Upcoming Events

Joint Math Meetings 2022
Seattle, WA
Jan. 5- 8, 2022

2022 Gulf States Math Alliance Conference
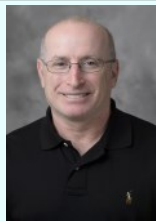Texas Southern University
Houston, TX
Feb. 25-27, 2022

Building Future Faculty Program
NCSU
Mar 30– Apr. 3, 2022

ADJOINT Workshop
Berkeley, CA
Jun. 20-Jul. 1, 2022

Thoughts from the Director...

David Goldberg
Executive Director of the Math Alliance

First, thanks to everyone who participated in the Field of Dreams Conference earlier this month. It was great to see so many folks and to feel the energy of the event, even virtually. Yes, we really miss being together more and more as time passes, but that we can still come together as a community virtually is invigorating. We had over 500 registered participants!! Congratulations to the four winners of the AMS FGAPplication prizes: Deanna Patterson, Nataya Tucker, Giovanni Artiglio, and Cristian Villatoro. Thanks to AMS for sponsoring these prizes and thanks to all the programs and departments who supported the conference. We especially thank our Partners: 3M Company, The American Statistical Association, Arizona State University, Penn State University, Purdue University, University of Minnesota, and University of Washington. Math Alliance leadership will be discussing the dates and format of the 2022 Field of Dreams Conference soon, and we hope to have an announcement before too long.

It is hard to believe we are about to start the last month of 2021. It certainly has been a bit of a roller coaster. I am thankful for the support, encouragement, and dedication of the Math Alliance mentoring community over these last two years. Thanks for continuing to believe in us, for valuing our shared goals and working hard to support Math Alliance Scholars. We continue to experience growth and see successes among our Scholars – more doctorates earned, great professional placements and accomplishments.

Looking ahead, I think we are hopeful some things will continue to move, cautiously, closer to normal. We note that the Gulf States Math Alliance is planning on holding their conference in person in February, and we hope more of our our activities that return to in-person in 2022. We also have the Joint Math Meetings (JMM) coming up in Seattle, in January. I want to call the attention of our community to three <u>Math Alliance events at the JMM:</u>

- There is a minicourse offered by Nicole Joseph and William Vélez, "*Breaking the Cycle of Mechanisms of Inequality in Mathematics Teaching and Learning*", Wednesday and Thursday (January 5&6), 1-3 PM each day.

- A panel discussion "*Fifteen Years of Building a New American Community in the Mathematical and Statistical Sciences*", Thursday January 6, 10:30AM-noon.

- Our annual special session featuring Math Alliance Scholars doctorates (or soon to be doctorates) discussing their research, (SS57A "*If You Build It They Will Come*") will take place Friday January 7, 8-11:50AM and 1-6PM.

We hope to see many of you there!! There are several events at JMM which feature members of the Math Alliance community prominently – too many to mention here, but next month's newsletter will include a partial list, and we hope our community supports each other in attending these sessions. I am looking forward to this meeting (my first in-person meeting since February, 2020) and in spite of the rise of the Omicron variant, I am excited to be seeing so many good colleagues and friends.

Let's continue to be safe, support each other, and help our community and our whole profession find the way forward.

Rodrigo Bañuelos Receives AMS 2022 Award for Distinguished Public Service

Professor Rodrigo Bañuelos, who is Program Advisor to the Math Alliance Executive Council, a long time Math Alliance Mentor, and a Professor at Purdue University has been selected to receive the 2022 AMS Award for Distinguished Public Service. To see the full award announcement from the AMS follow this link.

About the Award...
Presented every two years, the AMS Award for Distinguished Public Service recognizes a research mathematician who has made recent or sustained distinguished contributions to the mathematics profession through public service.

The 2022 prize will be presented Wednesday, January 5, 2022 during the Joint Prize Session at the 2022 Joint Mathematics Meetings being held in Seattle. **Congratulations Rodrigo on winning this prestigious award!**

Still Accepting 2021-22 F-GAP Nominations!

The Facilitated Graduate Applications Process (F-GAP) is an Alliance program that provides undergraduate Juniors and Master's students with the advice and assistance needed to begin the application process as they apply to graduate programs.

F-GAP will help students choose departments that are most appropriate to their goals and aspirations. The Alliance Community will work with the student as they prepare their applications to graduate programs and will assist in tracking the progress of their applications through the admissions process. The Alliance Community will assist in maximizing the chances that Alliance Scholars will be admitted, with support, to a department or program where they will thrive. We will pair each eligible student with one of our Doctoral Alliance Mentors who will work with the students local mentor to create a mentoring team that will aid in the application process.

If you know of a Senior or Master's student who will be graduating in the Spring or Summer of 2022 and will be applying to graduate programs for Fall 2022 please submit student nominations here: https://mathalliance.org/fgap-nomination-form/. As part of this submission, you will be asked to check a box stating that you have read the document, "Selecting students for the F-GAP program: FAQs.")

Things to note in the AMS Notices

October

[The Hamilton-Jacobi Equation, Then and Now](#) by Ryan Hynd*

[Cancer Evolution in Spatially Structured Tissues](#) by Jasmine Foo*

[Director of Equity, Diversity, and Inclusion Position Announcement](#)

[How to Tutorial-a-thon](#) by Henry Adams*, Hana Dal Poz Kouřimská, Teresa Heiss, Sarah Percival, and Lori Ziegelmeier

November

[Advice from Our Advisor: Benson Farb](#)* coordinated by Bena Tshishiku. Some stories contributed by Khalid Bou-Rabee* and Jesse Wolfson*.

[Postbaccalaureate Bridge Programs Diversify PhD Pathways](#) by Sophia D. Merow. Featuring Tuncay Aktosun*, Renato Feres*, and Oscar Vega* and their prospective Bridge programs.

December

[Chip Firing and Algebraic Curves](#) by David Jensen*

[Graph Pebbling: A Blend of Graph Theory, Number Theory and Optimization](#) by Glenn Hurlbert* and Franklin Kenter

[IMA Math-to-Industry Boot Camp](#) by Fadil Santosa* and Daniel Spirn*

[Mathematics and Dance: Notes from an Emerging Interaction](#) by Reggie Wilson and Jesse Wolfson*

[AWM Prizes Awarded.](#) Jennifer Balakrishnan* of Boston University received the 2022 AWM-Microsoft Research Prize and Maria Helena Noronha* of California State University, Northridge, received the 2022 M. Gweneth Humphreys Award.

