★★★ Upcoming Events

Thoughts from the Director...

David Goldberg

Executive Director
of the
Math Alliance

Well, we have come to the end of another trying year. Even though I just wrote one of these articles a couple of weeks ago, it seems like the earth is still shifting under our feet and our outlook changes with each new piece of pandemic data. So, I thought I would look back at what I wrote at this time last year. Maybe that was a mistake, even though I was pretty sure of what I would find. As with many other points in our COVID odyssey, I had an outlook that proved a bit naïve, or shortsighted. I said our lives would be much closer to normal than a year ago. For many that is true, but things are not as close to normal as I thought they would be. Also, I was sure I would be writing this piece with great optimism for 2022. That is true too, but it is a much more guarded optimism than I had pictured. Last year at this time we were just starting to see folks get vaccinated, so it was natural to have a positive outlook. It was also a time to marvel at a scientific achievement, the rapid development of these vaccines, and to note how data science plays a key role in all of that.

Even when I wrote last month's notes, I was looking forward to the JMM with great optimism. Now, almost every day, I hear from a colleague that they are no longer going to attend and I am weighing whether it still makes sense to go as well.

Despite all of this, I remain hopeful for the future, and especially for the future of the Math Alliance. Our Mentors continue to devote a great amount of energy to helping students succeed academically. They also help students chart a path for professional success. I hear from Math Alliance Scholars who are doing great things, and contributing to the quantitative science professions in a wide variety of ways. Many are even Math Alliance mentors now. I think we are continuing to learn things about ourselves, and about how to do what we do that will be valuable long after the pandemic is over (whenever that is). We have to savor the successes, and try to limit our shortcomings, and I know we'll be doing better in 2022.

So, I hope you all have healthy, happy, and safe holidays, and a great new year. I am looking forward to sharing it with you.

IMSI's 2022 Summer Internship Program

The IMSI's [2022 Summer Internship program](#) is now accepting applications.

The program is open to Ph.D. students in mathematics and statistics Ph.D. programs in the US whose expected graduation date is no earlier than 8/31/2022. This includes international students who can arrange work authorization, e.g. through CPT.

The deadline for applications is January 7, 2022. Questions can be directed to internships@imsi.institute.

NSF Research Fellowships Opportunity: (MPS-Ascend)

A new Program Solicitation [NSF 22-501](#) for the Mathematical and Physical Sciences Ascending Postdoctoral Research Fellowships (MPS-Ascend) is now available.

The submission deadline is January 6, 2022.

The twofold purpose of the MPS-Ascend program is to support future scientific leaders in MPS fields by facilitating their participation in postdoctoral research environments that will have maximal impact on their future scientific development, and to broaden the participation of those underrepresented (including Blacks or African Americans, Hispanics, Latinos, Native Americans, Alaska Natives, Native Hawaiians, and other Native Pacific Islanders) in science areas supported by MPS.

Fellowship candidates must be U.S. citizens, nationals, or legally admitted permanent residents. Proposals must present research, professional development, and broadening participation plans that fall within the purview of one of the Divisions within MPS, including Mathematical Sciences (DMS). Proposals are submitted by the candidate via Fastlane or Grants.gov to the Office of Multidisciplinary Activities within the Directorate for Mathematical and Physical Sciences. Be sure to include an appropriate secondary unit of consideration; the code for DMS is "7335 Workforce in the Mathematical Sciences."

The duration of a Fellowship award is between 12 and 36 months and the amount is $100,000 per year, including stipend, fringe benefits, and other expenses. For the full program description, eligibility, and other solicitation specific requirements, please see this [link](#).

DMS program officers representing the MPS-Ascend team are Marian Gidea (mgidea@nsf.gov), Swatee Naik (snaik@nsf.gov), and Sandra Spiroff (sspiroff@nsf.gov).

The Math Alliance had two past Scholars win this award this year! Congratulations again to **Dr. Ranthony Edmonds and to Dr. Talon Johnson!**

GRAD-Future Workshop

Monday-Tuesday, May 16-17, 2022
North Carolina State University
Department of Statistics

The NC State Department of Statistics GRAD-Future Workshop is a two-day all-expenses paid workshop for rising juniors and seniors who are interested in learning more about graduate study in Statistics or Data Science and who are committed to working toward social justice, diversity, equity and inclusion.

The goal of this workshop is to give undergraduate students an insider's perspective on what graduate school life is like, how to choose a program and prepare yourself for it, and what to expect and what is expected of graduate students in Statistics and related fields. Participants will meet with current graduate students, alumni and faculty to hear their perspectives. The workshop will be especially useful for students from populations typically underrepresented in STEM graduate school programs.

Topics:
- Why go to graduate school?
- What types of programs are there and how do they differ?
- How to prepare? What coursework and research experiences are important?
- How to fund graduate studies?
- How to find a good match?

Selection Criteria: Those who meet the following criteria are encouraged to apply.
- Individuals with the ability to contribute in meaningful ways to diversity, equity, inclusion and social justice.
- Rising junior or senior interested in graduate study in Statistics or Data Science
- Demonstrated potential for acceptance into graduate school
- Availability during the program dates

Application deadline: January 15, 2022   Application instructions and application form

We look forward to receiving your application.

Latest GRE Requirements

With many students applying to graduate school this fall, GRE scores is always a hot topic. Here is a spreadsheet with the **most up-to-date GRE requirements** for Mathematics graduate programs in the US.

The list was created by **Emily Winn** (email: emily_winn@brown.edu; Twitter: @EmilyWinn13).

If you have any updates to the list, you can contact her directly.

A Conference Celebrating the Accomplishments and Influences of Alan W. Reid

A conference on the interactions between geometry, arithmetic, and groups will be held at the **University of Texas, Austin, June 20-24, 2022**, celebrating the accomplishments and influences of Alan W. Reid.

In addition to the invited talks there will be a series of lightning talks providing the opportunity for more participants to share their research.

Registration: is now open! Please fill out this form, and if you are a graduate student/postdoc and would like funding (assuming this becomes available), please have your advisor or postdoc mentor write us a short message, sent to the email below. **Registration closes April 30, 2022.** Priority for funding will be given to junior participants and those from under-represented groups and schools.

Hotel: Click here for information. More details, including specifics regarding accommodations, will be coming soon.

Organizers: Jason Callahan, Eric Chesebro, Jason Deblois, Cameron Gordon, Chris Leininger, Ben McReynolds, Kate Petersen.

For childcare options, please see the Extend-A-Care YMCA site.

Email any questions to: awr2022@googlegroups.com.

See the conference webpage for more information and for a list of speakers.

The Department of Homeland Security (DHS) Science and Technology (S&T) Directorate Office of University Programs sponsors the **DHS Summer Research Team Program for Minority Serving Institutions** to provide faculty and student research teams with the opportunity to conduct research at the university-based DHS Centers of Excellence .

Benefits Include
Weekly Stipends starting at:
Faculty—$1,200,
Graduate Students—$700,
Undergraduate Students—$600
Housing Allowance:
Available to qualified students.
Travel Allowance: One round trip to the Center of Excellence for participants who live more than fifty miles, one-way, from their assigned Center.
Follow-on Funding: Up to $50,000 in Follow-on funding may be awarded to faculty to continue research and collaboration efforts with the DHS Center for the academic year following the summer participation.

DEADLINE –January 10, 2022

Homeland Security
Science and Technology

2022 SUMMER RESEARCH TEAM PROGRAM FOR MINORITY SERVING INSTITUTIONS

Application NOW OPEN

For more information, visit our website:
http://www.orau.gov/dhseducation/faculty/index.html

Managed by ORAU through the Oak Ridge Institute for Science and Education (ORISE) under an agreement between DHS and the U..S. Department of Energy (DOE).

