THE MATH ALLIANCE

DR. DAVID GOLDBERG
Director

March has come and gone, and already we're into April. As this is the March newsletter, and March is Women's History Month, it is a good time to remind ourselves to read the Joint Committee on Women in the Mathematical Sciences page with this year's honorees. Of course, with all the specialized history months we also should emphasize that women make history all year round, and we should recognize their contributions all year long. As we move into April, spring is in the air. This year there is a lot of excitement around the upcoming total solar eclipse on Monday, April 8. It is a great time to raise young interest in STEM, and there are a lot of opportunities for those who are quantitatively inclined to see how the subjects they enjoy can be applied to such a singular event. At Purdue we are very fortunate to be very close to the path of totality, and Indianapolis, which is just 60 miles south of is very close to the center of the path of totality. So, Purdue is planning a big event at the Indianapolis Motor Speedway, so any of you who are close by, I encourage you to consider attending this event. As matter of our friendly rivalry with Indiana University, my friends there point out that Bloomington is smack dab in the middle of the path, and will experience more than 4 minutes of totality. As I look at the weather forecast for Monday, however, I am a little concerned that right now they predict partly cloudy, with rain showers. However, I am hopeful that it will be clear and we'll have a great eclipse experience.

If you are able to get to the path of totality, I encourage you to make the effort, as this opportunity does not come along all that often. The next total solar eclipse that will be visible from the contiguous U.S. will be August 23, 2044.

Now just a friendly reminder that we have opened nominations for the 2024-2 F-GAP, program. This is our program which helps students with the process of applying to graduate schools by pairing them with a mentor in a doctoral program. Even if you are such a mentor, I encourage you to nominate your students, as this gives the Scholars more community, more resources, and more events, including the opportunity to participate in the 2024 Career Paths Workshop at IMSI. (Here is the 2023 workshop page, the new one should be up soon.) Also, Mentors, if you nominate a student for F-GAP, and they are accepted and invited to the workshop, you will be invited too! F-GAP is the heart of what we do in the Math Alliance, and is our most successful program, but it only works well if we get the students involved who should be involved. So please nominate any Scholars who should be considering graduate school for 2025 to be part of this great activity.

Also, I'll remind you, again, of the dates for the 2024 Field of Dreams Conference, November 8-10, in Atlanta. The link is a fun way to remind us of this, but I'll also report that the Agenda Committee is hard at work on planning the event. I hope to have some announcements soon about major aspects of this year's conference, so stay tuned.

What's Happening Next?

- **MAA MathFest 2023** Indianapolis, IN Aug. 7-10 2024

- **2024 Joint Statistical Meetings (JSM 2024)** Portland, OR
   Aug. 3-8, 2024

- **STATFEST 2024** Columbia Univ.ersity- New York, NY
   Sept. 21, 2024

- **2024 Field of Dreams Conference (FOD 2024)** Atlanta, GA
   November 8-10, 2024

2024-25 F-GAP Program

We are now accepting applications for the 2024-25 F-GAP Program!

What is the F-GAP Program? F-GAP (Facilitated Graduate Admissions Procedure) is a mentoring program for students that are planning to apply to an MS or PhD program in the quantitative sciences within the next year.

Who is eligible to participate? Participation in F-GAP is generally limited to students who:
- will be eligible for graduate school in a quantitative science applying for Fall 2025
- who are US citizens or permanent residents
- who come from ethnic groups that are underrepresented in the quantitative sciences.

Why should a student participate in F-GAP? F-GAP students are matched with a faculty facilitator who will guide and advise them through the graduate school application process. ***Also,*** active F-GAP students are also invited to attend the Career Paths Workshop in June and the Field of Dreams Conference in November 2024 with all expenses paid by the Math Alliance!

Nominate your students here: https://forms.gle/grHsn3isjCu3EUSQA

Questions? see the F-GAP webpage or email Roberto Soto

New Southeast Regional Math Alliance!

