



# NATIONAL ASSOCIATION OF MATHEMATICIANS

# NEWSLETTER

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## ATTENDEES AT THE 2022 NAM MATHFEST HELD AT MORGAN STATE UNIVERSITY

The 2022 NAM MATHfest was graciously hosted by Morgan State University. This photo shows participants gathering together in Baltimore, MD at our first in-person MATHFest since 2019!



## The National Association of Mathematicians (NAM)

publishes the NAM Newsletter four times per year.

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**NAM's History and Goals:** The National Association of Mathematicians, Inc. (known as NAM) was founded in 1969. NAM, a nonprofit professional

organization, has always had as its main objectives, the promotion of excellence in the mathematical sciences and the promotion and mathematical development of under-represented minority mathematicians and mathematics students. It also aims to address the issue of the serious shortage of minorities in the workforce of mathematical scientists.

**NAM's National Office, subscriptions and membership:** National Association of Mathematicians, 2870 Peachtree Rd NW #915-8152, Atlanta, GA 30305; e-mail: [info@nam-math.org](mailto:info@nam-math.org).

**NAM's Official Webpage:** <http://www.nam-math.org>

**Newsletter Website:** The NAM website has a list of employment as well as summer opportunities on the Advertisements page. It also features past editions of the Newsletter on the Archives page.

**Letters to the editor and articles** should be addressed to Dr. Chinennye Ofodile via e-mail to [editor@nam-math.org](mailto:editor@nam-math.org).

## From the President



**“If one has courage, nothing can dim the light which shines from within.”**

— Maya Angelou

Hello friends,

Please help me to welcome NAM's new Newsletter Editor, Dr. Zerotti Woods. We couldn't be more excited! Dr. Woods will be heading up the Publicity and Publications Committee and joining the NAM Board of Directors. Expect to see some fresh ideas in the Spring NAM Newsletter, which will be his

editorial debut. At this moment we are all preparing for the Joint Math Meetings. I hope to see you at the NAM named lectures. Dr. Ryan Hynd (U Penn) will be giving the 2023 Claytor-Woodard Lecture and Dr. Nathan Alexander (Morehouse College) will give the Cox-Talbot Lecture. The Recent PhDs Session is always a favorite, and I will be giving the Hrabowski-Gates-Tapia-McBay lecture. Keep an eye out for the 2023 Faculty Conference on Research and Teaching Excellence (FCRTE) at Hampton University April 14-15, 2023.

*Be well,*

*Dr. Omayra Ortega*



## Publishing in the NAM Newsletter

**Submissions:** The *NAM Newsletter* is a quarterly publication. Articles and letters should be submitted electronically to the editor at [editor@nam-math.org](mailto:editor@nam-math.org). You can find more information at the web page

<https://www.nam-math.org/sys/website/?pageId=18103>

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### Advertising:

*NAM Online Advertisement Policy:* As a part of its Newsletter Advertising, a copy of the advertisement will be placed on the web during the period it appears in the quarterly Newsletter - at the Job Openings website.

*NAM Newsletter Print Advertisement Policy for Non-institutional Members:* Receipt of your announcement will be acknowledged. You will be billed after the advertisement appears. A copy of the advertisement will be placed on the *NAM Newsletter* website during the period it appears in the *NAM Newsletter*. To estimate the page size, use 12 point font on a standard size page.

1. One issue advertising

A. One-fourth page	\$200
B. One-third page	\$300
C. One-half page	\$400

D. Two-thirds page	\$500
E. Three-fourths page	\$600
F. One whole page	\$800

\*advertisements over one page are pro-rated

2. Consecutive, multiple issue advertising

Each consecutive issue thereafter 75% of the first issue charge.

*NAM Newsletter Print Advertisement Policy for Institutional Members:* Receipt of your announcement will be acknowledged. You will be billed after the advertisement appears. Institutional Members of NAM are entitled to one 1/4 page advertisement at 1/2 the regular price during the fiscal year of their membership. Additional advertisements follow the above stated cost structure. A copy of the advertisement will be placed on the *NAM Newsletter* website during the period it appears in the *NAM Newsletter*. To estimate the page size, use 12 pt font in your favorite word processing program on a standard size page.

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**Deadlines:** The deadlines for submissions and advertisements can be found in the following table.

<b>Edition</b>	<b>Deadline</b>
Spring	March 1
Summer	June 1

<b>Edition</b>	<b>Deadline</b>
Fall	September 1
Winter	December 1

Advertisements should be submitted electronically to the editor at [editor@nam-math.org](mailto:editor@nam-math.org).

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*We reserve the right to reject any advertising that is not consistent with the stated goals of NAM, or that is in any way deemed inappropriate.*



## 2023 NAM Undergraduate MATHFest at Morgan State University

by Salvador Ochoa Zavalza

This year, over 100 participants from 45 institutions gathered to celebrate the annual National Association of Mathematicians Undergraduate MATHFest XXXII that took place from September 23rd through September 25th in Morgan State University, Baltimore, MD. Morgan State University, is an HBCU that has encouraged underrepresented communities to complete research and pursue higher education. It was more than fitting for the host of NAM's MATHFest to have such profound history in the continuous battles of providing open doors to students of color.



Dr. Asamoah Nkwanta, Chair of the Math Department at Morgan State University, gives the Welcome Speech

During the three-day event, students, professors, and guests alike were exposed to resources and information in the field of Mathematics. The audience was captivated by the topics presented by the students in various areas of mathematics, such

as graph theory, parking functions, modeling, simplification theory, and more. A total of 9 oral presentations as well as many poster presentations were given during this event.



Faces of MATHFest: Dr. Johnny Houston and Dr. Donald Cole share a moment

Below is a full list with the names of the presenters and the title of their presentation.