OAK RIDGE INSTITUTE
FOR SCIENCE AND EDUCATION
Shaping the Future of Science

IPAM Accepting Applications for Postdoctoral Scholars

The Institute for Pure and Applied Mathematics (IPAM) at UCLA is seeking to recruit up to three Simons Postdoctoral Scholars (SPD) funded by the Simons Foundation. The appointment will be for one calendar year, beginning August 1, 2022 and carry a salary of up to $85,000 annually.

During the 2022-23 academic year, IPAM will host two long programs: *Computational Microscopy* and *New Mathematics for the Exascale: Applications to Materials Science*. A successful SPD candidate will pursue a robust program of mathematical research that connects with at least one of these programs. SPD candidates are expected to stay in residence at IPAM for the academic year. They will be supervised by members of the IPAM directorate, or other UCLA faculty.

A PhD in Mathematics, Statistics, or a related field received in May 2017 or later is required. Women and minorities are especially encouraged to apply.

How to Apply:

Applications must be submitted at https://recruit.apo.ucla.edu/JPF07106. Applications should include a CV, a research statement addressing connections with IPAM programs, a statement on contributions to Equity, Diversity, and Inclusion (EDI), and at least three letters of recommendation. All applicants should indicate the AMS Subject Classification that most accurately represents their research area. Applications will receive fullest consideration if received by **January 1, 2022.** Questions about the position/application may be sent to ipam@ucla.edu.

More Information about IPAM:

IPAM is an NSF mathematics institute whose principal objective is to encourage cross-fertilization between pure and applied mathematics and other scientific disciplines. IPAM provides a scientific environment where new collaborations can begin and to create active working research groups centered on the topic of the program.

IPAM offers two long programs per year, plus several shorter programs throughout the year. Each long program has significant participation from math and other disciplines, or from multiple fields within mathematics, and consists of tutorials, workshops and a culminating retreat off-campus. IPAM also sponsors a summer undergraduate industrial research program and a one to three-week summer school. Further information on IPAM can be found at http://www.ipam.ucla.edu.

Tenure-Track Assistant Teaching Professor Position in Biostatistics Announced at the University of Washington

BIOSTATISTICS
SCHOOL OF PUBLIC HEALTH

The Department of Biostatistics within the School of Public Health at the University of Washington (UW) is a leading center of excellence for the development and application of statistical methods and theory in health sciences. It has longstanding partnerships with many local research institutes and with the Department of Statistics, with which it shares core courses in its rigorous training programs. More information can be found at https://www.biostat.washington.edu/about.

The Department of Biostatistics invites applications for one faculty position at the rank of Assistant Teaching Professor without tenure. This is a full time (100% FTE), 12-month service period position with an anticipated start date of Fall 2022. The position is non-tenure eligible. Salary will be based on qualifications and experience.

The successful candidates will:
i. teach 4 – 6 Biostatistics courses per year (quarter system) including both undergraduate and graduate courses.
ii. provide educational leadership in the Department's teaching program with emphasis on innovative pedagogy and attention to diversity, equity and inclusion;
iii. contribute to the departmental community by engaging in seminars and departmental outreach activities;
iv. play an active role in Department, School and University leadership, for example, by engaging in governance, serving on key committees, and helping to continually update educational vision and strategy.

QUALIFICATIONS. Candidates must have a PhD (or foreign equivalent) in biostatistics, statistics, or a related field and must have demonstrated excellence in teaching Biostatistics and/or Statistics at the university level.

APPLICATION INSTRUCTIONS. All applicants are asked to submit:
1. a cover letter describing what you see as your future potential contribution to the educational mission of the Department;
2. an up-to-date curriculum vitae detailing publication, teaching and (if applicable) funding history;
3. a statement describing your teaching values, and practices; please comment on your perspective regarding different teaching modalities, engaging students from varied disciplines and mathematical backgrounds, and teaching at scale.
4. a statement describing demonstrated commitment and activity in support of diversity, equity and inclusion;
5. contact information for three (3) references.

This institution is using Interfolio to conduct this search. Applicants can submit all application materials free of charge via http://apply.interfolio.com/94845. **Review of applications will begin on January 17, 2022** (revised from original date of December 1, 2021). Applicants who submit all required documents by January 17, 2022 are guaranteed full consideration. Applications received after January 17, 2022 will be reviewed on a weekly basis at the discretion of the search committee until the position is filled or the search is closed. **CONTACT INFORMATION.** For questions, please contact Ashneel Reddy at bacadhr@uw.edu.

COMMITMENT TO DIVERSITY. The Department recognizes that health disparities stem from inequity, and encourages and supports the multiple identities of staff, faculty, and students including, but not limited to, socioeconomic status, race, ethnicity, language, nationality, sex, sexual orientation, gender identity and expression, culture, geography, spiritual practice, mental and physical disability, and age. It strives to develop and maintain increased representation and recognition of each dimension of diversity among its faculty, staff, and students. The department has an active Equity, Diversity and Inclusion committee. A summary of the mission and the activities of that committee can be found online (www.biostat.washington.edu/about/diversity).

The University of Washington is committed to building diversity among its faculty, librarian, staff, and student communities, and articulates that commitment in the UW Diversity Blueprint (www.washington.edu/diversity/diversity-blueprint). Additionally, the University's Faculty Code recognizes faculty efforts in research, teaching and/or service that address diversity and equal opportunity as important contributions to a faculty member's academic profiles and responsibilities (www.washington.edu/admin/rules/policies/FCG/FCCH24.html#2432).

EQUAL EMPLOYMENT OPPORTUNITY. The University of Washington is an affirmative action and equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, creed, religion, national origin, sex, sexual orientation, marital status, pregnancy, genetic information, gender identity or expression, age, disability, or protected veteran status.

Tenure-Track Open Rank Position in
Biostatistics Announced at the University of Washington

The Department of Biostatistics within the School of Public Health at the University of Washington (UW) is a leading center of excellence for the development and application of statistical methods and theory in health sciences. It has longstanding partnerships with many local research institutes and with the Department of Statistics, with which it shares core courses in its rigorous training \programs. More information can be found at https://www.biostat.washington.edu/about.

The Department of Biostatistics invites applications for one faculty position at the rank of Professor (with tenure), Associate Professor (with tenure) or Assistant Professor (tenure-track). This is a full time (100% FTE), 12-month service period position with anticipated start in Fall 2022. Salary and rank will be commensurate with qualifications and experience.

The successful candidates will be expected to:
1. maintain an established high-impact statistical research program supported by external grants;
2. participate in collaborative research with members of the Department, its partners and/or the greater scientific community;
3. provide educational leadership in the Department's teaching program, including formal classroom teaching and mentoring of student research, with emphasis on innovative pedagogy and attention to equity, diversity and inclusion;
4. contribute to the departmental community by engaging in seminars and other departmental outreach activities, including in serving on key committees;
5. actively promote diversity, equity and inclusion in the Department and the field of biostatistics;
6. play an active role in Department, School and/or University governance and leadership.

QUALIFICATIONS. Candidates must have a PhD or DSc (or foreign equivalent) in biostatistics, statistics, or a related field. It is critical that they also have an established record of high-quality research, teaching, and independent funding.

APPLICATION INSTRUCTIONS. All applicants are asked to submit:
1. a cover letter describing what they see as their future potential contribution (e.g., scientific leadership, pedagogy, diversity) to the discipline and Department;
2. an up-to-date curriculum vitae detailing publication, teaching and funding history;
3. a statement describing demonstrated commitment and activity in support of diversity, equity and inclusion;
4. contact information for three (3) references.

This institution is using Interfolio to conduct this search. Applicants can submit all application materials free of charge via http://apply.interfolio.com/95846. **Review of applications will begin on January 17, 2022** (revised from original date of December 1, 2021). Applicants who submit all required documents by January 17, 2022 are guaranteed full consideration. Applications received after January 17, 2022 will be reviewed on a weekly basis at the discretion of the search committee until the position is filled or the search is closed. **CONTACT INFORMATION.** For questions, please contact Ashneel Reddy at bacadhr@uw.edu.