[Project NExT Fellows Chosen](#). For 2020 the fellows sponsored by the AMS were: Jennifer Berg, Bucknell University; Rolando de Santiago†*, Purdue University; Caitlin S. Hult, Gettysburg College; Amanda N. Laubmeier†*, Texas Tech University; and Michelle Rabideau, University of Hartford.

---

*Math Alliance Mentor   †Math Alliance Scholar

Items of Interest in the AMSTAT NEWS

September

[Emma Benn*: Professor, Mentor, Interpreter, and Advocate,](#) by Kim Gilliam

November

[My ASA Story: Emily Griffith*, Associate Research Professor](#)

December

[Companies offering Stat or Biostat internships for 2022](#)

[Goals Met, Celebrated at Women in Statistics and Data Science Conference.](#) Several Math Alliance Mentors were in virtual attendance, including: Talitha Washington, Leslie McClure, Emma Benn, Heather Mattie†, Rebecca Betensky. ([See page 39 of news for article).](#)

Sherri Rose*, was [awarded the 2021 Mortimer Spiegelman Award](#)

_____
*Math Alliance Mentor   †Math Alliance Scholar

Bristol Myers Squibb Summer Internships Available
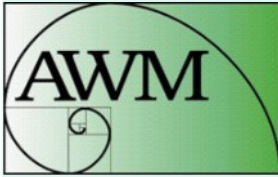
Current Internships that are Available :

- R1547861 [Intern, Statistical Programming](#) (Summer 2022) (Evergreen) (Open)
- R1548332 [Intern, Statistical Programming](#) (Grad student) (Summer 2022) (Evergreen) (Open)
- R1548334 [Intern, Data Science](#) (Summer 2022) (Evergreen) (Open)
- R1548318 [Intern, Biostatistics](#) (Summer 2022) (Evergreen) (Open)

In order to identify the MathAlliance Scholars, they should do the following:

Question: "How Did You Hear About Us?*" select "Employee Referral (BMS Employee)"

Question: "What's their name or email address?*" Enter: Ayanbola Elegbe (Ayanbola.elegbe@bms.com)

Math Alliance Mentors part of Committee being Honored with AWM Service Award!

The Association for Women in Mathematics is pleased to announce that the 2022 AWM Service Award will be presented to the **Notable Women in Math Playing Cards Project Management Committee (EvenQuads PMC)**.

The committee members are Sarah-marie Belcastro (Chair), Sherli Koshy-Chenthittayil, Linda McGuire, Monica Morales Hernandez*, Denise A. Rangel Tracy*, and Oscar Vega*.

Committee members: Morales Hernandez, Rangel Tracy, and Vega are all Math Alliance Mentors. Oscar Vega until recently has served as our Associate Director for Regional Alliances on our Executive Council.

The link to the full article on the Playing Cards Project is here. The press release from the AWM is here.

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.

2022 African Diaspora Joint Mathematics Workshop (ADJOINT)

The Mathematical Sciences Research Institute invites applications for its 2022 ADJOINT workshop taking place June 20 - July 1 in Berkeley, California.
The **African Diaspora Joint Mathematics Workshop (ADJOINT)** is a yearlong program that provides opportunities for U.S. mathematicians – especially those from the African Diaspora – to form collaborations with distinguished African-American research leaders on topics at the forefront of mathematical and statistical research.

Beginning with an intensive two-week summer session at MSRI, participants work in small groups under the guidance of some of the nation's foremost mathematicians and statisticians to expand their research portfolios into new areas. Throughout the following academic year, the program provides conference and travel support to increase opportunities for collaboration, maximize researcher visibility, and engender a sense of community among participants.

ADJOINT enriches the mathematical and statistical sciences as a whole by providing a platform for African-American mathematicians to advance their research and careers and deepen their engagement with the broader research community.

PROGRAM ELIGIBILITY
- Applicants must be a U.S. citizen or permanent resident, possess a Ph.D. in the mathematical or statistical sciences, and be employed at a U.S. institution.

PROGRAM ACTIVITY & SUPPORT
During the workshop, each participant will:
- Conduct research at MSRI within a group of four to five mathematical and statistical scientists under the direction of one of the research leaders (see research leaders and topics below);
- Participate in professional enhancement activities provided by the onsite ADJOINT Director; and
- Receive funding for two weeks of lodging, meals and incidentals, and one round-trip travel to Berkeley, CA.

After the two-week workshop, each participant will:
- Have the opportunity to further their research project with the team members including the research leader;
- Have access to funding to attend conference(s) or to meet with other team members to pursue the research project, or to present results; and Become part of a network of research and career mentors.

APPLICATION REQUIREMENTS
- Cover letter specifying which of the offered research projects you wish to be part of; if more than one please indicate your priorities (see website);
- a CV;
- a personal statement, no longer than *one page*, addressing how your participation will contribute to the goals of the program (e.g., why you are a good candidate for this workshop and what you hope to gain); and
- a research statement, no longer than *two pages*, describing your current research interests, and relevant past research activities, and how they relate to the project(s) of greatest interest to you (e.g., what motivates your current interests and what is your relevant research background).

SELECTION PROCESS
- The guiding principle in selecting participants and establishing the groups is the creation of diverse teams whose members come from a variety of institutional types and career stages. The degree of potential positive impact on the careers of African-Americans in the mathematical and statistical sciences will be an important factor in the final decisions.

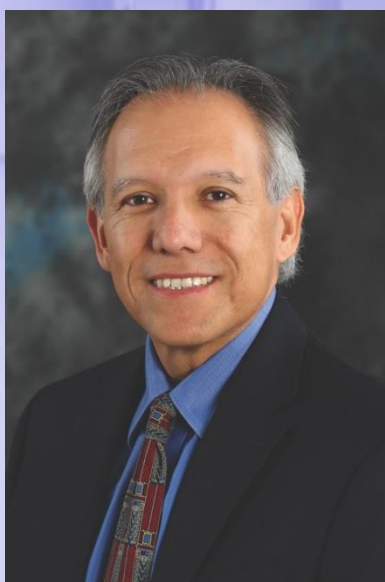## Learn More and Apply Online by December 15, 2021

2022 Gulf States Math Alliance Conference

February 25-27, 2022

Texas Southern University
Houston, Texas

Dr. Juan C. Meza

Division Director of Mathematical Sciences, National Science Foundation Recipient of 2008 Blackwell-Tapia Prize, SACNAS Distinguished Scientist Award, 2008 ACM Gordon Bell Award Fellow of the AAAS, AMS and SIAM Served as Dean of Natural Sciences at the University of California, Merced.