### Student Oral Presentations:

- **Quindel Jones (Virginia Commonwealth University)** *An ODE model for predicting pediatric patient pain in SCD based on patient sleep data*
- **Ryan Knight (St. Mary's College of Maryland)** *Detecting Local Moves With Knot Invariants*
- **Winter Jones (Spelman College)** *A Choice to Build a Rocket: An Experiment with Paraffins*



- **Alexis Guevara and Amelia Threatt (Occidental College)** *Numerical Investigations of Nonlinear First Order Ordinary Differential Equations*
- **Kelsi Anderson (St. Mary's College of Maryland)** *The Safety Net Problem*
- **Janiah Kyle (Spelman College)** *Malaria Early Warning System*
- **Salvador Ochoa Zavalza (Sonoma State University)** *The Kalman Filter With Exponential Weighting & the Maximum Likelihood Estimation on Time Scales*
- **Tiffani Clark (University of Louisiana at Lafayette), Sophia Fogle (Centre College) and Kimani Daley (St. Mary's College of Maryland)** *Modeling Oysters Populations for Improving Restoration Efforts in the Chesapeake Bay*
- **Kimberly Hadaway (Iowa State University)** *Enumerating Unit Interval Parking Functions*
- **Dissandou Becolli (Phillips Exeter Academy)** *The Evolution of Trust*
- **Serina Cabrera (Sonoma State University)** *SEAIRV Model for COVID-19 for Sonoma State University*



Student Presentations

Student Poster Presentations:

- **Hunter Shepard (Southern University and A&M College)** *Characteristics of Orthogonal Projection to Global Positioning System (GPS)*
- **Amber C Hickman (Southern University and A&M College)** *Louisiana Standardized Test Scores and its Effects on Education Attainment for Minority Learners*
- **Brandon Causing (University of Florida)** *Pandemic vs. Epidemic: A Statistical and Spatial Analysis of the Relationship Between HIV and Socioeconomic Indicators With Respect to COVID-19*
- **Dirk Antony Tolson III (Sonoma State University)** *Red-tide Foam Analysis at the Santa Cruz Wharf in Monterey Bay, California*

During the first day, Dr. Omayra Ortega, the current President of NAM, and Dr. Asamoah Nkwanta, Chairperson from Morgan State University, gave welcoming speeches and encouraged students to form connections, learn and have fun. Soon after the welcoming ceremony, a special section was held to memorialize Dr. Abdul-Aziz Yakubu, a respected and valuable member of the mathematical and NAM community who contributed to mathematical biology and researched prevention and control of infectious diseases. After a break, two student oral presentations were given. The first day ended with the traditional J. Ernest Wilkins Lecture and Dinner section was held, where Professor Akil Parker from All This Math, LLC., emphasized the need of mathematical representation and the power we all have through his motivating speech titled HBCU Students as Math Ambassadors to the Black Community. Dr. Parker was given the NAM's Award of Appreciation.



The 2022 Ernest J Wilkins speaker, Akil Parker with President Ortega



“Most Outstanding Oral Presentation” Winning Group (Right); SMCM Article by Lee Capristo

On the second day, student presenters finalized sharing their work and answering questions from the audience, and awards were given to outstanding presentations during the Awards Ceremony. The group conformed by Tiffani Clark (University of Louisiana at Lafayette), Sophia Fogle (Centre College) and Kimani Daley (St. Mary’s College of Maryland) won “Most Outstanding Oral Presentation” award for their talk on Modeling Oysters Populations, while Brandon Causing (University of Florida) was awarded the “Best Poster Award” for his presentation on statistical and spatial analysis over HIV and socioeconomic indicators with respect to COVID-19. Nonetheless, all participants did an

amazing job in their presentations and gained experience that will help them in their future academic/professional careers.



Kimberly Hadaway & Dirk Tolson, Student Presenters

In addition to the presentations, undergraduate students attended a graduate fair and participated in an insightful panel where graduate students shared their experience as minorities in the mathematical field. Undergraduate students were also given the chance to have fun and win modest cash prizes by solving mathematical problems in the thrilling *Problem Time* section hosted by Dr. Duane Cooper from Morehouse College.



Problem Time Section



On the final day of the event, undergraduate students participated in the second section of *Problem Time* and had the opportunity to network with faculty and other students once more before the awards ceremony for the *Problem Time* section, and the closing remarks.



Graduate & Career Fair



Faces of MATHFest: Dr. Kim Sellers



Faces of MATHFest: Dr. Dennis Davenport



Faces of MATHFest: Dr. Talitha Washington

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*NAM greatly appreciates Morgan State University, The Simons Foundation, and The American Mathematical Society (AMS) for their support of NAM MATHFest XXXII. Please visit [www.nam-math.org](http://www.nam-math.org) to learn about the other annual programs and meetings that NAM sponsors.*

## Nicole Joseph to receive the Louise Hay Award for Contributions to Mathematics Education

*AWM Press Release*

*This article first appeared in the AWM Press Release on October 15th, 2022, and later appeared online in the Association for Women in Mathematics website <https://awm-math.org/2023-louise-hay-award/> on October 18th, 2022. This article is being reprinted with the permission of the author.*



Photo courtesy of Quentin Cox Photography

The Association for Women in Mathematics is pleased to announce the 2023 Louise Hay Award to Nicole Joseph, Associate Professor of Mathematics Education at Vanderbilt University. Joseph is being honored for contributions to mathematics education that reflect the values of taking risks and nurturing students' academic talent that are central to Louise Hay's legacy.

### Citation

Professor Nicole Joseph's research is centered on the experiences and narratives of Black girls and women in STEM. Through an impressive record of publications, in journals such as *Teachers College Record*, *Journal for Research in Mathematics Education* and the *Review of Educational Research*, and a vast number of keynote addresses and invited talks, to national organizations and societies such as the Mathematical Sciences Research Institute (MSRI), and the Clemson University Women in Mathematics Lecture Series, Joseph has elevated the importance of this topic and widened the field's understanding of the complex and intersectional nature of educational inequity, opportunity and access. As one of her recommenders stated, Joseph's research exhibits, "scholarship in action." In other words, Joseph both investigates hard and retracted questions while doing the work necessary to undo these patterns. Joseph is the founder of an interdisciplinary research collective at Vanderbilt titled "Intersectional Study of Black Women and Girls in Society." This collective was supported by a \$200K internal award and centers Black women's and girls' experiences to interrogate as well as dismantle structural barriers across different sectors of society, including STEM educational contexts. Within this research collective, Joseph organized the March for





Black Women in STEM, a space for multiracial and intergenerational solidarity to increase the visibility of racial-gendered oppression and agency among Black women in STEM.

