identify as domestic students of color, 9 percent are international students, and 13 percent are first-generation college students. Our expectation is that the successful candidate will excel at teaching and mentoring students who are broadly diverse with regard to race, ethnicity, socioeconomic status, gender, nationality, sexual identity, disability, and religion. The department and college are also committed to increasing the diversity of our faculty and to helping all members of our community thrive. We strongly encourage potential candidates from underrepresented and/or historically-excluded groups to apply.

Responsibilities for these positions include teaching two courses per semester, supervising undergraduate theses, and supporting the mathematics program at the college. The successful candidates will also be expected to contribute to the department's efforts to address diversity, equity, and inclusion, and to participate in department governance and intellectual community. Applicants must hold a Ph.D. in mathematics or a related field, or must complete all requirements for that degree, before the start of the appointment. They must demonstrate a strong commitment to research and be passionate about teaching mathematics to undergraduates at all levels.

The college has a generous sabbatical policy for tenure-track and tenured faculty, and provides annual funding to support conference travel and research. There is also significant support for course innovation and development through the Center for Teaching and Learning.

Applicants are asked to submit a cover letter, curriculum vitae, research statement, teaching statement, and arrange for at least three letters of recommendation (including at least one that specifically addresses teaching experience) to be submitted to Mathjobs.org.

Applications will be accepted until the positions are filled, **but all applications received by December 1, 2022, will be guaranteed consideration.**