KEYNOTE SPEAKER

Gulf States Math Alliance Institutions

Collin College
Dallas County Community College District
Jackson State University
Lamar University
Sam Houston State University
Southern University and A&M College
Southern University at New Orleans
St. Mary's University
Sul Ross State University
Tarrant County Community College District
Temple College
Texas A&M International University
Texas A&M University-Commerce
Texas Southern University
Texas State University
Tougaloo College
University of Houston
University of Louisiana at Lafayette
University of Mary Hardin-Baylor
University of Mississippi
University of North Texas at Dallas
University of Texas at Arlington
University of Texas at El Paso
University of Texas Rio Grande Valley
Xavier University of Louisiana

PROGRAM

Keynote lecture, panel discussions, graduate school fair, information session on Bridge Program, summer program, REU opportunities, and faculty professional development workshop

TOPICS

Mentoring students in the mathematical sciences; Graduate school; Increasing participation from underrepresented and underserved groups; Fostering networking among faculty and students; DEI in mathematics; Critical transitions from Community College to 4-year university to graduate school.

Registration

https://www.uta.edu/math/events/gsmath/index.php
The registration period will open soon.

ORGANIZING COMMITTEE

Roderick Holmes (chair, Texas Southern University, TX)
Jianzhong Su (co-chair, University of Texas at Arlington, TX)
Phyllis Okwan (co-chair, Southern University and A&M, LA)
Theresa Martines (co-chair, University of Texas at Austin, TX)
Joan Evans (Texas Southern University, TX)
Yunjiao Wang (Texas Southern University, TX)
Cher Crockett (Texas Southern University, TX)
Matthew Beauregard (Stephen F. Austin State University, TX)
Rachid Belmasrour (Southern University at New Orleans, LA)
Katrina Cunningham (Southern University and A&M, LA)
Caixia Chen (Tougaloo College, MS)
Donald Cole (University of Mississippi, MS)
Meri Hughes (Mary Hardin-Baylor, TX)
Brandt Kronholm (University of Texas Rio Grande Valley, TX)
Michelle Lacey (Tulane University, LA)
Albertha Lawson (Southern University and A&M, LA)
Joe Omojola (Southern University at New Orleans, LA)
Josef Sifuentes (University of Texas Rio Grande Valley, TX)

CONTACT INFORMATION

Dr. J. Su & Dr. T. Aktosun, aktosun@uta.edu
UTA NSF BRIDGE-TO-MATH-DOCTORATE PROGRAM
https://fermat.uta.edu/bridge/
GS Math Alliance web page: http://www.math.tulane.edu/~gsmath

NSF

TSU
TEXAS SOUTHERN UNIVERSITY

UT ARLINGTON

The "**D**ay **I**n the **L**ife of an **I**ndustry **S**tatistician (DILIS)" Panel is back again, this year with a twist!

This virtual panel is co-sponsored by **Bristol Myers Squibb** (BMS) and **Math Alliance**; **10th of December 2021 from 2 PM – 3 PM EST**.

The panel this year brings together early career young professionals from the Global Biometrics and Data Science (GBDS) function at BMS to discuss a day in their work life.

In this virtual session, you will have the opportunity to:

- Understand how to get started in the biopharmaceutical industry, including internship opportunities

- Hear from fresh PhD Statistics/Biostatistics graduates on how to make an effective transition from grad. student to a professional

- Participate in an open Q&A panel discussion!

The panel this year will bring together various roles within BMS-GBDS; Head of Statistical Programming, Biostatistician, Data Scientist, and past BMS intern. Panelists: **Samar Noor**, **Duncan Rotich**, **Sanhita Sengupta and Demond Handley**.

If you are interested in attending, please **RSVP for the panel** today to reserve your spot. Using this registration link, you can also pre-submit questions for discussion.

Ayanbola Elegbe
Director, Global Biometrics and Data Sciences
Global Drug Development / Medical Affairs

Bristol Myers Squibb™

SCHOOL OF PUBLIC HEALTH
BIG DATA SUMMER INSTITUTE
UNIVERSITY OF MICHIGAN

Transforming Analytical Learning
in the Era of Big Data
An Undergraduate Summer Institute in Biostatistics SIBS at The University of Michigan

245
Students trained

55%+
Alum in graduate school

22
Students in our graduate program

16%
Under-represented minority students

June 20 - July 29, 2022
This full-time 6-week summer institute will introduce undergraduate students to emerging challenges at the intersection of **Big Data**, **Statistics**, and **Human Health**.

Application opens December 1, 2021

Lectures will be led by a diverse group of stellar biostatistics, statistics, electrical engineering, and computer science faculty at the University of Michigan. Faculty from biomedicine and public health will present their perspective of big data. Working in teams, students will participate in mentored big data research projects.

NIH) National Heart, Lung, and Blood Institute

www.BigDataSummerInstitute.com
NHLBI Summer Institute in Biostatistics Program - Grant R25HL147207

JULY 17 – AUGUST 6
NUMBER THEORY INFORMED BY COMPUTATION

The Park City Mathematics Institute (PCMI) has programs for undergraduates, graduate students, and faculty. It also has programs for teachers, undergraduate faculty and a workshop on rehumanizing mathematics. There will be no cost to participants. (In fact, the program has financial assistance that it can offer to some of the participants that need it, and offers stipends to domestic undergraduates.)