Joseph founded the Joseph Mathematics Education Lab (JMEL). A brain child of Joseph, the Lab meets weekly to support academic and scholarly endeavors as well as the overall wellbeing of Black girls and women in the field of mathematics. The Lab includes 15 scholars across the undergraduate, graduate, doctoral and postdoctoral trajectories emanating from institutions across the nation. Under her leadership, mentorship and service, members of the lab have themselves applied for and received grants and published their research alongside Joseph. JMEL is an innovative initiative that resists Black women's limited access to research leadership in mathematics and to their silenced voices in the academy.

Joseph pushes on boundaries, seeking to enlighten the field's understanding and responsiveness to an ever-pressing challenge of understanding and improving the opportunities for Black girls and women in mathematics. Joseph's work exemplifies the goals and priorities of the Hay Award.

### **Response from Nicole Joseph**

I am deeply honored to join the list of distinguished awardees, including Dr. Virigina Warfield from the University of Washington, who was on my dissertation committee. Throughout my career I

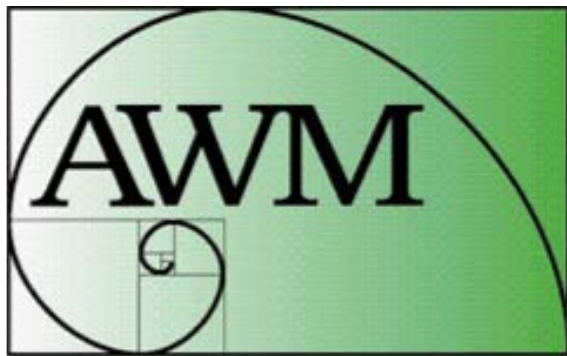
have aimed to carry out similar commitments as Louise Hay, specifically related to mentorship, advocacy, and leadership. I started this journey as a young Black girl who found herself in advanced mathematics courses in middle and high school alone...no one else looked like me...and that was a problem. I was young and did not have the words, but I knew as a young person that it was not right to not have other students in mathematics that looked like me.

I am a Black girl cartographer in the field of mathematics education; this means that I care about the wellbeing, outcomes, and learning experiences of Black girls and women. Through my scholarship, teaching, and service, my goal is to elevate Black women and girls and their stories of mathematics learning because they are worth telling. Few mathematics education researchers focus on the intersectional experiences of Black girls and women—their identities are multiplicative and complex—how they show up in mathematics contexts is different and unique from Black boys and White girls. It is important to me to close the gap between theory and practice...I want to impact real students and their families. There is so much still to do to support Black girls and women in mathematics. We need more research—both critical quantitative and qualitative studies to better understand their experiences. I include more examples of what mathematics instructors can do to better support Black women and girls in mathematics in my new book, published by Harvard University Press, *Making Black Girls Count* in

Math: A Black Feminist Vision of Transformative Teaching.

<https://www.hepg.org/hep-home/books/making-black-girls-count-in-math-education>.

It gives me hope that the AMW committee recognized my work in this important way. I am grateful to the selection committee and the AWM for this tremendous honor.



Association for Women in Mathematics

Established in 1991, the **Hay Award** recognizes outstanding achievements in any area of mathematics education. Louise Hay was widely recognized for her contributions to mathematical logic, for her strong leadership as Head of the Department of Mathematics, Statistics, and Computer Science at the University of Illinois at Chicago, for her devotion to students, and for her lifelong commitment to nurturing the talent of young women and men. The annual presentation of this award is intended to highlight the importance of mathematics education and to evoke the memory of all that Hay exemplified as a teacher, scholar, administrator, and human being. It will be presented at the The Joint Mathematics Meetings, scheduled for January 4-7, 2023 in Boston, MA. □

## New STEM Master's Degree Program for Black Scholars Seeks Faculty

*Wade Institute of Technology*

Nearly a century ago, Albert Frank Cox was the first Black man to receive a Ph.D. in mathematics. He wasn't just the first Black man in the U.S. to accomplish this—he was the first in the world.

In the 97 years since, we would expect significant progress related to equity in the halls of higher education. Yet the sobering reality is that, despite the growing demand in these fields, Black scholars comprise only seven percent of those receiving undergraduate degrees in STEM disciplines and only nine percent of those receiving STEM grad-

uate degrees.

We know the issue isn't one of capability. It's about developing an adequate pipeline to ensure accurate representation in both the educational and professional endeavors of Black STEM professionals. There's a marked gap between the interest of young Black students in primary and secondary education and their presence in the higher reaches of scholarly pursuit.

Wade Institute of Technology (WIT), a new Palo Alto-based college with a focus on mitigating the acute underrepresenta-



tion of African Americans and students of African descent in the STEM ecosystem, was founded to bridge that gap. Now WIT is looking for faculty to help build that pipeline and better reflect the intellectual curiosity, diversity, and innovation potential of our country's demographics.

Having already launched two successful cycles of graduate scholarship opportunities for Black scholars, WIT is now focusing on building an integrated master's degree program in engineering. Embracing a vision of Engineering for Everyone, WIT seeks an initial cohort of three faculty and ten students for September 2022.

The experience begins with a Design Year; a collaborative effort between faculty and students to develop a 24-month student-centric experiential curriculum for the subsequent academic years. The program itself will provide a broad, nonspecialized engineering education where students gain background in core areas such as materials, chemical, mechanical, electrical disciplines, project management, and leadership.

The goal isn't to develop expert technologists, it's to equip generalists to communicate with the experts. To facilitate this rich exchange of ideas and experiences, WIT is recruiting students with STEM undergraduate degrees as well as those with undergraduate degrees in the humanities. You can learn more about the program format here.