There will be a kickoff workshop for the new Southeast Regional Math Alliance. The workshop will take place on Friday, **April 5th** from 9am-12pm at the Atlanta University Center. If you are unable to attend, we would be very happy for you to nominate someone else from your department who is able to come in your place. We have space to accommodate a small number of additional participants, so let us know if you have additional faculty who would like to attend.

The Southeast Regional Math Alliance focuses on activities which enhance a sense of belonging in graduate school as a way to increase student success and retention in the mathematical sciences, especially among students from underrepresented or underserved groups. In particular, we work to:

- Establish new lines of communication and form partnerships between undergraduate and graduate institutions.
- Improve the culture of graduate schools in our region.
- Provide a central communication hub for activities in the Southeast which may be of interest to Math Alliance scholars and/or mentors.

We are affiliated with Math Alliance, which is a national organization with similar aims.

At this kickoff workshop, we will have structured conversations which will allow your institution to share its mission and vision for serving students in the mathematical sciences. Graduate programs will learn how they can better prepare to receive students from a variety of institutions in the region, and graduate programs will share what they are looking for in prospective students. We will also craft a plan for future events and activities in partnership with the Southeast Regional Math Alliance.

Our event is being sponsored by the AUC Data Science Initiative, and we will have the opportunity to learn more about their activities during our workshop.

We would deeply value having your institution be part of this conversation, and we hope to hear from you soon. Please respond to this email at your earliest convenience but no later than **Monday, March 11, 2024**. Unfortunately, at this time, we have no funding available to offset your travel expenses. We understand that this may make it more difficult for you to attend, and obtaining funding for future events is one of our top priorities.

We would be happy to answer any questions you might have.

Sincerely,

Abbey Bourdon (Wake Forest University)
Sutandra Sarkar (Georgia State University)
Shanise Walker (Clark Atlanta University)

2024 Hodge Theory Conference

A conference on Regulators V (including motives, Hodge theory, and algebraic cycles) will be held at Pisa in June. There is some funding to support graduate students and Postdocs.

Link to the conference website: 2024 Hodge Theory Conference

UP GRADe Workshop

UP GRADe- University of Pennsylvania, May 3, 2024

The Workshop UP GRADe is to take place at the University of Pennsylvania on **May 3, 2024**. This event is catered toward undergraduate students from groups traditionally underrepresented in math who are thinking of applying to math graduate school this fall or in the future. We recognize the importance of encouraging and mentoring underrepresented groups in mathematics to pursue graduate study in mathematics and to seek mathematical careers. This workshop will provide activities meant to help you with the math graduate application process, as well as connect you with other mathematicians interested in creating an inclusive and supportive environment in mathematics.

Tentative program includes:
- Advice on how to pick a grad program and what you can do before you apply
- Q&A panel with UPenn math faculty
- Q&A panel with UPenn math graduate students and alumni
- Networking opportunities
- (Optional) Personalized feedback on application materials after the workshop

Additional information can be found **here**.
Register **here**.

A limited amount of funding (travel and lodging) is available for those who register early.

Deadline for registration: April 27.

Deadline for funding: April 10. Decisions will be made immediately after.

Organizers: Angela Gibney, Julia Hartmann, Mona Merling, and Yumeng Ou, in partnership with GeMs in Math.

2024 Mathematically Gifted and Black Honorees

This years' honorees were announced in February on the **Mathematically Gifted and Black Website**.

The 2024 honorees that are listed below are part of our Math Alliance Community:

2/1- Toka Diagana*

2/2- Lakeshia Legette Jones*

2/6- Noelle Sawyer*

2/7- Talon Johnson†

2/8- Yewande Olubummo*

2/9- Kevin Harris Jr.†

2/12- Fadekemi Janet Osaye *

2/15- Noel Bourne†

2/19- Renee Brady-Nicholls†

2/22- Erica Graham*

2/23- Ariel Leslie†

2/27- Tafari James†

2/27-Quiyana Murphy†

2/28- Te'a Riley†

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*Math Alliance Mentor   †Math Alliance Scholar

DOE's Office of Science Is Now Accepting Applications for Fall 2024 Undergraduate Internships
Students Will Conduct Research and Technical Projects at National Laboratories