COMMITMENT TO DIVERSITY. The Department recognizes that health disparities stem from inequity, and encourages and supports the multiple identities of staff, faculty, and students including, but not limited to, socioeconomic status, race, ethnicity, language, nationality, sex, sexual orientation, gender identity and expression, culture, geography, spiritual practice, mental and physical disability, and age. It strives to develop and maintain increased representation and recognition of each dimension of diversity among its faculty, staff, and students. The department has an active Equity, Diversity and Inclusion committee. A summary of the mission and the activities of that committee can be found online (www.biostat.washington.edu/about/diversity).

The University of Washington is committed to building diversity among its faculty, librarian, staff, and student communities, and articulates that commitment in the UW Diversity Blueprint .Additionally, the University's Faculty Code recognizes faculty efforts in research, teaching and/or service that address diversity and equal opportunity as important contributions to a faculty member's academic profiles and responsibilities.

EQUAL EMPLOYMENT OPPORTUNITY. The University of Washington is an affirmative action and equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, creed, religion, national origin, sex, sexual orientation, marital status, pregnancy, genetic information, gender identity or expression, age, disability, or protected veteran status.

Postdoctoral Positions in Mathematics Announced at the University of Washington

W UNIVERSITY *of* WASHINGTON

The University of Washington's Department of Mathematics invites applications for one or more non-tenure-track postdoctoral positions. The initial appointment is for a period of twelve months, full-time, with the possibility of renewal for a total period of up to three years, to begin in September 2022. Applicants are required to have a PhD, or foreign equivalent, by the starting date, and to be highly qualified to teach a full-time load of undergraduate and graduate courses while also engaging in ongoing and active independent research.

Priority will be given to applicants whose complete applications, including recommendations, are received by **December 1, 2021**. For the full job description and application, please visit http://apply.interfolio.com/95662.

Tenure-Track Position in Mathematics Announced
at the University of Washington

W UNIVERSITY of WASHINGTON

The Department of Mathematics in the College of Arts and Sciences at the University of Washington (Seattle) invites applications for a full-time, open-rank tenure-stream position. Candidates will be considered for the Assistant, Associate, or Full Professor rank, either tenure-track or tenured, depending upon experience and qualifications. This position has an anticipated start date of Autumn 2022 and will have a 9-month service period. UW faculty engage in teaching, research, and service. The successful candidate will be expected to teach a full-time load of undergraduate and graduate courses, to engage in mentoring, and to participate in service to the department and the profession.

The Department of Mathematics at the University of Washington is committed to fostering a diverse and inclusive academic community: visit https://math.washington.edu/diversity-commitment. We encourage applications from individuals whose backgrounds or interests align with this commitment. Candidates must include a statement in this regard in their application.

Applicants are required to have a PhD, or foreign equivalent, and an established and strong research record in mathematics. The candidate's research must be in geometry, interpreted broadly as the study of manifolds with structure; or topology, including algebraic, geometric, low-dimensional, and/or combinatorial topology.

We seek candidates who are leaders in their field, as demonstrated by their records in publication, mentoring, teaching, diversity, and service. Junior candidates are encouraged to also apply for our tenure-track assistant professor position.
Applications should include a cover letter, the American Mathematical Society's Cover Sheet for Academic Employment, a curriculum vitae, statements of research, diversity, and teaching interests, and at least three letters of recommendation. The cover letter should express how the candidate hopes to fit in our department.

Review of applications will begin on November 15, 2021, and continue until the position is filled. We will request letters of recommendation from selected candidates, and once requested, those must be received by November 29, 2021.

If you have additional letters regarding teaching or research that you would like to include with your application, you may do so by uploading them via the "Additional Documents" feature on Interfolio. Candidates must include a diversity statement that addresses their contributions to diversity, equity, and inclusion. This should be a one-to-two-page statement highlighting past contributions and future plans to advance equity, diversity, and inclusion, with attention to how the applicant has supported the success of students from racial, ethnic, and gender backgrounds that are underrepresented in mathematics.

The research, teaching, and diversity statements can be organized in a variety of ways, but each should, at a minimum, communicate the following information:

1. the broad vision and long-term impact that the applicant seeks;
2. concrete examples of prior activities and accomplishments, if any, that showcase the ability of the applicant to achieve their vision;
3. immediate plans and specific strategies for addressing that vision.

The research statement should be written for a broad mathematical audience, so that any mathematician can appreciate the impact of the candidate's work, and preferably is 5–7 pages (plus references).

The teaching statement should discuss past teaching and mentoring experience and plans for improvement and development, and preferably is 1–2 pages. The diversity statement should discuss past contributions and future plans to advance diversity, equity, and inclusion. These contributions could include (but are not limited to):

- Leadership or active roles in DEI-focused organizations, e.g., Math Alliance, SACNAS, NAM, AWM, etc.
- Creating equitable and inclusive environments in an applicant's service, teaching, or organizational efforts (e.g., seminars or conferences)
- Dissemination of materials or guides for creating equitable and inclusive environments
- Intentional mentoring (formal or informal) to students from historically excluded groups

We encourage applicants to provide concrete examples of their contribution(s) as well as a detailed description of the impact of and motivation for those contributions.
Please contact Rose Choi (rosechoi@uw.edu) with any questions regarding the search. **Apply Now**

Lecturer Position in Mathematics Announced at
Arizona State University, West Campus

The School of Mathematical and Natural Sciences on ASU's West campus invites applications for a full-time, benefits-eligible lecturer in Applied Mathematics.

Please submit all application materials to apply.interfolio.com/97325. The initial **application deadline is November 29, 2021** at 11:59 p.m., Eastern Standard Time. Applications will continue to be accepted on a rolling basis for a reserve pool that may be reviewed in the order in which they were received until the position is filled.

Essential Functions of the Position:
- Teach courses in relevant areas.
- The individual filling this position is expected to deliver excellent in-class and online instruction at the undergraduate level.
- Contribute to curriculum development of Applied Mathematics related courses.
- Provide course coordination for large classes with multiple sections, and contribute other service to the School and University.
- The typical teaching load is four courses per semester.
- Lecturers are also expected to work with colleagues within and outside the school to develop innovative curricula that enhance student access and success.
- Typical classes may include but are not limited to: MAT 117 College Algebra; MAT 210 Brief Calculus; MAT 211 Math for Business Analysis; MAT 270/271/272/ Calculus w/Analytic Geometry I, II, III; MAT 300 Mathematical Structure; MAT 343 Applied Linear Algebra.

Required Qualifications:
- M.S. (or equivalent or higher degree) in Mathematics, or related field by the time of appointment.
- Experience working with diverse populations and supporting student success.
- Experience teaching at the college level.

Application Deadline:
The initial **application deadline is November 29, 2021** at 11:59 p.m., Eastern Standard Time. 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. A background check and official transcripts are required prior to employment.

Application Procedure:
Only electronic submissions via Interfolio will be reviewed. Incomplete applications will not be considered. Please submit all application materials to apply.interfolio.com/97325.

Applications must contain:
- Cover letter that addresses the required and desired qualifications
- Curriculum vitae with contact information, including telephone number and e-mail address
- One page statement of teaching philosophy (describing courses you could teach and your previous teaching experiences)
- Unofficial graduate transcripts
- An equity statement with specific examples that describes how your teaching interests and experience demonstrate a commitment to equity, diversity, inclusion and belonging. If known, include the impact that your actions have had on the success of one or more students
- Information for three professional references (their position, title, e-mail, phone number)
- A statement with specific examples and indication of impact that describes how your teaching interests and experience have intersected with and/or will contribute to matters of justice, equity, diversity and inclusion

ASU conducts pre-employment screening for all positions which includes a criminal background check, verification of work history, academic credentials, licenses, and certifications. Employment is contingent upon successfully passing the background check.

Tenure-Track Assistant Professor Position in Mathematics 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 Applied or Computational Mathematics or Bioinformatics with a start date of August 2022.