Are you interested in serving as an architect for this new way of learning? Are you looking to teach, coach, mentor and pro-

vide wrap-around support to WIT's unique students? Are you eager to thrive in a challenging, integrated environment? Are you interested in building the pipeline of the next generation of STEM leaders and inspiring them to pursue academic and professional excellence as tomorrow's pioneers?

- Full-time positions are for one academic year but most likely will continue thereafter.
- Salary range is 63,444–110,839, based upon a variety of factors including, but not limited to, education, experience, specialty, and training.
- Faculty have the opportunity to lead curriculum development, instruction, assessment, and planning while collaborating with staff, students, employers, and university contacts to ensure the curriculum is aligned with requirements for future accreditation.
- **To apply, send cover letter, CV, and two references with contact data to Lorna Jones, Director Academic Development: [ljones@wit.university](mailto:ljones@wit.university).**



□



# EvenQuads: Honoring the Achievements of Women in Mathematics

*by the AWM EvenQuads Committee*

The National Association of Mathematicians (NAM) is one of the four mathematical associations celebrated in the Association for Women in Mathematics (AWM)'s EvenQuads project. The decks also highlight the Mathematical Association for America (MAA) and Women and Mathematics Education (WME). EvenQuads was created to commemorate the 50th anniversary of the AWM: one side of each card features logos inspired from the associations, and the other side features a short biography and hand-drawn portrait of an amazing women mathematician. The card decks bring into prominence the stories of these women, and particularly stories of mathematicians from historically minoritized populations. In fact, at least 42% of the 128 women featured on Deck 1 and Deck 2 are from underrepresented groups. Deck 1 (featuring 12 Black women) was released in 2021 and Deck 2 (featuring 10 more Black women) is coming soon.



For example, on EvenQuads Deck 1 we have women surely known to NAM members:

- The “human computer” Dorothy Hoover was one of the first six Black women mathematicians hired by Langley Research Labs. She went on to co-author a book on computational physics and publish various reports and papers.
- Gloria Conyers Hewitt (now retired) was the fifth Black woman to get a PhD in math and the first Black woman to chair a math department in the US (University of Montana). She was also a visiting lecturer for the MAA, and served on its Board of Governors.
- Sylvia T. Bozeman co-founded the Enhancing Diversity in Graduate Education (EDGE) Program (1998) to support women moving through graduate school in mathematics. She was also the first Black American elected as an MAA Section Governor.

Visible role models like Dorothy Hoover, Gloria Conyers Hewitt, and Sylvia Bozeman are important to serve as reminders to minority women that they belong in mathematics (and other STEM fields). It is also important that the decks highlight



the achievements of women from around the globe, including Africa. Because EvenQuads is appropriate for ages 10 and up, we hope that the deck and its mathematical games help inspire the next generation of women mathematicians. There are far more than 128 women who merit featuring on cards, so there are two more decks planned. The EvenQuads project welcomes more nominations of women for consideration! (Use this form.)

Deck 1 of EvenQuads will be restocked

soon at the AWM e-store and is currently available from The Game Crafter, and Deck 2 is coming soon to both vendors. See images and biographies of all women featured on Deck 1, teaser images/bios for Deck 2, and learn more about the project at <https://awm-math.org/publications/playing-cards/>

*The AWM Even Quads Committee can be reached through sarah-marie belcastro at [smbelcas@toroidalsnark.net](mailto:smbelcas@toroidalsnark.net) □*

## National Math Survey Announcement

*by Tim McEldowney*



The National Science Foundation Division of Equity for Excellence in STEM supports and promotes activities that seek to strengthen STEM education for underserved communities, broaden their participation in the workforce, and add to our knowledge base about programs of inclusion. The Undergraduate Knowledge of the Mathematics Graduate School Application Process project is funded by this division (Knowledge-GAP, NSF Award # 2126018) and aims to illuminate how undergraduate student knowledge about the graduate school application and admissions processes acts as a barrier to earning ad-

vanced degrees in mathematics for students historically underrepresented in STEM disciplines. The Knowledge-GAP survey will ask mathematics majors about their knowledge of and interest in applying to graduate school in mathematics.

Thank you for your time and help with this transformative mathematics education research project.

*Principal Investigator **Tim McEldowney** is inviting undergraduate mathematics majors (ideally in their 3rd or 4th year) to complete a survey. If you are an undergraduate who is interested or a faculty member who could share the survey with your students, please contact Tim directly at [tim.mceldowney@mail.wvu.edu](mailto:tim.mceldowney@mail.wvu.edu).*

□

## NAM Members Recognized as Fellows of the AMS

*by Salvador Ochoa Zavalza*

We are proud to announce that two of our NAM members, Dr. Abba B. Gumel and Dr. Ryan Hynd, were recently appointed as fellows of the American Mathematical Society (AMS) Class of 2023.



**Dr. Abba Gumel** is a Professor of Mathematics at the Department of Mathematics, University of Maryland, College Park and formerly served on the NAM Newsletter Editorial Board for many years. He earned his Bachelors of Science in Mathematics Honours from the Bayero University in Nigeria and later obtained his Ph.D. in Mathematics from Brunel University London in the United Kingdom. Dr. Gumel has impacted mathematical research across the globe as he has worked in Malaysia, Canada, and now the United States. Dr. Gumel is invested in researching novel models for the transmission dynamics and control of emerging and re-emerging infectious diseases.

His recent mention in the Class of 2023 Fellows of the AMS was no surprise given the years of work Dr. Gumel has dedicated to expanding the mathematical knowledge in epidemics and other areas that are of public health significance. The Fellows of the American Mathematical Society program recognizes members who have made outstanding contributions to the creation, exposition, advancement, communication, and utilization of mathematics. The recognition from the AMS stated in their webpage “For contributions to the mathematical theory of epidemics, applied dynamical systems, and promoting the use of mathematics to help solve global public health challenges”, which speaks to the talents of Dr. Gumel.