Applications are currently being accepted for the Fall 2024 term of two undergraduate internship programs offered by the **Department of Energy** (DOE) Office of Science: the Science Undergraduate Laboratory Internships (SULI) program and the Community College Internships (CCI) program. The application deadline is May 22, 2024, at 5:00 p.m. ET. Through SULI and CCI, undergraduate students and recent graduates discover science and technology careers at the DOE national laboratories and gain the experience needed to transition from intern to employment. Interns work directly with national laboratory scientists and engineers, assisting them on research or technology projects that support the DOE mission. SULI is open to full-time students attending 4-year institutions and community colleges or recent graduates within two years of receiving their bachelor's degree or associate degree, while CCI is exclusively for community college students. Both programs are stipend-based and offered three times annually in Fall, Spring, and Summer terms.

Three workshops are planned to provide strategies for submitting a compliant application and to learn about the internship experience from the voices of CCI and SULI alumni. Two workshops will introduce the program and application process for each program, followed by the final workshop which will review the application process for each program before highlighting the research opportunities and internship experience at the DOE national labs through an alumni panel discussion.

- April 10, 2024, from 1:30 – 2:30 pm EDT for CCI - Register here
- April 16, 2024, from 2:00 – 3:00 pm EDT for SULI - Register here
- April 24, 2024, from 1:30 – 2:30 pm EDT for Application Review and SULI/CCI Alumni Panel - Register here

SULI and CCI are managed by the Office of Workforce Development for Teachers and Scientists (WDTS) in the Office of Science. More information can be found at the WDTS website.

ASA

♔ COLUMBIA UNIVERSITY
DEPARTMENT OF STATISTICS

COMIS
committee on minorities in statistics

♔ COLUMBIA | MAILMAN SCHOOL OF PUBLIC HEALTH
BIOSTATISTICS

SAVE THE DATE

STATFEST
2024

Columbia University
New York, NY
September 21

A FREE, ONE-DAY CONFERENCE FOR STUDENTS!

Learn
about careers and graduate programs in statistics & data science

Connect
with other students, professionals, graduate programs & employers

More info:

tinyurl.com/statfest2024

Applications for Travel Awards close June 1, 11:59pm PT

ALL ARE WELCOME!

The mission of the American Statistical Association's Committee on Minorities is to foster participation in statistics and data science by members of minority groups that have been historically under-represented in the field, and to create a more diverse and inclusive discipline.

NATIONAL DATA MINE NETWORK

The American Statistical Association (ASA) has secured a three-year grant from the National Science Foundation to establish the National Data Mine Network.

100
STUDENTS PER YEAR AT MINORITY SERVING INSTITUTIONS

$5K
IN TOTAL RESEARCH STIPENDS FOR 9-MONTHS OF PARTICIPATION

70+
CORPORATE PARTNERS WITH DATA DRIVEN PROJECTS

100%
VIRTUAL TEAMS THAT COLLABORATE WEEKLY WITH INDUSTRY MENTORS

THE DATA MINE AT A GLANCE

A VISION

The first data-intensive experience embedded in a large-scale living-learning community for students from all majors.

A DEPTH OF KNOWLEDGE

Students apply knowledge of tools, including R, SQL, Python and Linux clusters, and (in some cases) advanced tools for projects requiring AI and machine learning.

AN INNOVATION ENGINE

Interdisciplinary teams bring new perspectives to tough problems, where data science is a key part of the solution.

LEARNING OUTCOMES FOR STUDENTS

- DISCOVER & APPLY DATA SCIENCE TOOLS
- CROSS FUNCTIONAL COLLABORATION
- AGILE PROJECT MANAGEMENT METHODOLOGY
- PROFESSIONAL DEVELOPMENT

Applications for 2024-2025 are open

PURDUE UNIVERSITY® | The Data Mine   ASA AMERICAN STATISTICAL ASSOCIATION Promoting the Practice and Profession of Statistics®   NSF

WWW.DATAMINE.PURDUE.EDU   DATAMINE@PURDUE.EDU

Postbaccalaureate Certificate in Mathematics

The pathway to graduate school!