Research organizers:
Jennifer Balakrishnan, Bjorn Poonen, and Akshay Venkatesh
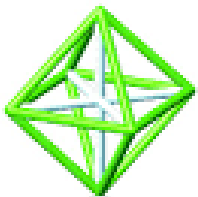
Graduate Student Program

Undergrad Student Program:
Christelle Vincent

Teacher Leadership Program

Undergrad Faculty Program:
Sinai Robins

Program Organizers:
Rafe Mazzeo, Jayadev Athreya, Dave Auckly, Paul Melvin, Irena Swanson, Peg Cagle, Monica Tienda, and Rochelle Gutierrez

FOR MORE INFORMATION APPLY BY JANUARY 15

https://www.ias.edu/pcmi

IAS | PCMI

PARK CITY MATHEMATICS INSTITUTE

A program of the Institute for Advanced Study

Second Annual
OURFA²M²

Online Undergraduate Resource Fair for the Advancement and Alliance of Marginalized Mathematicians

For marginalized, underrepresented, and underserved undergraduate mathematicians, it can feel difficult to gather the information you need to build your career. We've been there, and we've got your back.

December 4 & 5, 2021 on Zoom
8am-4pm Pacific / 11am-7pm Eastern
Registration and information at ourfa2m2.org

This free conference will include:

- Panel of representatives of summer and semester opportunities
- Panel of students who've participated in such programs
- Crash courses in common undergraduate research fields
- Personal stories of mathematicians' undergrad experiences
- Other talks and activities to network and share resources

Please register by 11:59 pm Pacific on November 27 to join us!
Contact ourfa2m2@gmail.com with questions.

Duke
TRINITY COLLEGE OF ARTS AND SCIENCES

DEPARTMENT *of* MATHEMATICS

PhD Program

Algebra and combinatorics ◀
Algebraic geometry ◀
Applied math and analysis ◀
Biological modeling ◀
Computational math ◀
Geometry and topology ◀
Mathematical physics ◀
Number theory ◀
PDEs and dynamical systems ◀
Probability ◀
Signals, images, and data ◀

Duke Affiliates

Computational biology ◀
Machine learning ◀

Interested?

Next cohort begins Fall 2022 ◀
Apply by December 13, 2021 ◀
Fee waived for HBCU students ◀
More info at math.duke.edu ◀
dgs-math@math.duke.edu ◀

▶ Academics

Duke is home to leading researchers across the mathematical sciences, including 17 Fellows of the AMS and 3 Fellows of the American Academy of Arts and Sciences. The department also hosts a Research Training Group in analysis, probability, PDEs, and computing, and the TRIPODS@Duke data science initiative.

▶ Outcomes

The PhD program provides excellent training for both academic and industry jobs. In the last 4 years, our graduates have obtained jobs at places like Oxford, UCLA, NYU, Harvard Medical School, Carnegie Mellon, Bloomberg, Ernst & Young, Amazon, and Google.

▶ Funding

Duke PhD students receive guaranteed funding for 5 years. This funding includes a full waiver of tuition and fees, a generous year-round stipend that covers living expenses, and 6 years of free health and dental insurance. Summer funding is provided with no teaching requirements.

▶ Application

The general and math subject GREs are an optional part of the Fall 2022 application, and you will not be disadvantaged by omitting either or both of these exams. Applicants from HBCUs are eligible to have their application fee waived by emailing dgs-math@math.duke.edu.

Tenure-Track Assistant/Associate Professor in Quantum Information Science Announced at Purdue University

PURDUE
UNIVERSITY

The Department of Mathematics as part of the College of Science at Purdue University invites applications for possibly multiple positions in Quantum Information Science (QIS) to begin August 2022. These positions will be at the assistant/associate professor level based on scholarly record. When appropriate, successful candidates may be considered for joint and interdisciplinary appointments across the College.

QIS is at the frontier of several traditional research disciplines in pure and applied mathematics; computer science and information theory; condensed matter, atomic, molecular, and optical physics; and chemistry. QIS strives to harness the unusual quantum mechanical properties of superposition and entanglement to provide breakthrough advances for computing, secure communications, and novel device functionalities. As such, QIS is part of a large-scale interdisciplinary hiring effort across key strategic areas in the departments of Chemistry, Computer Science, Mathematics, and Physics & Astronomy.

The College of Science is Purdue's second-largest college, comprising the physical, computing, and life sciences—these positions come at a time when the College is under new leadership and with multiple commitments of significant investment. The College of Science is especially seeking to enhance our existing strengths in research at the interface of Chemistry and Physics in tandem with Computer Science and Mathematics through strategic hiring of creative scientists to be part of the cutting-edge interdisciplinary environment provided by Purdue University.

Target areas: Successful candidates will have interdisciplinary research interests that can help build a comprehensive suite of capabilities in quantum algorithm research, information theoretic analysis and topological quantum computing, This includes quantum topology, quantum algebra, and applied mathematics, such as computational methods and algorithms, related to QIS.

Qualifications: Candidates must have a PhD in mathematics, or a closely related field, with outstanding credentials in research related to QIS, an excellent track record of publications and potential for developing a vibrant research program, as well as a strong commitment to excellence in teaching. Successful candidates are expected to develop an outstanding research program supported by extramural funding and teach courses at the undergraduate and/or graduate level.

Application Procedure: Applications must be submitted through mathjobs and must include (1) a cover letter (including a discussion of diversity efforts as indicated below), (2) a complete curriculum vitae with publication list, (3) a brief statement of present and future research plans, and (4) a statement of teaching philosophy. In addition, candidates should arrange for at least 4 letters of reference, one of which discusses the candidate's teaching qualifications. Questions regarding the position and search should be directed to rkaufman@purdue.edu.

Applications completed by **December 15, 2021 will be given full consideration**, although the search will continue until the position is filled.

Purdue University's Departments of Mathematics is committed to advancing diversity in all areas of faculty effort, including scholarship, instruction, and engagement. Candidates should address at least one of these areas in **a separate Diversity and Inclusion statement**, indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion. A background check will be required for employment in this position.

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

Assistant/Associate Professor in Mathematics/Data Science Position Announced at Purdue University

The Department of Mathematics in the College of Science at Purdue University invites applications for applications for positions in Data Science at the level of assistant or associate professor to start in August 2022 or a future date subject to negotiation. Early career candidates with exceptional qualifications may be considered for a term-limited early career endowed professorship. There are additional posted positions in data science at Purdue in both the Computer Science and Statistics departments. Candidates are encouraged to apply for all that are relevant. Joint appointments with other departments are possible based on candidate and departmental interests.