**Dr. Ryan Hynd** is an Associate Professor in the Mathematics Department at the University of Pennsylvania. He earned his Bachelor of Science in Applied Math-





ematics from Georgia Institute of Technology after transferring from Palm Beach Community College. Dr. Hynd later attended the University of California, Berkeley, where he earned his Ph.D. in Mathematics. Soon after Dr. Hynd completed a postdoctoral fellowship at NYU's Courant Institute, and joined the mathematics department at the University of Pennsylvania in 2012.

Currently, Dr. Hynd is an active member of multiple mathematical societies, and expresses his desire to encourage students and help students in underrepresented groups. Dr Hynd's research focuses primarily in PDE's (SIR modeling, sticky particle dynamics), but also has done work in the areas of control theory, analysis, and calculus of variations. Dr. Hynd will give the NAM Claytor-Woodard Lecturer at the 2023 Joint Mathematics Meetings in Boston, MA.

Early in 2022, Dr. Hynd was recognized as a Claytor-Gilmer Fellowship recipient for the AMS for his achievements and contribution potential to mathematics, and his announcement in the AMS Class of 2023 fellows, goes to show the dedication that Dr. Hynd puts into his work. In the same AMS webpage, it states "For contributions to partial differential equations and their

application to Sobolev inequalities, control theory, and adhesion dynamics", which is a summary of amazing work completed by Dr. Hynd in his career.

Some of the goals of the AMS Fellows program are to honor the extraordinary and the excellent, and support advancement in of more mathematicians in leadership positions in their own institutions and in the broader society. Both Dr. Gumel and Dr. Hynd have demonstrated their commitment to society and the new generation of mathematicians with their leadership throughout the years, service, and participation participation in multiple mathematical affiliations—including NAM.

Let us congratulate Drs. Abba B. Gumel & Ryan Hynd!

*For questions about the **AMS Fellows** program, please contact the AMS programs department via phone at +1(800)321-4267, ext 4124 or visit the AMS Fellows webpage <https://www.ams.org/profession/ams-fellows/ams-fellows>.*

**Salvador Ochoa Zavalza** is the NAM Newsletter Student Editor Intern and a senior mathematics major at Sonoma State University. He can be reached at [ochoazavas@sonoma.edu](mailto:ochoazavas@sonoma.edu) □



## Legacy Notice Abdul-Aziz Yakubu (1960 circa – 2022)

*Johnny L. Houston, PhD, Chair of NAM Historical and Archival Committee (HAC)*



**Abdul-Aziz Yakubu**, an Internationally recognized mathematician, scholar, and educator who made significant contributions to the continued development and growth of Howard University PhD Program in Mathematics which was the first (1976) PhD Program in Mathematics established and accredited at a Historically Black College/University (HBCU). He was born in Ghana. He passed in Washington, DC on August 14, 2022 where he was employed as Professor of mathematics at Howard. He joined Howard's faculty in 1990 (1990-95, Assistant Professor; 1995-99, Associate Professor; 1999, Professor). He served as Chair of the Department from 2004-2014. In 1982, he received a BS degree (Honors) in Mathematics and Computer Science from the University of Ghana, Legon; in 1985, he received a MS degree in Mathematics from the University of Toledo; and in 1990, he received a PhD in Mathematics from NC State University (thesis: Global

Stability, Bifurcations, and Chaos in Discrete Competitive Systems; advisor, John E. Franke).

Dr. Yakubu was a leading researcher and expert in mathematical biology. His specific research interests were in mathematical applications to the biological sciences with global applications that include the prevention and control of the spread of infectious diseases, and the sustainability of exploited fisheries. His numerous research publications (over 85) include papers on analysis and applied dynamical systems. He lectured widely on his research in North America, Africa, Asia, and Europe. Dr. Yakubu has held over ten visiting positions, including at Cornell U, NC State U, the Ohio St. U, and Botswana International U of Science and Technology. He has served several professional mathematics organizations (over 10) at various levels, including, the Chair of the World Outreach Committee of the Society for Mathematical Biology from 2007-2016. Dr. Yakubu has directed 7 PhD dissertations to successful completion (all his students belong to underrepresented minority groups). He was a strong proponent of diversity, equity, and inclusion in the mathematical sciences in all activities and the inclusion of institutional engagement of Historically Black Colleges and Universities (HBCUs) in such initiatives at the regional, national and international levels.



From 2000–2006, Dr. Yakubu directed and taught in REU projects at Cornell, Los Alamos National Laboratory, at Ohio State U, at Duke U, and Howard where he initiated the biannual Mathematical Modeling in Biology and Medicine Workshop Series. He mentored and taught students at the BS and MS level as well. He wrote grants (over 10); refereed for over 12 Journals; and he served on over 10 Editorial and Advisory Boards. His many Honors and Awards include: Mathematically Gifted and Black Honoree (2020), Howard University Office of the Provost and Chief Academic Officer Pilot Program for the Faculty Incentive Program Award (2016), National Institute for Mathematical and Biological Synthesis Postdoctoral Fellows Invited Distinguished Visitor, Member of Advisory Board of SIAM Activity Group on Mathematics of Planet Earth (2015-2022). Chair of World Outreach Committee of Society for Mathematical Biology (2007-2022), and the Invited Speaker for NAM Claytor-Woodard Address (2010).

Dr. Yakubu was very active with the American Mathematical Society (AMS), Mathematical Association of America (MAA), National Association of Mathematicians (NAM), Society for Mathematical Biology (SMB), and the Society of Industrial and Applied Mathematics (SIAM). His many areas of research also included Dynamical Systems and Mathematical Biology with applications to Theoretical and Computational Epidemiology, Ecology and Evolutionary Biology, and Demography.

His passing is a great loss to Howard University, and to the mathematical sciences community, both National and International. It was the author's honor to have had the privileges to personally know him.