JOIN OUR POSTBAC!

- No application fee required.

- 1 year program preparing students for PhD programs in pure and applied mathematics.

- Teaching assistantship covering at least 1/2 tuition (*in-state*) and approximately $21,000 stipend.

- Take graduate courses.

- Be a teaching assistant.

- Get help with PhD applications.

APPLY TODAY

CONTACT US

Bernard Lidický
Professor and Associate Chair
lidicky@iastate.edu
(515) 294-8136

Jason McCullough
Associate Professor
jmccullo@iastate.edu
(515) 294-8150

WHAT DO I NEED TO APPLY?

- Bachelor degree from an accredited university (*mathematics bachelor's degree is not required*).

- Proof-based math classes.

What are the learning outcomes of this program?

- Read and write mathematical proofs, producing arguments that are logically and syntactically correct.

- Develop the ability to teach mathematics by leading recitation sections.

- Solidify core knowledge in analysis and algebra.

- Identify preferred areas of specialization in mathematics.

MAA Project NExT
NEW EXPERIENCES IN TEACHING

Launch the NExT stage of your career

MAA Project NExT (New Experiences in Teaching) is a year-long professional development program for new(ish) or recent PhDs in the mathematical sciences. The program is designed to connect new faculty with expert teachers and leaders in the mathematics community and address the three main aspects of an academic career: teaching, research, and service.

Recent program sessions have included:

- getting your research and grant-writing off to a good start,
- innovative teaching and assessment methods and why they work,
- finding your niche in the profession,
- attracting and retaining underrepresented students,
- balancing teaching, research, and service demands,
- starting an undergraduate research program, and
- preparing for tenure.

MAA Project NExT Fellows join an active community of faculty who have become award-winning teachers, innovators on their campuses, active members of the MAA, and leaders in the profession.

MAA Project NExT welcomes applications from new(ish) and recent PhDs in postdoctoral, tenure-track, and visiting positions. We particularly encourage applicants from underrepresented groups, including women and minorities. Applications for the 2024 cohort of MAA Project NExT Fellows are due on **April 15, 2024** and can be found at projectnext.maa.org.

Project NExTers (Green '23) at MAA MathFest in Tampa.

Application deadline: April 15, 2024
projectnext.maa.org • projectnext@maa.org

MSRI / Simons Laufer Mathematical Sciences Institute (SLMath) Berkeley, CA

Spring 2024 Scientific Workshops at SLMath

The Simons Laufer Mathematical Sciences Institute (SLMath, formerly known as MSRI) in Berkeley, California welcomes registrations for our Spring 2024 workshops, listed below. SLMath workshops are free of charge to attend, thanks to the generous support of our funders, including the National Science Foundation. (View www.msri.org/workshops for details, as some workshop dates or information may be subject to change. An updated schedule of all talks, including online broadcasts, will be posted in advance of each event.)

* denotes lead organizer(s).

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

[Recent Developments in Noncommutative Algebraic Geometry](#): April 8-12, 2024
Organizers: Arend Bayer (University of Edinburgh), Graham Leuschke (Syracuse University), Alexander Polishchuk (University of Oregon), Susan Sierra (University of Edinburgh), Spela Spenko (Université Libre de Bruxelles), Gregory Stevenson (Aarhus University)

Other Workshops
[Advances in Lie Theory, Representation Theory and Combinatorics: Inspired by the work of Georgia M. Benkart](#): May 1-3, 2024
Organizers: Hélène Barcelo (MSRI / SLMath), Ellen Kirkman (Wake Forest University), Gail Letzter, Daniel Nakano (University of Georgia), Arun Ram (University of Melbourne)

Register Online: [msri.org/workshops](#)

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

Resources for Workshop Attendees: SLMath is pleased to be able to offer a private room for nursing parents. Childcare grants are available for researchers with children under the age of 18 (limited to US Citizens and Permanent Residents, and foreign visitors with a visa status that allows for compensation, such as a J1). See website for full details.