Qualifications
Candidates must have a PhD in mathematics or a closely related field, with outstanding credentials in research related to data science, an excellent track record of publications and potential for developing a vibrant research program, as well as a strong commitment to excellence in teaching. We particularly encourage candidates who demonstrate the potential for collaboration across multiple disciplines. All candidates in the broad area of data science are relevant and particular interest will be given to outstanding applicants in the areas of:

- Topological data analysis, functional data analysis, applied probability, applied analysis, approximation theory for the foundation of data science, machine learning

- Data-driven modeling, simulation, inverse problems, computational methods for big data, optimization, scientific machine learning

Successful candidates are expected to develop a vibrant research program supported by external funding, teach undergraduate and/or graduate mathematics courses to a diverse student body, and supervise graduate students. Senior faculty are also expected to mentor junior faculty and participate in the governance of the department, the College of Science, and Purdue University by serving on faculty committees.

These data science positions come at a time of significant investment in the College of Science, which includes the mathematical, computational, physical, and life sciences, with opportunities for collaboration across the College and University. Purdue itself is one of the nation's leading land-grant universities, with an enrollment of over 41,000 students primarily focused on STEM subjects.

Applications
Applications from data science candidates with a strong focus on mathematics should be submitted online through www.mathjobs.org and should include (1) the AMS cover sheet for academic employment, (2) a cover letter, (3) diversity and inclusion statement, (4) a curriculum vitae, (5) a research statement, (6) a teaching statement, and (7) at least four 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 at this site. Reference letter writers should be asked to submit their letters online through www.mathjobs.org.
Direct all inquiries to irena@purdue.edu.

All applications received by December 1, 2021 will be given full consideration.

Purdue University is committed to advancing diversity in all areas of faculty effort, including scholarship, instruction, and engagement. Candidates should address at least one of these areas in a separate Diversity and Inclusion Statement, indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion. A background check will be required for employment in this position.

EOE Statement
Purdue University is an EOE/AA employer fully committed to achieving a diverse workforce. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.

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 https://apply.interfolio.com/94845. Review of applications will begin on December 1, 2021, continuing until the position is filled. **Submitting all required documents by December 1, 2021 is strongly encouraged for full consideration.**

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,

Tenure-Track Assistant Professor of Quantitative Methods Position Announced at Purdue University

PURDUE
UNIVERSITY

The Krannert School of Management invites applicants for one tenure-track faculty position at the assistant professor level in the Quantitative Methods area to begin in the fall semester of 2022. Candidates for the position must have a doctorate in applied mathematics, computer science, economics, engineering, management science, operations research, statistics, or a closely related field. We welcome applicants from all research areas represented within the Quantitative Methods area. We especially encourage applicants with research interests in the disciplines of data science, such as machine learning, high-dimensional data analysis, network analytics and broad data analytics, both theoretically and computationally. Successful applicants are expected to have exceptional potential for leadership in research, to conduct research publishable in top-tier academic journals, to attract and supervise doctoral students, to teach courses in data science, business statistics and management science at the undergraduate and graduate levels, and to actively participate in other school activities.

The Krannert undergraduate quantitative analysis program and the Krannert master program in business analytics and information management have been ranked among the top programs nationally and internationally. For more information on the Quantitative Methods area, our programs, and our faculty, please visit https://krannert.purdue.edu/academics/Quantitative-Methods.

Applications will be reviewed beginning **December 1, 2021.** Interested applicants should apply at https://career8.successfactors.com/sfcareer/jobreqcareer?jobId=16185&company=purdueuniv. Applications should include a cover letter, a curriculum vitae, a research statement, a teaching statement, representative research outputs (up to 5 preprints/reprints), and evidence of teaching ability. Applicants should also submit three letters of reference. Please use this link https://webapps.krannert.purdue.edu/Kars/Apply/SNCYenfQHI. Inquiries can be directed to Professor Mohit Tawarmalani (mtawarma@purdue.edu) or Professor Will Wei Sun (sun244@purdue.edu), Krannert School of Management, Purdue University, 403 West State Street, West Lafayette, Indiana 47907, USA.

Candidates should submit a diversity and inclusion statement. Purdue University's Krannert School of Management is committed to advancing diversity in all areas of faculty effort, including scholarship, instruction, and engagement. Candidates should address at least one of these areas in a separate Diversity and Inclusion Statement, indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion.

Purdue University's vision is to be at the forefront of advancing Data Science-enabled research and education by tightly coupling theory, discovery, and applications while providing students with an integrated, Data Science-fluent campus ecosystem.

Purdue is home to a large number of world class faculty spread across multiple colleges, engaged in fundamental research in Data Science, Machine Learning and Artificial Intelligence, as well as the applications of these methodologies and techniques to advance knowledge in other domains. Over the past five years alone, Purdue's commitment to these areas has attracted over 100 new tenure-track faculty with expertise in data science fundamentals and applications. Employment with the University will require successful completion of background check(s) in accordance with university policies.

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

Visiting Assistant Professor Positions in Mathematics Announced at Purdue University

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 2022 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, 2022 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's Department of Mathematics is committed to advancing diversity in all areas of faculty effort, including scholarship, instruction, and engagement. Candidates should address at least one of these areas in a separate Diversity and Inclusion Statement, indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion

Applications
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, (6) a diversity and inclusion statement indicating past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion, and (7) 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 at SuccessFactors. Reference letter writers should be asked to submit their letters online through www.mathjobs.org. Direct all inquiries to iswanso@purdue.edu. All applications received by November 30, 2021 will be given full consideration. Some offers will be made before the end of January 2022. A background check will be required for employment in these positions.

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

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**

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 https://apply.interfolio.com/94846. Review of applications will begin on December 1, 2021, continuing until the position is filled. **Submitting all required documents by December 1, 2021 is strongly encouraged for full consideration.**

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.

Postdoctoral Research Scholar Positions
Announced at Arizona State University

Postdoctoral Research Scholar (Job #16985)
The School of Mathematical and Statistical Sciences (SoMSS) at Arizona State University (ASU) invites applications for Postdoctoral Research Scholar positions with an anticipated start date of fall 2022. These full-time academic year, benefits-eligible positions are renewable on an annual basis through spring 2025 contingent upon satisfactory performance, availability of resources, and the needs of the university.

Applicants must be within five years of receipt of their PhD to be considered for initial appointments and subsequent renewals.