*Johnny L. Houston, PhD is a Professor Emeritus at Elizabeth City St. University and is the Chair of the NAM Historical and Archival Committee (HAC). He is also a Co-Founder of NAM; and served as the NAM Executive Secretary (1975-2000). He can be reached via email at [jl-houston602@gmail.com](mailto:jl-houston602@gmail.com)* □

## AMS Workshop for Department Chairs and Leaders

**Tuesday, January 3, 2023**  
**9:00 AM–3:00 PM, ET**  
**Boston Sheraton, Boston, MA**

Chairpersons from all types of departments and institutions, chairs-to-be, graduate and undergraduate directors, and non-titular leaders are warmly invited to participate in the annual AMS Workshop for Chairs and Leaders. This workshop provides opportunities for participants to share ideas and experiences and to foster the development of a community of peers who can continue to provide one another support in the vital role of department chair.

For more details and to register, see the Department Chairs Workshop web page: <https://www.ams.org/profession/leaders/workshops/chairsworkshop>





## The Karen EDGE Fellowship Program

*Ami Radunskaya, EDGE Foundation President*

For the fourth year, the EDGE Foundation is offering a fellowship established by 2019 Abel Prize winner, Karen Uhlenbeck, recognized for “her pioneering achievements in geometric partial differential equations, gauge theory, and integrable systems, and for the fundamental impact of her work on analysis, geometry and mathematical physics.” Her generous gift has been used to establish The Karen EDGE Fellowship Program. Fellowships are available to mid-career mathematicians employed in full-time positions in the U.S. Applicants must be U.S. citizens or permanent residents with a Ph.D. or equivalent who are members of an underrepresented minority group. Mathematicians of any gender identity are eligible. Eligible NAM members are encouraged to apply and to spread the word about this unique and exciting opportunity. In 2023, one Fellowship will be awarded.

The EDGE Program, founded in 1998, is administered by the Sylvia Bozeman and Rhonda Hughes EDGE Foundation, with the goal of strengthening the ability of women students to successfully complete Ph.D. programs in the mathematical sciences and place more women in visible leadership roles in the mathematics community. As of 2022, there have been over 300 participants in the EDGE Program and 126 Ph.D.s earned. The Karen EDGE Fellowship is an exciting newer program adminis-

tered by the EDGE Foundation.

The award consists of \$8,000 per year for three years including funds to support one trip to the Institute for Advanced Study in Princeton (travel only; the Institute will provide local expenses) to meet Karen and members of the community. Valid expenses include travel by the Fellow, the Fellow’s graduate students, or the Fellow’s collaborators for the purpose of advancing the proposed research project, scientific computing, supplies, books, and professional memberships. Teaching buyouts or salary supplements are not permitted. An annual progress report and financial statement are expected annually within two months of the end of each academic year.

The application consists of a personal statement (1 page); a research description (2 pages, not including references); curriculum vitae (2 pages); a three-year plan for use of the Fellowship (1 page); a budget outline (1 page, including travel to Princeton, NJ); and current and pending funding support.

Applications will be submitted to <https://www.mathprograms.org/db/programs/1359> and are due by **February 15, 2023**. *One awardee* will be announced in May, 2023.

*For further information about the **EDGE Program** please visit [www.edgeforwomen.org](http://www.edgeforwomen.org)* □



## Job Openings

### Amherst College – Department of Mathematics and Statistics

The Amherst College Department of Mathematics and Statistics invites applications for a full-time position as lecturer in mathematics, with the appointment to begin on July 1, 2023. We seek candidates who are passionate about teaching and skilled at guiding students through early encounters with college-level mathematics. The department and college are committed to increasing the diversity of our faculty and to helping all members of our community thrive. For example, nearly one-quarter of Amherst's students are Pell Grant recipients, 45 percent identify as domestic students of color, 9 percent are international students, and 13 percent are first-generation college students. Our expectation is that the successful candidate will excel at teaching and mentoring students who are broadly diverse with regard to race, ethnicity, socioeconomic status, gender, nationality, sexual identity, disability, and religion. We strongly encourage potential candidates from underrepresented and/or historically excluded groups to apply. The main responsibilities of this position are to teach the equivalent of three courses per semester. Other duties will depend on the interests and experience of the successful candidate. We are interested in candidates with experience and expertise in teaching calculus to students who enter college less well prepared than their peers. It is likely that a majority of the successful candidate's teaching will be focused on courses aimed at such students, and we welcome applicants who could bring new insights and/or pedagogy to the department's current course offerings. Our department has a successful record of mentoring students in those courses, many of whom complete the mathematics major.

Applicants are required to have a Ph.D. in mathematics or a related field, or to complete all requirements for that degree before the start of the appointment. They should demonstrate interest and excellence in undergraduate teaching and a commitment to classroom equity and an anti-racist educational environment.

To apply, please submit a cover letter, a curriculum vitae, and a teaching statement, and arrange for three letters of recommendation (of which at least two describe in detail the candidate's teaching experience) to be submitted to Mathjobs.org. Applications which contain explicit evidence of excellent teaching are more likely to be successful. Applications will be accepted until the position is filled, but all applications received by January 15, 2023, will be guaranteed consideration.

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## University of Pennsylvania (Penn) – Department of Mathematics

The Department of Mathematics invites applications for one tenure-track Assistant Professor position. We are especially looking for mathematicians working on Mathematical Physics or Geometry-Topology. Responsibilities include teaching undergraduate and graduate courses in Mathematics and conducting research in the field. Ph.D. in Mathematics or closely related field is required by the time of appointment. Applications should be submitted online through Interfolio (<http://apply.interfolio.com/112782>) and include the following items: cover letter, curriculum vitae, research statement, teaching statement, a publication list, and at least 3 reference letters from mathematicians familiar with your work (one of these should comment on your teaching ability).

Review of applications will begin October 15, 2022 and will continue until the position is filled. It is anticipated that the position will start July 1, 2023.