Candidates in all areas of applied mathematics and bioinformatics are encouraged to apply. At time of appointment, applicants should have a PhD in Mathematics, Applied or Computational Mathematics, or closely related field. Preference will be given to candidates with postdoctoral experience. Candidates will be expected to demonstrate a commitment to excellence in research and teaching, 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 B.S., M.S., and Ph.D. degrees in various areas of mathematics and statistics. Faculty members in the Department established nationally and internationally recognized research programs in both pure and applied mathematics and statistics, including applied algebra, dynamical systems, complex networks, machine learning, inverse problems, mathematical biology, computational mathematics, systems biology, modeling neural, cardiovascular, and multiorgan systems, physical and biomedical image analysis, as well as in 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, and 4) a teaching statement with evidence of teaching effectiveness. 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 November 15, 2021, 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.

MATH ALLIANCE MEMBER INSTITUTION

Tenure-Track Faculty Position Announced in Mathematics at Virginia Tech

The Virginia Tech Department of Mathematics anticipates a tenure-track opening in High Performance Computational Mathematics with a start date of August 10, 2022, at our Blacksburg, VA, campus. The successful candidate will have a strong background at the intersection of computational mathematics and advanced high performance computing. Possible specialties include, but are not limited to, numerical linear algebra, randomized numerical linear algebra, big data, mathematics of data, tensors, inverse problems, numerical PDE modeling, PDE solvers, reduced order data driven modeling, machine learning, or uncertainty quantification. Application areas of interest include, but are not limited to, geosciences, neurosciences, physics, biology, or economics.

Appointment as an Assistant Professor of Mathematics is anticipated, but exceptional senior candidates will be considered for positions of Associate Professor of Mathematics or Professor of Mathematics. Teaching and service duties will be split between the Mathematics Department and the Computational Modeling and Data Analytics (CMDA) program. The CMDA program is a collaborative effort involving faculty members from several departments, located in the College of Science's Academy of Data Science (https://data.science.vt.edu). The college's recently launched Academy of Data Science embodies Virginia Tech's commitment to its land-grant mission of using leadership in teaching, research, and service to address society's pressing problems.

Job requirements include a Ph.D. in mathematics or a related field at the time of appointment and expertise in advanced high performance computing. Position will require occasional travel to conferences and meetings. The successful candidate will be expected to establish a distinguished research program and to provide effective instruction and advising to a diverse population of undergraduate and graduate students. Additional responsibilities include: continuing development of professional capabilities and scholarly activities, including travel to professional meetings; curriculum development, in particular enhancing the computing aspects of the Mathematics and CMDA curricula; participation in department, college, and university governance; and professional service.

An online application is required. To apply, please visit www.jobs.vt.edu, select "Apply Now," and search by posting number **518015**. Please include a cover letter, a CV, a research statement, a teaching statement, and a diversity statement as part of the online application. Each applicant should follow the instructions in the online application system to request that four references submit letters of recommendation, or letters can be emailed to compmath21@math.vt.edu. Additional information about position requirements and responsibilities can be found at the following url's. http://www.hr.vt.edu or https://www.math.vt.edu. The faculty handbook (at https://faculty.vt.edu/faculty-handbook.html) gives a complete description of faculty responsibilities. Questions about the search may be addressed to: compmath21@math.vt.edu

Applications received by November 29, 2021, will receive full consideration.

Virginia Tech is committed to supporting the success of its faculty members through policies that include the modification of duties, the extension of tenure clocks, mentoring, proposal-writing guidance, and dual-career accommodations, depending on individual circumstances. Interviewed candidates will meet with a work-life liaison for a confidential conversation about details of these policies.

Virginia Tech does not discriminate against employees, students, or applicants on the basis of age, color, disability, sex (including pregnancy), gender, gender identity, gender expression, genetic information, national origin, political affiliation, race, religion, sexual orientation, or veteran status, or otherwise discriminate against employees or applicants who inquire about, discuss, or disclose their compensation or the compensation of other employees or applicants, or on any other basis protected by law.

For inquiries regarding non-discrimination policies, contact the Office for Equity and Accessibility at 540-231-2010 or Virginia Tech, North End Center, Suite 2300 (0318), 300 Turner St. NW, Blacksburg, VA 24061. Individuals with disabilities desiring accommodations in the application process should notify Ms. Glenda Dalton (gldalto1@vt.edu, 540-231-6536) or call TTY 1-800- 828-1120 by November 29, 2021.

MATH ALLIANCE
MEMBER INSTITUTION

Tenure-Track Assistant Professor Position in Math Biology Announced at the University of Pittsburgh

The Department of Mathematics at the University of Pittsburgh invites applications for a tenure-track faculty position at the Assistant Professor level in the area of Mathematical Biology to begin in the fall term of 2022, pending budgetary approval. We seek outstanding candidates with expertise in developing and applying mathematical methods to address biological questions, who will complement and enhance our existing strength in this area. We are dedicated to the mutual success of our faculty and students in our research and education enterprise. The University of Pittsburgh is an active center for interdisciplinary research in the life sciences, offering exciting opportunities for collaborations across departments as well as with our highly ranked medical school and nearby Carnegie Mellon University. The University is currently ranked third in the nation in total NIH funding.

Successful candidates will have a Ph.D. in Mathematics or another quantitative field and should demonstrate substantial research accomplishment and dedication to teaching. Review of applications will begin on November 15, 2021, and will continue until the position is filled.

Applicants can apply online at: **https://www.join.pitt.edu/** (under Faculty Positions, Keyword search for Mathematical Biology or Mathematics). Candidates should submit (a) a cover letter, (b) a CV, (c) a statement of research accomplishments and future plans, (d) a brief description of teaching experience and interests, and (e) a brief description of how your research, teaching or service demonstrates a commitment to diversity and inclusion. Applicants should also have (f) at least three letters of reference emailed to math@pitt.edu by **November 15, 2021.**

Any questions about the application process can be directed to Dana Freund at daf125@pitt.edu.

The Dietrich School of Arts and Sciences is committed to building and fostering a culturally diverse environment, so the ability to work effectively with a wide range of individuals and constituencies in support of a diverse community is essential.

The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer and values equality of opportunity, human dignity, and diversity. EOE, including disability/vets.

Tenure-Track Faculty Position in Mathematics Announced at Virginia Tech

The Department of Mathematics at Virginia Tech (http://www.math.vt.edu/) invites applications for a tenure-track faculty position in Mathematics of Quantum Algorithms, Coding, or Cryptography with a start date of August 10, 2022, at its Blacksburg, VA, campus. The successful candidate will have a strong background in post-quantum cryptography, cryptanalysis of post-quantum cryptosystems, quantum error correction, quantum algorithms, or related topics in quantum information theory. Possible specialties include but are not limited to applied algebra, algebraic geometry, combinatorics, number theory, coding theory, cryptography, or a closely related area.

Appointment as an Assistant Professor of Mathematics is anticipated, but exceptional senior candidates will be considered for Associate Professor of Mathematics or Professor of Mathematics positions. Job requirements include a Ph.D. in mathematics or a related field at the time of appointment and an active research program, or, for a new Ph.D., strong promise for developing an active research program. The successful candidate will be expected to establish a distinguished research program and to provide effective instruction and advising to a diverse population of undergraduate and graduate students. Additional responsibilities include continuing development of professional capabilities and scholarly activities, including travel to attend conferences and meetings, participation in department, college, university, and professional service. The position requires occasional travel to attend conferences and meetings. The successful candidate will have the opportunity to engage in interdisciplinary research, curriculum development, or outreach initiatives with other members of the Virginia Tech faculty.