The School of Mathematical and Statistical Sciences is committed to actively recruiting and retaining a diverse workforce and student body that includes members of systemically underserved groups. All faculty members are responsible for helping to enhance our school's collaborative and inclusive community that strives for equity and equal opportunity.

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

Required qualifications:
- a Ph.D. in the mathematical or statistical sciences or a closely related area by August 10, 2022
- demonstrated potential for excellence in research and teaching
- demonstrated understanding of and potential for success working on diversity, equity and inclusiveness issues in the mathematical community

Desired qualifications:
- a documented research record in an area that meshes with the research interests of a current faculty member or group of faculty members (SoMSS has strong research groups in analysis, combinatorics, computational mathematics, differential equations, dynamical systems, geometry, graph theory, mathematical biology, mathematics education, number theory, probability, statistics, and data science)
- demonstrated success working with diverse student and/or faculty populations

Women and minority candidates are encouraged to apply.

To apply, please submit the following through mathjobs at www.mathjobs.org:
1. A cover letter that briefly explains the candidate's interest in, and fit with, the position
2. A curriculum vitae
3. A personal statement addressing the candidate's research program
4. A statement of teaching experience and philosophy
5. A diversity statement that addresses the candidate's awareness and understanding of diversity, equity, inclusion, and belonging
6. At least four letters of recommendation; one of these letters should address the candidate's teaching qualifications

The application deadline is 4:00 pm Arizona time on December 10, 2021. Applications will continue to be accepted on a rolling basis for a reserve pool after the deadline. Applications in the reserve pool may then be reviewed in the order in which they were received until the position is filled.

The College values our cultural and intellectual diversity, and continually strives to foster a welcoming and inclusive environment. We are especially interested in applicants who can strengthen the diversity of the academic community. Learn more about what The College of Liberal Arts and Sciences has to offer by visiting https://thecollege.asu.edu/faculty.

A background check is required for employment. Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity Affirmative Action Employer. All qualified applicants will be considered without regard to race, color, sex, religion, national origin, disability, protected veteran status, or any other basis protected by law.
https://www.asu.edu/aad/manuals/acd/acd401.html. https://www.asu.edu/titleIX.

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.

MATH ALLIANCE
PARTNER INSTITUTION

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.

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.

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 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.

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 Assistant Professor Position
in Mathematics Announced
at George Mason University

The George Mason University, Department of Mathematical Sciences invites applications for one tenure-track position at the rank of Assistant Professor, to begin in August 2022. George Mason University has a strong institutional commitment to the achievement of excellence and diversity among its faculty and staff, and strongly encourages candidates to apply who will enrich Mason's academic and culturally inclusive environment.

About the Department: George Mason University, located outside of Washington, D.C., is the largest public university in Virginia, and has grown rapidly in the past 20 years to serve the needs of its majority-minority population. The Mathematical Sciences Department offers undergraduate, Master's, and Ph.D. programs in pure, applied, and computational mathematics. High-level research across a variety of disciplines is strengthened through collaborations with local government/industry partners and nearby universities. High-quality teaching and community engagement is achieved through innovative strategies including extensive outreach work, active learning, hands-on undergraduate research, and graduate internships; with a high success rate among both undergraduate and graduate students. For more information about the department, visit us on the web at math.gmu.edu

Responsibilities: The successful candidate will be expected to teach at both the undergraduate and graduate levels and to support the department's undergraduate, M.S., and Ph.D. programs in Mathematics.

Required Qualifications: Candidates must possess a Ph.D. degree by August 25, 2022, and must have strong records in both research and teaching.

Preferred Qualifications: Candidates with postdoctoral experience and a strong vision for promoting diversity and inclusion are preferred; Preference will be given to candidates whose research interests align with those of the department; The search will focus on applicants with expertise in the areas of analysis, number theory, and topology, but all disciplines will be considered.

Special Instructions to Applicants: For full consideration applications must be submitted online at https://jobs.gmu.edu/ and received by December 1, 2021, however applications will be accepted until the position is filled. Applications must include a cover letter, curriculum vitae, research statement, teaching statement and at least four letters of recommendation, one of which discusses teaching. Other correspondence may be directed to math@gmu.edu or by regular mail to: Search Committee (Tenure-Track Assistant Professor) Department of Mathematics Sciences Exploratory Hall, Room 4400 Mail Stop 3F2George Mason University Fairfax, VA 22030

Equity Statement: George Mason University is an equal opportunity/affirmative action employer, committed to promoting inclusion and equity in its community. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability or veteran status, or any characteristic protected by law.

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.

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

Fixed-Term Research Associates in
Mathematics Announced at Michigan State University

The **Department of Mathematics** at **Michigan State University** invites applications for Fixed-Term Research Associates with a starting date of Fall 2022. These positions are to support the research activities of currently funded external research grants as outlined in the grants statement of work and budget. The positions are either academic or annual year, and are benefits eligible that are potentially renewable on an annual basis through Spring 2025 contingent upon satisfactory performance and availability of funding. Candidates will be evaluated on their potential in research and teaching.

Candidates are required to have a Ph.D. in Mathematics by August 10, 2022. Applications from all areas of mathematical research will be considered. Research Associates will be paired with faculty mentors with whom they have compatible research interests and will engage in our active instructional mentoring program.

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

Applications should be submitted via **mathjobs.org.** Submit your application directly at **https://www.mathjobs.org/jobs/list/18643**.

The evaluation process will begin on December 1, 2021, and review of applications will continue until the position is filled*.* A background check is required for employment.

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

Together We Will Statement: The university is requiring all MSU Students, faculty and staff to be vaccinated against COVID-19 with limited exceptions. Learn more at: **https://msu.edu/together-we-will**.

Tenure-Track Assistant Professor Position in Mathematics Announced at Michigan State University

The **Department of Mathematics** at **Michigan State University** invites applications for a tenure system position beginning Fall 2022. Michigan State University's Department of Mathematics represents all areas of mathematics and has leading research groups in Algebra and Algebraic Geometry, Analysis and Differential Equations, Applied Mathematics, Combinatorics, Dynamical Systems, Geometry, Number Theory, and Topology, with cross cutting research at the interfaces of these important areas. In conjunction with these research activities, the department is home to a vibrant postdoctoral program and a strong Ph.D. program. The department supports B.S. degrees in Mathematics, Actuarial Science, and Computational Mathematics, as well as an Advanced Mathematics undergraduate program, with many students continuing on to advanced degrees.