The Department of Mathematics is strongly committed to Penn's Action Plan for Faculty Diversity and Excellence (see <http://www.upenn.edu/almanac/volumes/v58/n02/diversityplan.html>) and to building an intellectually vibrant community of scholars, students, and staff that reflects the diversity of the world we live in. We seek to create working and learning environments that are affirming, equitable, and inclusive. We welcome applications from scholars of diverse backgrounds and those historically under-represented in the academy. The University of Pennsylvania is an equal opportunity employer. Minorities/Women/Individuals with disabilities/Protected Veterans are encouraged to apply.

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## The University of Tennessee, Knoxville – Mathematics Department

The Mathematics Department at The University of Tennessee, Knoxville seeks exceptional candidates to fill three Tenure-Track, Assistant Professor positions, starting August 1, 2023.

For more information and to apply, please see the linked positions on Interfolio:

- Assistant Professor, in the area of Math Biology
- Assistant Professor, in the area of Probability
- Assistant Professor, in the area of Topology

The University of Tennessee encourages applications from candidates who have the ability to contribute in meaningful ways to the diversity and intercultural goals of the University.





## Ohio State University – Department of Mathematics

The Department of Mathematics at Ohio State University announces an opening for a tenure-track faculty hire in mathematics education. The appointment is effective Autumn 2023 and the rank is at the Assistant Professor level. This hire is part of an Ohio State “RAISE” initiative cluster of three scholars who will be hired in the Departments of Chemistry and Biochemistry, Mathematics, and Physics, with one hire in each Department. We envision a candidate interested in developing a world-class program in discipline-based education research and in joining other scholars to coordinate efforts at Ohio State to study issues relevant to educational equity across STEM fields, with a special focus on race and other factors identifying historically marginalized groups.

For more details, and to apply for the position, candidates are invited to visit our MathJobs posting at <https://mathjobs.org/jobs/list/20532>.

*The Ohio State University is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation or identity, national origin, disability status, or protected veteran status.*

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## Ohio State University – Department of Mathematics

The Department of Mathematics in the College of Arts and Sciences at The Ohio State University seeks applications to fill multiple tenure-track faculty positions at the rank of Assistant Professor. While candidates in all research areas will be considered, the department is particularly interested in applicants working in analysis, actuarial and financial mathematics, applied mathematics, discrete mathematics, geometry and topology, or quantum mathematics. It is expected that this faculty member will be significantly engaged with the graduate and undergraduate programs in the Mathematics Department (e.g. directing PhD, Master’s theses, and/or directing undergraduate research).

For more details, and to apply for the position, candidates are invited to visit our MathJobs posting at <https://mathjobs.org/jobs/list/20533>.

*The Ohio State University is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation or identity, national origin, disability status, or protected veteran status.*

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## Georgia Institute of Technology – School of Mathematics

The School of Mathematics at the Georgia Institute of Technology invites applications for at least one Academic Professional position, with anticipated start date in early to mid 2023. These positions are non-tenure-track 12-month faculty appointments, subject to annual evaluation. Duties include teaching each semester along with administrative support of our programs. One or more years of experience in a university environment and a Ph.D. in mathematics or a related field is required. Georgia Tech provides equal opportunity to all members of the Georgia Tech community, including applicants. For a complete position description and application, please visit <https://www.mathjobs.org/jobs/list/20921>.

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## Syracuse University – Department of Mathematics

The Department of Mathematics at Syracuse University invites applications for a non-tenure-track full-time position at the rank of Assistant Teaching Professor beginning in the Fall semester 2023. The initial appointment can be up to three years. The position includes teaching 8 course sections per year across multiple courses in statistics at the introductory, intermediate, or advanced levels. A Ph.D. in mathematics or statistics is required. Candidates should have a strong track record in teaching statistics to undergraduates. The department also seeks candidates who value Syracuse University's commitment to diversity and inclusion. See <http://thecollege.syr.edu/mathematics> for more information.

For application, please visit <https://www.sujobopps.com/postings/95793>.

Syracuse University is an equal-opportunity, affirmative-action institution.

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## California State University San Marcos (CSUSM) – Dept of Mathematics

The Department of Mathematics at California State University San Marcos (CSUSM) invites applications for a tenure-track position at the rank of Assistant Professor of Mathematics to begin Fall 2023. We seek candidates with the potential to engage in a robust research agenda in mathematics in the fields of statistics/data science or applied probability or optimization or numerical linear algebra. However, outstanding candidates in closely related fields will be considered. For complete job description and application, go to <https://www.mathjobs.org/jobs/list/21464>.



## University of Maryland, Baltimore County (UMBC) – Department of Mathematics

The University of Maryland, Baltimore County (UMBC) seeks applications and nominations to the position of inaugural Sinha Endowed Chair in the Department of Mathematics and Statistics to begin in Fall 2023. The position is made possible by an endowment by the family of Professor Bimal K. Sinha, the founder of the Statistics Program at UMBC and a matching grant from the Maryland E-nnovation Initiative Fund (MEIF), administered by the Maryland Department of Commerce. Announcement of this \$1.8 million endowment can be found at <https://umbc.edu/stories/umbc-receives-900k-from-maryland-e-nnovation-initiative-fund-to-endow-sinha-e-nnovate-chair-in-statistics/>

We are looking for a senior scholar in any field of statistics in order to take over the leadership of our thriving Statistics program. The applicant should have an outstanding record of research, teaching and professional service, and a proven record of obtaining external funding, with a demonstrated commitment to the diversity and excellence of the department in teaching, mentoring, and service. The tenured appointment will be at least at the level of associate professor, commensurate with experience.

The Department offers BS, MS, and PhD degrees in applied mathematics and in statistics. For more information, visit our web site <https://mathstat.umbc.edu>. The departmental culture encourages research collaboration, with a strong emphasis to involve undergraduate, as well as graduate students, in the research activities. The department's PhD program also has a biostatistics track, in partnership with University of Maryland's School of Medicine and Greenbaum Cancer Center. At present there are nearly 100 undergraduate majors, more than 30 graduate students and 10 full time faculty members in Statistics. Since the inception of the program in 1985, we have graduated nearly 100 PhD students.