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

Member Institution

POSITION AT UNIVERSITY OF CALIFORNIA, RIVERSIDE

Position title: Academic Coordinator/Unit 18 Lecturer
Salary range: $78,342 - $152,604
Open date: February 9, 2024
Next review date: Tuesday, Apr 9, 2024 at 11:59pm (Pacific Time) Apply by this date to ensure full consideration by the committee. Final date: Sunday, Jun 30, 2024 at 11:59pm (Pacific Time) Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

POSITION DESCRIPTION: The Department of Mathematics at the University of California, Riverside invites applicants for a full time position whose duties will be split between our Lecturer and Academic Coordinator job titles. The successful candidate will be tasked with developing, implementing, and coordinating a large portion of our College Algebra and pre-calculus program. Responsibilities include, coordinating and teaching large, multisection college algebra and precalculus classes, maintaining online homework, training, supervising, and mentoring teaching assistants, assisting the department with academic planning and enrollment management, data collection and maintenance, website design and maintenance, and supporting of the instructional mission of the math department.

Minimum qualifications: A master's degree in mathematics, applied mathematics, or a closely related field and demonstrated excellence at job specific skills, including teaching experience.

Preferred qualifications: A PhD in mathematics or applied mathematics and demonstrated excellence at job specific skills, including substantial teaching experience.

To apply: go to https://apptrkr.com/5006124 and submit a
- Cover Letter
- Curriculum Vitae
- Teaching Statement, including plan to excel as a Course Coordinator
- Letters of Reference – Applicants should provide 3 letters on reference that are specific to their qualifications for these jobs.

Evaluation of applications will begin on April 9, 2024 and will continue until the position is filled. For full consideration, applicants should submit their complete applications before the above date. People from underrepresented groups are particularly encouraged to apply.

For more information about the position, please contact Dr. Estela Gavosto, Department of Mathematics: estelag@ucr.edu. For inquiries regarding the application process, please contact Ashley Lawson, Academic Personnel, at ashley.lawson@ucr.edu.

Advancement through the Academic Coordinator and Lecturer ranks at the University of California is through a series of structured, merit-based evaluations, occurring every 2-3 years, each of which includes substantial peer input.

QUALIFICATIONS: Basic qualifications (required at time of application). A master's degree in mathematics, applied mathematics, or a closely related field and demonstrated excellence at job specific skills, including teaching experience.

Preferred qualifications: A PhD in mathematics or applied mathematics and demonstrated excellence at job specific skills, including substantial teaching experience.

Apply link: https://aprecruit.ucr.edu/JPF01892   **Help contact**: ashley.lawson@ucr.edu

As a University employee, you will be required to comply with all applicable University policies and/or collective bargaining agreements, as may be amended from time to time. Federal, state, or local government directives may impose additional requirements.

mathalliance@purdue.edu | www.mathalliance.org

This ad has been abbreviated to fit the page. You can see the ad in its entirety on our website.

POSITION AT VIRGINIA COMMONWEALTH UNIVERSITY

Position: Virginia Commonwealth University in Richmond, Virginia, seeks two Mathematics faculty at the rank of Instructor. The Instructor position is a nine-month term position that may be renewed on a yearly basis. Positions will begin August 16, 2024.

Responsibilities of the Position: Teach a full load of courses each semester of undergraduate mathematics or the equivalent. Future responsibilities may include leadership and coordination in a lower-level mathematics course and committee service to the department. Candidates with teaching interests in all areas of mathematics will be considered but preference will be given to those with interests or experience teaching college algebra, pre-calculus, and differential and integral calculus.

Required Qualifications: Master's degree or higher in Mathematical Sciences, Education, or related field including at least 18 graduate hours in mathematics. Applicants must have experience teaching mathematics or a related discipline, as well as experience with working in and fostering a diverse faculty staff, and student environment, or the commitment to do so.