Applicants with research in all areas of mathematics will be considered, however there is a preference for research in analysis, geometry, or combinatorics. The successful candidate will have demonstrated the ability to carry out cutting edge research, commitments to teaching and mentorship of students, and initiative in building an equitable and diverse scholarly and instructional environment. While we expect the appointment to be at the assistant professor level, depending on the experience of the candidate, an appointment at the level of associate or full professor can be considered. Preference will be given to candidates with at least 2 years of experience beyond the Ph.D.

We request that applications include: (1) a 1-page cover letter that frames the application in the context of this ad and MSU's Mathematics Department and addresses the relation of the candidate's research to the areas of research preference. (2) a CV, including a list of publications, a history of external funding, contributed and invited talks, teaching and mentoring roles, contributions to the academic community, and efforts in public outreach. (3) a 2–6 page research statement highlighting past research accomplishments and future plans that frame the applicant's ability to conduct independent research. This statement should include experience or plans to advance diversity, equity, and inclusion within the mathematics research community. (4) a 2–3 page teaching statement describing the applicant's experience in instruction and research mentoring of graduate and undergraduate students, including experiences or plans to create an inclusive and equitable learning environment for students. (5) 4 letters of reference. Three of these letters should address the applicant's research while one letter should address the applicant's instructional experience.

Applications should be submitted via mathjobs.org. Submit your application directly at **https://www.mathjobs.org/jobs/list/18527**. A background check is required for employment.

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

Together We Will Statement: *The university is requiring all MSU Students, faculty and staff to be vaccinated against COVID-19 with limited exceptions. Learn more at:* ***https://msu.edu/together-we-will**.*

The evaluation process will begin on **November 15, 2021**, and review of applications will continue until the position is filled. Questions may be directed to the chair of the search committee, Prof. Xiaodong Wang (**xwang@msu.edu**). Applicants are encouraged to explore the MSU Department of Mathematics website at **https://math.msu.edu**.

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.

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**

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.**

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

MATH ALLIANCE
MEMBER INSTITUTION

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.

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**

Postdoctoral Research Associate Positions in Mathematics Announced at Michigan State University

The **Department of Mathematics** at **Michigan State University** invites applications for Fixed-Term Department Postdoctoral Research Associates with a starting date of Fall 2022. These positions comprise the department postdoctoral fellows that contribute to the research and instructional mission of our unit. These are academic year, benefits eligible positions that are potentially renewable on an annual basis through Spring 2025 contingent upon satisfactory performance and availability of funding. Candidates will be evaluated on their potential in research and teaching.

Candidates are required to have a Ph.D. in Mathematics by August 10, 2022. Applications from all areas of mathematical research will be considered. Research Associates will be paired with faculty mentors with whom they have compatible research interests and will engage in our active instructional mentoring program.

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

Applications should be submitted via mathjobs.org. Submit your application directly at https://www.mathjobs.org/jobs/list/18645.

The evaluation process will begin on December 1, 2021, and review of applications will continue until the position is filled. A background check is required for employment.

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

Together We Will Statement: The university is requiring all MSU Students, faculty and staff to be vaccinated against COVID-19 with limited exceptions. Learn more at: **https://msu.edu/together-we-will**.

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

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.

Equal Employment Opportunity Statement
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.

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.**

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.

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

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 6, 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.**

Assistant Professor in Residence Position Announced at The University of Connecticut

The Department of Statistics at the University of Connecticut invites applications for a non-tenure track position at the level of Assistant Professor in Residence. The position is suitable for candidates who wish to pursue an academic career with an emphasis on teaching and continued growth in that direction. Normal duties include a teaching load of 21 credit hours of instruction per year or the equivalent. The successful candidate may be required to undertake significant tutoring responsibility or other administrative duties with a commensurate reduction in the teaching load.

The successful candidate will have exceptional communication skills and a strong commitment to instruction, advising, and mentoring. The incumbent will teach introductory statistics courses.

For an inquiries or further information please contact Victor Hugo Lachos Davila at hlachos@uconn.edu.

Apply online: https://academicjobsonline.org/ajo/jobs/19417

Tenure-Track Assistant Professor in Data Science Announced at The University of Connecticut

The Department of Statistics at the University of Connecticut invites applications for a tenure-track position at the level of Assistant Professor in the area of Data Science. The Department is a highly active center of research, education, and service with regional, national, and international prestige. It is a founding member of the New England Statistical Society, for which it houses the administration.

The successful candidate will be expected to contribute to research and scholarship through extramural funding, high-quality publications, impact as measured through citations, and national recognition such as honorific awards. The successful candidate will share a deep commitment to effective instruction at the undergraduate and graduate levels, innovative courses and instruction methods, and mentoring of students in research, outreach, and professional development and contributing to the development of data science. Successful candidates will also be expected to broaden participation among members of under-represented groups; demonstrate through research, teaching, and/or public engagement the commitment to, and support of, diversity in the learning experience; integrate multicultural experiences into instructional methods and research tools; and provide leadership in developing pedagogical techniques designed to meet the needs of diverse learning styles and intellectual interests.

Apply online: https://academicjobsonline.org/ajo/jobs/19337.

MATH ALLIANCE
MEMBER INSTITUTION

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).

Tenure-Track Assistant Professor in Mathematics Position Announced at University of Arkansas

The Department of Mathematical Sciences at the University of Arkansas invites applications for a tenure-track assistant professor in mathematics to begin August 15, 2022.

The successful candidate will have demonstrated potential or ability to conduct high-impact research in mathematics. Preference will be given to those who can support established research areas as well as enhance the breadth of research activities of the department. Additionally, we seek candidates who have an enthusiasm for teaching at both the undergraduate and graduate levels and can supervise both graduate and undergraduate researchers.

Completed applications received by **December 15, 2021** will be assured full consideration. Late applications will be reviewed as necessary to fill the position.

All application materials should be submitted online both at MathJobs (https://www.mathjobs.org/jobs/list/18992) and at https://uasys.wd5.myworkdayjobs.com/en-US/UASYS/job/Assistant-Professor-of-Mathematics_R0007165. The application package should include a cover letter, curriculum vitae that includes a publication list, diversity statement, and brief descriptions of research and teaching philosophy. Applicants should also arrange for at least four letters of recommendation, at least one of which addresses the applicant's teaching experiences and capabilities.