This position builds on existing strengths and plans to expand quantum information science and engineering and align with state-wide investments in data sciences and cybersecurity. The successful candidate will have the opportunity to be a part of the newly established Virginia Tech Center for Quantum Information Science and Engineering (VTQ) and may be especially interested in the Commonwealth Cyber Initiative (CCI), the Computational Modeling and Data Analytics Program (CMDA), and the Ted and Karyn Hume Center for National Security and Technology (Hume) within the National Security Institute. CCI is a $20 million annual Virginia initiative coordinated by Virginia Tech to position Virginia as a world leader in cybersecurity. CCI is carrying out its mission of research, innovation, and workforce development at the intersection of data, autonomy, and security by engaging over 300 researchers at 41 institutions of higher education in the Commonwealth of Virginia. The successful candidate may develop and teach cryptography courses that support the Department of Mathematics and the CMDA major's Cryptography & Cybersecurity Option. Hume cultivates the next generation of national security leaders by developing and executing research and experiential learning opportunities to engage students. Research programs support graduate assistantships through sponsored research with defense and intelligence organizations. Opportunities for collaborative research with Hume may require U.S. citizenship.

Virginia Tech is committed to supporting the success of its faculty members through policies that include the modification of duties, the extension of tenure clocks, mentoring, proposal-writing guidance, and dual-career accommodations, depending on individual circumstances. Interviewed candidates will meet with a work-life liaison for a confidential conversation about the details of these policies.

An online application is required. To apply, please visit www.jobs.vt.edu, select "Apply Now," and search by posting number **518394**. Please include a cover letter, a CV, a research statement, a teaching statement, and a diversity statement as part of the online application. Additional information about position requirements and responsibilities can be found at the following URLs: http://www.hr.vt.edu or https://www.math.vt.edu. The faculty handbook (at https://faculty.vt.edu/faculty-handbook.html) gives a complete description of faculty responsibilities. The successful candidate will be required to have a criminal conviction check and documentation of COVID 19 vaccination or receive approval from the university for a vaccination exemption due to a medical condition or sincerely held religious belief. Questions about the search may be addressed to: qacc21@math.vt.edu.

Applications received by 11:59 pm EST on **December 16, 2021,** will receive full consideration.

Virginia Tech does not discriminate against employees, students, or applicants on the basis of age, color, disability, sex (including pregnancy), gender, gender identity, gender expression, genetic information, national origin, political affiliation, race, religion, sexual orientation, or military status, or otherwise discriminate against employees or applicants who inquire about, discuss, or disclose their compensation or the compensation of other employees or applicants, or on any other basis protected by law. If you are an individual with a disability and desire accommodation, please contact Kayla Perkins at kaybc8@vt.edu during regular business hours at least ten business days before the event.

Postdoctoral Fellowship Position
in Math Biology Announced
at University of Pittsburgh

The **Department of Mathematics at the University of Pittsburgh** (Oakland campus) invites applications for a two-year postdoctoral fellow in Mathematical Biology, to begin in the Fall Term 2022, pending budgetary approval.

Candidates may be expected to participate in discussions with experimentalists and analysis of data as part of their research. Responsibilities include maintaining an active research program, teaching three courses per year, and participating in research seminars.

Required Qualifications:
Completion of a Ph.D. degree in mathematics or a closely related field is required prior to the start of appointment. Applicants should have some form of experience teaching in mathematics.

Application Instructions:

A complete application consists of: (1) curriculum vitae including courses taught and list of programming skills, (2) statement of research interests, (3) at least two letters of recommendation, and (4) a cover letter for the application briefly commenting on fit for the position and evidence of commitment to diversity and inclusion. Review of completed applications will begin on **December 13, 2021** and will continue until the position is filled. Applicants should apply online at: https://www.join.pitt.edu/

Any questions about the application process can be directed to Dana Freund at daf125@pitt.edu. The Dietrich School of Arts and Sciences is committed to fostering a diverse, inclusive environment.

The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer and values equality of opportunity, human dignity and diversity. EOE, including disability/vets.

Tenure-Track Faculty Position in Mathematics Announced at Virginia Tech

The Virginia Tech Department of Mathematics anticipates a tenure-track opening in Stochastic Differential Equations or other areas of Stochastic Analysis with a start date of August 10, 2022, at our Blacksburg, VA, campus. The successful candidate will have a strong background in the analysis of stochastic, random, or ergodic systems, or closely related areas. Possible specialties include, but are not limited to, functional analysis, geometric analysis, harmonic analysis, stochastic analysis, stochastic ordinary differential equations, stochastic partial differential equations, theory of partial differential equations, dynamical systems, mathematical physics, or applications of at least one of these areas. The successful candidate will have the opportunity to engage in interdisciplinary research, curriculum development, and/or outreach initiatives with other members of the Virginia Tech faculty.

Appointment as an Assistant Professor of Mathematics is anticipated, but exceptional senior candidates will be considered for positions of Associate Professor of Mathematics or Professor of Mathematics.

Job requirements include a Ph.D. in mathematics or a related field at the time of appointment and an active research program, or, for new Ph.D.'s, strong promise for developing an active research program. The successful candidate will be expected to establish a distinguished research program and to provide effective instruction and advising to a diverse population of undergraduate and graduate students. Additional responsibilities include: continuing development of professional capabilities and scholarly activities, including travel to attend conferences and meetings; curriculum development; participation in department, college, and university governance; and professional service. Position requires occasional travel to attend conferences and meetings.

An online application is required. To apply, please visit www.jobs.vt.edu, select "Apply Now," and search by posting number **518011**. Please include a cover letter, a CV, a research statement, a teaching statement, and a diversity statement as part of the online application. Each applicant should follow the instructions in the online application system to request that four references submit letters of recommendation, or letters can be emailed to stochsearch21@math.vt.edu. Additional information about position requirements and responsibilities can be found at the following url's. http://www.hr.vt.edu or https://www.math.vt.edu. The faculty handbook (at https://faculty.vt.edu/faculty-handbook.html) gives a complete description of faculty responsibilities. The successful candidate will be required to have a criminal conviction check as well as documentation of COVID 19 vaccination or receive approval from the university for a
vaccination exemption due to a medical condition or sincerely held religious belief. Questions about the search may be addressed to stochsearch21@math.vt.edu.

Applications received by November 29, 2021, will receive full consideration.

Virginia Tech is committed to supporting the success of its faculty members through policies that include the modification of duties, the extension of tenure clocks, mentoring, proposal-writing guidance, and dual-career accommodations, depending on individual circumstances. Interviewed candidates will meet with a work-life liaison for a confidential conversation about details of these policies.

Virginia Tech does not discriminate against employees, students, or applicants on the basis of age, color, disability, sex (including pregnancy), gender, gender identity, gender expression, genetic information, national origin, political affiliation, race, religion, sexual orientation, or veteran status, or otherwise discriminate against employees or applicants who inquire about, discuss, or disclose their compensation or the compensation of other employees or applicants, or on any other basis protected by law.

For inquiries regarding non-discrimination policies, contact the Office for Equity and Accessibility at 540-231-2010 or Virginia Tech, North End Center, Suite 2300 (0318), 300 Turner St. NW, Blacksburg, VA 24061.

Tenure-Track Faculty Position in
Mathematics at Northeastern University

Northeastern University invites applications for a tenure-track/tenure Assistant/Associate Professor position, in the field of Mathematical Foundations of Modeling and Optimization in Science and Engineering. The primary appointment will be in the Department of Mathematics with joint appointments in other Colleges including Khoury College of Computer Sciences and the College of Engineering. Appointments will have the opportunity to collaborate in cross-disciplinary teams across the University and will complement existing strengths. Relevant fields of study include Applied Analysis, Partial Differential Equations, Imaging, Discrete and Computational Mathematics, Probability, Optimization, and Network Science. We seek individuals to make research contributions at the interface between Mathematics and the Life Sciences, Engineering, or Computer Sciences. Applications are invited for positions at the rank of Assistant Professor (tenure-track) beginning in academic year 2022-2023. Exceptional senior candidates will be considered for appointment at higher ranks.

Applications will be reviewed beginning on December 15, 2021. Successful faculty at Northeastern will be dynamic and innovative scholars with a record of research and teaching excellence and a commitment to contributing to improved equity, diversity, and inclusion. Thus, strong candidates for this faculty position will have the experiences, knowledge, and skills to build their research, pedagogy, and curriculum in ways that reflect and enhance this commitment.