The Department: The Department of Mathematics and Applied Mathematics contains 26 tenure-track and 19 non-tenure-track faculty, teaching close to 30,000 student credit hours per year. The Department is a member of the Association for Women in Mathematics and a Silver member of the Math Alliance. The mission and vision statements of the Department can be found at https://math.vcu.edu/about/mission-statement and https://math.vcu.edu/about/vision-statement. Among its key current objectives is the improvement of student outcomes in our lower-level courses, and the continued strengthening of our department's track in secondary teacher education preparation and mathematics education outreach initiatives, such as our Math Circle and Sonya Kovalevsky Day. We seek ambitious faculty members to help grow and strengthen the department by expanding teaching, research, and grant activity. We are excited about the opportunities to grow in these areas and are particularly interested in mathematics educators with similar interests. The Department Web page may be found at http://www.math.vcu.edu.

Our Students and the University: Virginia Commonwealth University is a doctoral granting public institution that enrolls close to 29,000 students: 21,500 undergraduates, 55% minority, 37% first generation, and 4% international students, representing 141 countries. The University Web page may be found at http://www.vcu.edu.

Diversity, Equity, and Inclusion: As a preeminent national, urban, public research university and academic health center, Virginia Commonwealth University is committed to organizational diversity, equity and inclusion - an environment where all can thrive in their pursuit of excellence. Applicants are requested to submit a Statement of Contributions to Diversity, Equity, and Inclusion (typically between 150-300 words) providing your career aspirations and contributions toward promoting diversity, equity, and inclusion. Through this statement, you can share how your lived experiences, and academic and professional activities will impact your contribution to VCU's mission of promoting equity and inclusion. For more information and guidelines, see https://faculty.provost.vcu.edu/prospective-faculty/.

How to Apply for the Position: Applicants must submit electronically through the VCU Career Site https://vcu.csod.com/ux/ats/careersite/2/home/requisition/5168?c=vcu: (a) a cover letter that includes a description of your professional goals and addresses your qualifications and experience as they relate to the responsibilities of this position, (b) a current curriculum vitae, (c) a detailed philosophy of teaching statement, (d) the above mentioned statement of contributions to DEI, and (e) contact information for three references. In addition, candidates must have three letters of recommendation submitted electronically through https://www.mathjobs.org.

Applicants must be eligible to work in the United States. Applications will be considered until the position is filled; however, applications received by **March 22, 2024,** will be given priority.

POSITION AT WASHINGTON STATE UNIVERSITY

Assistant Professor (Teaching) - Data Analytics

Job Description:
This position will be primarily remote. The incumbent will be expected to visit the Everett Campus for in-person meetings when necessary.

The Opportunity:
The Program in Data Analytics with the College of Arts and Sciences at Washington State University invites applications for an Assistant Professor (Teaching) Career-Track in Data Analytics. The position is full-time, fixed-term, nine-months, three-year appointment with possibility of renewal. The work will be performed on the WSU Global (online) Campus. We seek scholars whose field is in statistics or a closely related field who is strongly committed to developing quality educational experiences while also being deeply interested in mentoring and contributing to campus diversity, equity, and inclusion efforts. It is anticipated that the successful candidate will begin the appointment on August 16, 2024.

Job Duties:
As a Data Analytics faculty member on the WSU Global Campus, your responsibilities will be to teach asynchronous online classes and make service contributions to your department, college, university, community, and profession. The workload distribution of the position is 80% teaching and 20% programmatic development and service to the program, department, college, university, community, and profession. Expected courses are introductory-level and upper-division courses within the Data Analytics curriculum. Topics will include data structure, data-based learning, computing, and statistical methods.

The Program in Data Analytics is headquartered at the WSU Everett Campus in Everett, Washington. As a faculty member of that program, you will be expected to visit the campus for face-to-face meetings when necessary.

This is a temporary, three (3) year, 9-month, academic year appointment.

Appointment Start Date: August 16, 2024

Posting Close Date: Applicants must submit their completed application by **Monday, April 15, 2024 at 11:59 p.m**.

 For salary range, available position benefits, required qualifications, and application information, please go to the following link:
 https://wsu.wd5.myworkdayjobs.com/en-US/WSU_Jobs/details/Assistant-Professor--Teaching----Data-Analytics_R-11355?q=data+analytics