For additional inquiries, please contact the search committee chair, Andy Raich at araich@uark.edu.

This position requires a national criminal background and registered sex offender check. The University of Arkansas is an Affirmative Action/EOE institution committed to achieving diversity in its faculty and staff. We encourage applications from all qualified candidates, especially individuals who contribute to diversity of our campus community.

The university welcomes applications without regard to race/color, sex, gender, pregnancy, age, national origin, disability, religion, marital or parental status, protected veteran or military status, genetic information, sexual orientation, gender identity or any other characteristic protected under applicable federal or state law. Persons must have proof of legal authority to work in the United States on the first day of employment. All applicant information is subject to public disclosure under the Arkansas Freedom of Information Act.

Tenure-Track Assistant Professor Position in Pure Mathematics Announced at San Jose State University

The Department of Mathematics and Statistics at San José State University invites applications for one tenure-track faculty position in Mathematics at the rank of Assistant Professor to begin in Fall 2022. We seek applicants with demonstrated evidence of excellence in teaching at the university level, outstanding research potential, and a commitment to department service.

Applicants must have research expertise in algebra, number theory, topology, or geometry. Applicants are required to have a doctoral degree in the mathematical sciences or a closely related field by time of the appointment.

Successful candidates will demonstrate evidence of a commitment to equity and inclusion through their research, teaching, and/or service. All applicants must include a Diversity Statement with their application package. A guide to writing this statement can be found at SJSU Diversity Statement Guidelines, along with information about how these statements will be evaluated.

Required Qualifications
- Doctorate in mathematical sciences or a closely related field by the time of appointment.
- Applicants should have research expertise in algebra, number theory, topology, or geometry.
- Applicants should be able to engage and supervise SJSU students in research projects and master's theses. An interest in interdisciplinary research and learning is an advantage.
- Applicants should have experience with, or demonstrated interest in, employing active learning teaching strategies at various levels.
- Applicants should demonstrate an awareness of and sensitivity to the educational goals of a multicultural and socially diverse student population as might have been gained in cross-cultural study, training, teaching, and other comparable experience.

Key Responsibilities
The candidate will teach a variety of undergraduate and graduate courses, supervise graduate students, maintain a program of scholarly activity, and work on curriculum development.
The candidate will participate in shared governance, usually in department, college, and university committees and other service assignments.

Application Procedure
Click Apply Now at this link to complete the SJSU Online Employment Application and include the following:
- letter of interest
- curriculum vitae
- diversity statement (approximately 2 pages)
- statement of teaching interests/philosophy (approximately 2 pages)
- statement of research plans (approximately 2 pages)
- names and contact information for three (3) reference letter writers. At least one should address teaching.

Inquiries may be directed to the Department Chair: Steven Crunk steven.crunk@sjsu.edu

Employment is contingent upon proof of eligibility to work in the United States. Satisfactory completion of a background check (including a criminal records check) is required for employment. CSU will make a conditional offer of employment, which may be rescinded if the background check reveals disqualifying information, and/or it is discovered that the candidate knowingly withheld or falsified information. Failure to satisfactorily complete the background check may affect the continued employment of a current CSU employee who was conditionally offered the position.

San José State University is an Affirmative Action/Equal Opportunity Employer. We consider qualified applicants for employment without regard to race, color, religion, national origin, age, gender, gender identity/expression, sexual orientation, genetic information, medical condition, marital status, veteran status, or disability. This policy applies to all San José State University students, faculty, and staff as well as University programs and activities. Reasonable accommodations are made for applicants with disabilities who self-disclose. Note that all San José State University employees are considered mandated reporters under the California Child Abuse and Neglect Reporting Act and are required to comply with the requirements set forth in CSU Executive Order 1083 as a condition of employment.

Multiple Tenure-Track Faculty Positions in Data Science Announced at James Madison University

James Madison University (JMU) invites applications for an exciting collaborative environmental data science cohort hire. The cohort will consist of seven tenure-track faculty at rank of assistant or associate professor who will work collaboratively across disciplines to develop curricula and research programs at the intersection of data science, climate science, and environmental analytics. One or more of the seven positions could be teacher-scholar post-doctoral appointments. Successful candidates will possess the expertise, creative ability, interdisciplinary problem-solving skills, and team-oriented work ethic to establish James Madison University as a home for environmental data science curricula and research. Given that many of the challenges facing the environment differentially affect particular populations of humans, a critical component of this cohort would be the integration of social justice into the curriculum and research initiatives.

Successful candidates will have primary appointments in an academic unit most aligned with their disciplinary focus, including, but not limited to, Biology, Chemistry and Biochemistry, Geology and Environmental Science, Computer Science, Mathematics and Statistics, Physics and Astronomy, and the School for Integrated Sciences, with at least two of the appointments being in Mathematics and Statistics.

Duties and Responsibilities:
Teaching responsibilities could include introductory and upper division courses and laboratory courses, and/or graduate courses. Successful candidates are expected to initiate and maintain an active research program involving students. Collaboration with other cohort hires and faculty in other fields is expected.

Qualifications:
Applicants will have a Ph.D. in a relevant discipline or field, and the potential for vibrant, collaborative teaching and scholarship at our primarily undergraduate institution. Consideration will be given to ABDs at the advanced dissertation stage that exhibit particularly compelling records.

To apply, visit https://joblink.jmu.edu/postings/10648 or go to joblink.jmu.edu and reference posting F1761. **Review of applications will begin December 15, 2021** and the positions will remain open until filled.

Salary will be commensurate with experience. For more information, contact the chair of the search committee, Dr. Steven Whitmeyer (email: whitmesj@jmu.edu).

James Madison University is committed to creating and supporting a diverse and inclusive work and educational community that is free of all forms of discrimination. This institution does not tolerate discrimination or harassment on the basis of age, color, disability, gender identity or expression, genetic information, national origin, parental status, political affiliation, race, religion, sex, sexual orientation or veteran status We promote access, inclusion and diversity for all students, faculty, staff, constituents and programs, believing that these qualities are foundational components of an outstanding education in keeping with our mission. The university is interested in candidates whose experience and qualifications support an ongoing commitment to this core quality Anyone having questions concerning discrimination should contact the Office for Equal Opportunity: (540) 568-6991.