Please indicate how your experience, knowledge, and skills have prepared you to contribute to this work with written statements addressing the following prompts:

- **Research statement:** Please describe the focus of your research, including the questions you have identified, the funding you have received to support the work (if applicable), the results you have discovered, and the products of these efforts. Please also describe any research you have undertaken with students, with the external community, and/or with individuals from marginalized groups. Finally, please outline the research directions you foresee pursuing in the College of Science.
- **Teaching statement:** Please summarize your past instructional and mentorship experiences, your pedagogical philosophy, your plans/goals for teaching in the College of Science (including existing and proposed courses), and your strategies for teaching and mentoring a diverse cohort of undergraduate and graduate students.
- **Equity statement:** Please provide an example of a time when you altered or changed your approach to research, teaching, or service because of the diversity of the group you were working with or your awareness of marginalized populations. What changes did you make? Did they have the effects that you hoped for at the time? What did you learn from this situation? How would you expect to apply what you learned from this situation as a faculty member in the College of Science? We are interested in how you handled and learned from a past situation, not the identities of the people involved, so please only disclose what you are comfortable with.

Northeastern University is an equal opportunity employer, seeking to recruit and support a broadly diverse community of faculty and staff. Northeastern values and celebrates diversity in all its forms and strives to foster an inclusive culture built on respect that affirms inter-group relations and builds cohesion. All qualified applicants are encouraged to apply and will receive consideration for employment without regard to race, religion, color, national origin, age, sex, sexual orientation, disability status, or any other characteristic protected by applicable law. To learn more about Northeastern University's commitment and support of diversity and inclusion, please see: www.northeastern.edu/diversity.

Northeastern University is an equal opportunity employer, seeking to recruit and support a broadly diverse community of faculty and staff. Northeastern values and celebrates diversity in all its forms and strives to foster an inclusive culture built on respect that affirms inter-group relations and builds cohesion. For more information see: https://provost.northeastern.edu/odei/.

To Apply   or   **For more Information**

Multiple Tenure-Track Positions in Statistics Announced at North Carolina State University

NC STATE UNIVERSITY

The Department of Statistics at North Carolina State University seeks to hire multiple tenured/tenure-track faculty. All ranks will be considered. The start date is August 16, 2022.

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. The ability and desire to supervise graduate student research and to pursue excellence in teaching are essential.

The position carries responsibilities for teaching, conducting scholarly research, advising students, and contributing to program development and scholarly activities in the department. Quality teaching and research leading to publications in scholarly journals are prerequisites for advancement.

Teaching responsibilities will include undergraduate and graduate level courses in statistics. The person in this position is expected to develop/continue vigorous, nationally recognized research programs and is expected to serve as research adviser for doctoral students. The employee is expected to obtain/continue external support for research through competitive grants and to communicate the results to the statistics, biostatistics, bioinformatics, or related communities by publishing regularly in refereed journals and by presenting at professional meetings and in other departments at NC State and other universities.

The incumbent will also be expected to foster an environment that is supportive and welcoming of all groups.

Position Qualifications
Must have a PhD in Statistics or Biostatistics or related field. The successful candidate will be expected to develop an externally funded research program, and demonstrate a commitment to excellence in research and teaching. The candidate should have a strong capacity to teach at both the undergraduate and graduate levels, and the desire to mentor graduate students.

Application Instructions
In addition to your application please submit a CV, cover letter, research statement, and the contact information for at least three (3) professional references.

To submit an application, visit https://jobs.ncsu.edu/postings/146782

The committee will begin reviewing applications November 1, 2021.

Email: BRIAN_REICH@NCSU.EDU

Tenure-Track Assistant Professor of Mathematics Education Position Announced at
Virginia Commonwealth University

The Department of Mathematics and Applied Mathematics at Virginia Commonwealth University invites applications for a tenure-track Assistant Professor of Mathematics Education, beginning August 16, 2022.

A complete description for the responsibilities, qualifications, and application materials due can be found at https://vcu.csod.com/ux/ats/careersite/2/home/requisition/348?c=vcu. Applications will be considered until the position is filled; however, applications received by **December 15, 2021, will be given priority.**

Assistant Professor Position in Announced at
the University of Delaware

The Department of Mathematical Sciences at the University of Delaware invites applications for a permanent, teaching-focused continuing track (non-tenured, rolling contract) faculty member at the rank of Assistant Professor.

Candidates must have:
- A Ph.D. in mathematics, mathematics education, or a closely related discipline. In the latter cases, the candidate must have a master's in mathematics.
- Experience as primary instructor of an undergraduate mathematics course.
- A strong commitment to developing excellence in teaching.
- A strong interest in teaching undergraduate college mathematics courses to a variety of audiences.

The successful candidate should have experience in one or more of the following:
- Teaching courses of 90+ students.
- Teaching calculus, linear algebra, or discrete mathematics.
- Supervising or training TAs.
- Working in a coordinated teaching environment (preferably as coordinator).

A full teaching load is twelve credits per semester; the successful candidate will also participate in training and supervising teaching assistants and coordinating multi-section courses, for which appropriate course release will be given. Though the main focus of the position is teaching, promotion through the professorial ranks requires research in mathematics, mathematics education, or the scholarship of teaching and learning. Scholarship is expected to represent one-eighth of the successful candidate's workload, with appropriate course release given. The expected start date is August 16, 2022.

To apply, use the MathJobs system to submit:
- an AMS cover sheet,
- a detailed cover letter outlining interest in the position and relevant skills and experience,
- a current CV,
- three letters of recommendation, and
- a statement of teaching philosophy (maximum of three pages) addressing the job qualifications described above.

Review of applications will begin on December 1, 2021 and will continue until the position is filled. Questions, but not application material, should be e-mailed to Dr. Kilikian (eirkili@udel.edu) with "CT Position" in the subject line.

The Department of Mathematical Sciences is committed to developing a diverse workforce and is interested in candidates who can teach or mentor a diverse student population. Information on the department may be obtained from the website: http://www.mathsci.udel.edu/.

The main campus of the University offers a traditional small-town college atmosphere in a location that affords easy access to major cultural and entertainment centers in nearby metropolitan areas. The University of Delaware main campus is located midway between New York City and Washington, D.C. (about a two-hour drive to either). It's also halfway between Philadelphia, PA, and Baltimore, MD (about a one-hour drive to each). The campus is close to the Northeast Amtrak line, minutes from the I-95 corridor, and midway between two major international airports (PHL and BWI).

The University of Delaware is an equal opportunity/affirmative action employer and Title IX institution. For the University's complete non-discrimination statement, please visit http://www.udel.edu/aboutus/legalnotices.html. A recipient of a NSF ADVANCE Institutional Transformation award, UD has a service to assist dual-career couples and supports work-life balance through family-friendly policies.

Postdoctoral Research Associate Positions in Mathematics Announced at University of Alabama

2021 Postdoc – Arts & Sciences Dean's Postdoc Pool

Job Summary: Postdoctoral Research Associate positions available to persons with degrees and research interests in mathematics, with the goal of transitioning successful candidates into tenure-track positions at the University of Alabama's College of Arts & Sciences.

Additional Department Summary: The College of Arts & Sciences at the University of Alabama and the Department of Mathematics seeks applications for the Dean's Postdoctoral Research Associate positions. This is a teaching / research position with a teaching load of 2 courses per year. Successful candidates will hold terminal degrees and demonstrate a record of academic achievement in mathematics. The department will establish a series of structured merit-based evaluations with the goal of transitioning successful candidates into tenure-track positions. The Dean's Postdoctoral Research Associate positions have been established through a major College initiative begun in 2019 to promote an inclusive scholarly environment in which outstanding scholars support the advancement of diversity, equity, and inclusion in the College. We especially seek applications from candidates who would bring a diversity of backgrounds, experiences, and viewpoints to the department.

Required Minimum Qualifications: Applications are encouraged from excellent candidates with research interests in the mathematics. Joint appointments across departments are possible. The minimum requirement at the time of the appointment is a Ph.D. or other terminal degree in a field of research in mathematics. Initial appointments are for one year, with renewal contingent upon demonstration of research productivity. Home departments will develop mentoring plans detailing benchmarks for possible transition of Postdoctoral Research Associates into tenure-track professorship positions. Standard university hiring practices will govern any process of transitioning Postdoctoral Research Associates into tenure-track professor positions. **Review of applications will begin January 3, 2022.**

The University of Alabama is an equal-opportunity employer (EOE), including an EOE of protected vets and individuals with disabilities.

Application Instructions: Please submit a cover letter, curriculum vitae, and a research statement to the online portal at: https://careers.ua.edu/jobs/post-doc-visiting-scientist-mathematics-514692-tuscaloosa-alabama-united-states

Please also arrange for three reference letters to be submitted to Leslie Wiggins (ljwiggins@ua.edu)

Note to applicants: The College of Arts and Sciences is seeking to fill a total of two postdoctoral positions in any of its six natural science and mathematics departments (Biological Sciences, Chemistry & Biochemistry, Geography, Geology, Physics & Astronomy, and Mathematics).

Zelevinsky Postdoctoral Fellow Positions
in Mathematics Announced
at Northeastern University

The Department of Mathematics invites applications for Zelevinsky Postdoctoral Fellows (ZPF) for the Fall semester of 2022. The Zelevinsky Postdoctoral Fellow appointments have a three-year term which is non-tenure-track and non-renewable. The position provides promising mathematicians the opportunity to begin their careers in an active and stimulating research environment, with teaching assignments and ample opportunity for contact with senior research mathematicians. Applications from areas of both pure and applied mathematics are welcome.

Applicants should have a commitment to high quality classroom instruction. They are also expected to conduct research at a high level. The teaching load for the ZPF position is three courses per year. Candidates are required to have received a Ph.D. degree or equivalent in the field of Mathematics by the start of the appointment.

Applications are welcome from those with prior academic and/or postdoctoral research experience. Applicants should have strong research potential. Field of research should be consonant with the current research interests of the department, and candidates are strongly encouraged to indicate a member or members of the Mathematics Department with overlapping research interests.

Review of applications will begin immediately. Complete applications received by **December 1, 2021** will be guaranteed full consideration. Additional applications will be considered until the position is filled.

If you are selected as a finalist for this position, you will be requested to finalize your application here: https://careers.hrm.northeastern.edu/en-us/job/507981/zelevinsky-postdoctoral-fellow.

Northeastern University is an equal opportunity employer, seeking to recruit and support a broadly diverse community of faculty and staff. Northeastern values and celebrates diversity in all its forms and strives to foster an inclusive culture built on respect that affirms inter-group relations and builds cohesion. For more information see: https://provost.northeastern.edu/odei/.

To Apply   or   **For more Information**

MATH ALLIANCE
MEMBER INSTITUTION

Tenure-Track Assistant Professor in Mathematics Position Announced at Northern Illinois University

Anticipated tenure-track position in applied mathematics at the Assistant Professor level to begin August 2022. Current faculty interests in applied and computational mathematics include partial differential equations, data science, optimization, mathematical biology, and applied and computational harmonic analysis.

Required Qualifications:
PhD in mathematics or its equivalent required at the time of appointment. Demonstrated potential for excellence in research and teaching are required.

Preferred Qualifications:
Preference will be given to applicants with expertise in differential equations, a background in the teaching of college algebra, and a record of supporting STEM and undergraduate education for a diverse student body.

University and Department Description:
Northern Illinois University (NIU) is a research-focused (R2 Carnegie ranking) regional university. Our research active mathematics faculty have a 2+2 teaching load and have the opportunity to teach and advise graduate students in our M.S. and Ph.D. programs. We seek faculty who embrace NIU's mission of providing opportunity to a diverse student body by providing them with access to high quality education and hands-on involvement in research/artistry and community engagement.

Salary: Commensurate with experience, education, and qualifications; includes a robust benefits package.

Application Procedures:
Application materials include a current curriculum vitae, doctoral transcripts, three letters of reference, description of research program, a statement of teaching philosophy, and a diversity statement. One of the letters of reference should address the applicant's teaching.

For full consideration, applicants should submit application materials to https://employment.niu.edu/postings/59785 by **December 1, 2021**. Applications received after **December 1, 2021** are welcomed, but will be considered as needed.

Pre-employment background check and verification of eligibility to work in the United States is required.

<u>**Equal Employment Opportunity Statement**</u>
Northern Illinois University (NIU) is committed to fostering a diverse and inclusive academic global community; as an AA/EEO employer, NIU considers qualified applicants for employment without regard to, and does not discriminate on the basis of, gender, race, color, national origin, sexual orientation, religion, protected veteran status, disability, or any other legally protected status.

Tenure-Track Faculty Positions Announced
at Northeastern University

The College of Science at Northeastern University invites applications for multiple, cross-disciplinary tenure-track faculty positions at the rank of Assistant Professor, beginning academic years 2022-23 or 2023-24. These positions are part of the new College INVEST initiative to hire brilliant and diverse faculty across all demographics of society. Candidates who are completing their PhD or at an early stage of their postdoctoral training are encouraged to apply to these innovative tenure-track faculty appointments.

The College comprises six departments: Biology, Chemistry and Chemical Biology, Marine and Environmental Sciences, Mathematics, Physics, and Psychology. Cross-disciplinary research programs and appointments are strongly encouraged within the College, and across the University. The research areas are open and could include, but are not limited to: Human Health; Brain Function, Cognition and Mind; Microbial Resistance and Antimicrobials; Natural and Designed Chemicals and Materials; Development, Regeneration, and Aging; Inherited or Infectious Diseases; -Omic approaches; AI and machine learning applied to scientific challenges; Mathematical Modeling; Biophysics; Network Science; Particle Physics; Pure and Applied Mathematics; Quantum Materials; Environment, Ecology and Sustainability; Sustainable Energy.

Successful candidates must have been awarded a PhD degree in a relevant research area by the appointment start date. Evidence of potential as a research scientist is expected, but postdoctoral experience is not required. Candidates must be committed to excellence in undergraduate and graduate teaching. They should embrace the Northeastern emphasis on experiential education and the College philosophy that access to science education and careers must be inclusive. Candidates will articulate how their work would contribute to the University mission of advancing historically underrepresented and marginalized communities.

Interested candidates should apply here, with a cover letter with contact information for three references, a curriculum vita that includes a list of publications, and separate written statements addressing each of the following prompts:

- **Research statement:** Please describe the specific research questions you have addressed; the results obtained and their interpretation; funding and awards received (if applicable); products of these efforts (publications, patents, software, etc). Highlight any cross-disciplinary research efforts you have undertaken. Also describe any research you have conducted with students, with the external community, and/or with individuals from marginalized groups. Describe the future research directions you foresee pursuing in the College of Science, any cross-disciplinary and collaborative aspects, and the strategies you will take to address each direction.

- **Teaching statement:** Please summarize your past instructional and mentorship background, your pedagogical philosophy, your plans/goals for teaching in the College of Science (including existing and proposed courses), and your strategies for teaching and mentoring a diverse cohort of undergraduate and graduate students.

- **Equity statement:** Please provide an example of a time when you altered or changed your approach to research, teaching, or service because of the diversity of the group you were working with or your awareness of marginalized populations. What changes did you make? Did they have the effects you hoped for at the time? What did you learn from this situation? How would you expect to apply what you learned from this situation as a faculty member in the College of Science? We are interested in how you handled and learned from a past situation, not the identities of the people involved, so please only disclose what you are comfortable with.

Northeastern University is an equal opportunity employer, seeking to recruit and support a broadly diverse community of faculty and staff. Northeastern values and celebrates diversity in all its forms and strives to foster an inclusive culture built on respect that affirms inter-group relations and builds cohesion. For more information see: https://provost.northeastern.edu/odei/.

To Apply

Two Faculty Positions in Mathematics Announced
at Saint Louis University

Saint Louis University invites applications for full time permanent positions in the Department of Mathematics and Statistics. These positions will begin in August, 2022. **Applications received by 1/4/2022 are assured of full consideration.**

SAINT LOUIS UNIVERSITY.
— EST. 1818 —

Our department currently consists of twenty-four faculty members whose research areas include algebra, analysis, geometry, topology, statistics, and mathematics education. We offer both the Bachelor of Arts and Bachelor of Science degrees in mathematics at the undergraduate level and participate in the interdisciplinary Bachelor of Science program in Data Science. At the graduate level, the Department offers both the Master of Arts and Doctorate of Philosophy in mathematics. The Department web page is http://mathstat.slu.edu.

Saint Louis University is an equal opportunity/affirmative action employer. All qualified candidates will receive consideration for the position applied for without regard to race, color, religion, sex, age, national origin, disability, marital status, sexual orientation, military/veteran status, gender identity, or other non-merit factors. We welcome and encourage applications from minorities, women, protected veterans, and individuals with disabilities (including disabled veterans). If accommodations are needed for completing the application and/or with the interviewing process, please contact Human Resources at 314-977-5847.

Tenure Track Assistant Professor
Ph.D. required in Mathematics or a related area. The department seeks candidates with outstanding potential in both research and teaching, who will contribute to the overall strength of the department. Candidates should demonstrate the ability to enhance established research groups at SLU. The department is especially interested in candidates whose research program also has an applied, statistical, or computational component.
Duties include:
- Maintaining an active research program.
- Teaching both undergraduate and graduate courses, with a typical load of two courses per semester for active researchers.
- Eventual participation in the supervision of master's theses and doctoral dissertations.
- Participation in department governance and university service.

Application materials must be submitted through MathJobs. The application should include: CV, statement of research interests, teaching statement, and three letters of recommendation (including at least one that addresses teaching).

Non-tenure-track Assistant Professor
Ph.D. required in Mathematics, Statistics, or a related area. The department seeks candidates who are established and excellent educators, who can contribute to the educational mission of the department. Candidates should demonstrate an engagement with the scholarship of teaching and learning through publications or other professional activities.
Duties include:
- Teaching undergraduate courses, with a typical load of three courses per semester.
- Leadership in curricular development.
- Engagement with the scholarship of teaching and learning.
- Participation in department governance and university service.

Application materials must be submitted through MathJobs.The application should include: CV, statement of teaching interests and experience, and three letters of recommendation (including at least two that address teaching).

Visit the department website mathstat.slu.edu for details.

Multiple Teacher-Scholar Postdoctoral Fellow Positions Announced at Wake Forest University

The Department of Mathematics & Statistics at Wake Forest University invites applications for two or more Teacher-Scholar Postdoctoral Fellow positions available beginning July 2022. 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 & Statistics 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 thirty-nine members and offers both a B.A. and a B.S. in Mathematics, a B.A. and a B.S. in Mathematical Statistics, a B.S. in Applied Mathematics, a B.S. in Mathematical Economics, and a B.S. in Mathematical Business. The department has a graduate program offering an M.S. with a track in each of Mathematics and Mathematical Statistics.

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 teaching statement, 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 14th, 2022. Applicants should post materials electronically at **https://www.mathjobs.org/jobs/list/18628**.

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

Two Tenure-Track Assistant Professor Positions Announced at Florida Atlantic University

The Department of Mathematical Sciences at Florida Atlantic University invites applications for two tenure-track, assistant professor positions in cryptology, starting in August 2022.

Preferences will be given to candidates with several broad areas of interest including, but not limited to, mathematical foundations of public-key cryptography, post-quantum, and algorithmic number theory. Responsibilities for this position will be teaching, scholarly research, and professional service. The successful candidates must possess a Ph.D. in Mathematics or a closely related field, and will be expected to apply for and secure external research funding.

Applicants must apply electronically to the currently posted position Assistant Professor, Mathematics on the Office of Human Resources' career website (https://fau.edu/jobs) by completing the required online employment application. When completing the online application, please upload all required documentation noted in the Special Instructions section of the posting.

For more information and to apply, visit www.fau.edu/jobs and go to Apply Now **REQ11778**. This position is open until filled and may close without prior notice. Priority consideration will be given to applications received by **January 10, 2022.**

Florida Atlantic University is an equal opportunity/affirmative action/equal access institution and all qualified applicants will receive consideration without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veterans' status or other protected status. Individuals with disabilities requiring accommodation, please call 561-297-3057. 711.

MATH ALLIANCE
MEMBER INSTITUTION

Tenure-Track Assistant Professor in Statistics Position Announced at California State Polytechnic University, Pomona

California State Polytechnic University, Pomona invites applications for a tenure track faculty position in Statistics.
Minimum Requirements:
· Completion of a Ph.D. in statistics or a related area by the time of the appointment.
· Experience teaching or communicating in technical settings.
· Potential to sustain a scholarly research program in statistics or data science.
· Ability to contribute to the diversity and inclusiveness of the academic community through research, teaching, and/or service work. This evidence must be communicated in the application process via a *Student Success Statement*, which explicitly addresses at least two of the *inclusive excellence criteria* listed above in this advertisement.

Conditions of Employment: The person offered this position is required to pass a background check.

Application Process:
For first consideration, submit the following materials by Monday, December 6. **All materials must be submitted to MathJobs. In addition, submit the cover letter, curriculum vitae, and Student Success Statement to** Interfolio**:**

· A **cover letter** in which you describe your background and interest in teaching, research, and service. In your cover letter, please address the duties and qualifications stated in our position description.

· A **curriculum vitae**, which should include the names, titles, addresses, phone numbers, and emails of at least three references we may contact who can speak to your potential for success in this position.

· A **Student Success Statement** (two pages maximum) specifically addressing your teaching, successes, challenges, or other experiences in working with a diverse population and how this experience will contribute to the broader mission of Cal Poly Pomona to be the model of an inclusive polytechnic university. Your Student Success Statement *must explicitly address at least two of the inclusive excellence criteria* listed above in our long form ad.

· A **Teaching Philosophy Statement**, including evidence of the effective application of your teaching philosophy in technical communication settings (classroom teaching, consulting, etc.).

· A **Research Statement**, explaining your past and current research efforts as well as future research plans.
· **Undergraduate and graduate transcripts**. Unofficial transcripts may be submitted for this application; official graduate and undergraduate transcripts will be required if you are selected as a finalist.·

· A minimum of **three recent (within the previous two years) letters of reference** on your behalf should be submitted through AMS MathJobs. At least one of your reference letters should address your teaching potential.

· A Cal Poly Pomona application form will be required if you are selected as a finalist.
  (See https://www.cpp.edu/~faculty-affairs/documents/acadapplication.pdf).

Your completed application packet will be available to be examined by all tenured and tenure-track faculty of the Cal Poly Pomona Department of Mathematics and Statistics. This position is open until filled. Those applications completed and received by **Monday December 13, 2021** will receive first consideration. Early response is encouraged.

Affirmative Action/Equal Opportunity Employer
California State Polytechnic University, Pomona is an Equal Opportunity, Affirmative Action Employer. The university seeks to recruit and retain a diverse workforce as a reflection of our commitment to serve the people of California, to maintain the excellence of the university, and to offer our students richly varied disciplines, perspectives, and ways of knowing. Cal Poly Pomona subscribes to all state and federal regulations and prohibits discrimination based on race, color, religion, national origin, sex, gender identity/gender expression, sexual orientation, marital status, pregnancy, age, disability, genetic information, medical condition, and covered veteran status. The university hires only individuals lawfully authorized to work in the United States. As required by the Clery Disclosure Act, the university prepares a public **annual security report.**