We welcome letters of interest or nominations which would include a cover letter, CV, and names of three distinguished references. A complete application should also include a summary of current research program, teaching statement, a vision and plan for the enhancement of the Statistics program at UMBC, and a statement of commitment to inclusive excellence in higher education. The inclusive excellence statement should include an explanation of the candidate's commitment and demonstrated or potential ability to contribute to diversity, inclusion, and equity in teaching, mentoring, recruiting, and departmental climate. All application materials should be submitted at <http://apply.interfolio.com/115291>. Application received by January 15, 2023 will be given full consideration. However, applications will be accepted until the position is filled.



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## Brandeis University – Department of Mathematics

BRANDEIS UNIVERSITY Department of Mathematics invites applications for a **tenure-track position in applied mathematics at the rank of assistant professor beginning fall 2023**. Candidates must have a PhD in mathematics or a related field, demonstrate potential for excellence in research, display a commitment to teaching and engage in promoting diversity. All areas of applied mathematics will be considered; applications from under-represented groups are strongly encouraged. This position is subject to budgetary approval.

Applications should be submitted through [Mathjobs.org/jobs](https://mathjobs.org/jobs). First consideration will be given to applications received by November 1, 2022.

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## Brandeis University – Department of Mathematics

BRANDEIS UNIVERSITY Department of Mathematics invites applications for **two three-year postdoctoral positions beginning fall 2023**, subject to budgetary approval. The teaching commitment is three semester courses per year. Candidates must have a PhD, demonstrate potential for excellence in research, and display a commitment to undergraduate and graduate teaching and engage in promoting diversity. Candidates in all areas of pure and applied mathematics will be considered; applications from under-represented groups are strongly encouraged.

Applications should be submitted through [Mathjobs.org/jobs](https://mathjobs.org/jobs). First consideration will be given to applications received by December 1, 2022.

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## Brandeis University – Department of Mathematics

BRANDEIS UNIVERSITY Department of Mathematics invites applications for **multiple tenure-track positions in mathematics at the rank of assistant professor beginning fall 2023**. Candidates must have a PhD in mathematics or a related field, demonstrate potential for excellence in research, and display a commitment to teaching and engage in promoting diversity. All research areas of pure mathematics will be considered; applications from under-represented groups are strongly encouraged. This position is subject to budgetary approval.

Applications should be submitted through [Mathjobs.org/jobs](https://mathjobs.org/jobs). First consideration will be given to applications received by November 1, 2022.



## **Georgetown University – Department of Mathematics and Statistics**

The Department of Mathematics and Statistics at Georgetown University (<https://mathstat.georgetown.edu/>) invites applications for a tenure-track assistant professor position in applied mathematics to begin in August 2023. Candidates working in the areas of applied harmonic analysis, PDE-constrained optimization, and control theory are encouraged to apply. The application deadline is January 1, 2023. Please refer to the full job description and submit the required application materials at <https://apply.interfolio.com/114944>

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## **Georgetown University – Department of Mathematics and Statistics**

The Department of Mathematics and Statistics at Georgetown University (<https://mathstat.georgetown.edu/>) invites applications for the position of Assistant Teaching Professor to begin on August 1, 2023. This is a full-time non-tenure track position with a three-year renewable contract. The application deadline is January 31, 2023. Please refer to the full job description and submit the required application materials at <https://apply.interfolio.com/116114>

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## **Austin Peay State University – Department of Mathematics and Statistics**

The Department of Mathematics and Statistics at Austin Peay State University invites applications for a tenure-track position in Mathematical Finance beginning Fall 2023. This position is at the rank of Assistant or Associate Professor depending on credentials and experience. Responsibilities include conducting research and teaching mathematical finance, statistics, actuarial science, and data science courses at the undergraduate and graduate levels. Please apply at: <https://apsu.peopleadmin.com/postings/14900>

## The University of Alabama – Department of Mathematics

The University of Alabama seeks an outstanding individual at the rank of Full Professor for the position of Chair of the Department of Mathematics. Associate Professors who will have the qualifications to be promoted to Full Professor at the time of appointment are also welcome to apply. The successful candidate will

- possess a national/international reputation, with an active research program and a track record of external funding;
- have an outstanding record of teaching at the undergraduate and graduate levels; and
- have the vision and proven leadership abilities to advance the department within an R1 designated university.

They should have an understanding and enthusiasm for both the teaching and research missions of the department and preferably have administrative experience. The department values collective decision making and transparency in administrative processes and expects the future chair to respect and continue these norms. The applicant's area of expertise should complement one or more of active research programs in the department. Applicants should check the full description about the job and the department at <https://facultyjobs.ua.edu/postings/51243>, and follow the instructions to apply. A complete application should include a letter of application; a curriculum vita; a statement of administrative and leadership experience and philosophy; a statement of research experience and plans; a statement of teaching philosophy and interests; and a statement on diversity, equity, and inclusion. In addition, applicants should list three references with complete contact information. References will be requested for those who are being considered for an initial zoom interview. The review of applications will start on November 1, 2022, and will be ongoing. New applications will continue to be accepted and reviewed until the position is filled. The position is scheduled to start on August 16, 2023, or as negotiated.

For further questions or information, please contact the chairperson of the search committee, Dr. Shibin Dai, at [sdai4@ua.edu](mailto:sdai4@ua.edu).





## United States Military Academy West Point – Department of Mathematical Sciences

The Department of Mathematical Sciences at West Point is seeking applicants from diverse backgrounds to become members of our civilian faculty. Candidates should be committed to excellence in teaching, interested in overseeing undergraduate research, and dedicated to character development. As a member of our civilian faculty, you are an important part of our department and will have the opportunity to be involved in every facet of life at the Academy to include teaching, scholarship, cadet and faculty development, and service to the department, the Academy, and the profession. We are thoroughly invested in your career development and ensuring your success both at West Point and beyond. Courses taught may include Math Modeling, Calculus, Probability and Statistics, and electives in mathematics, operations research, and applied statistics. Please see USAjobs.gov for current openings. If you have questions, please contact COL Kevin Cummiskey (kevin.cummiskey@westpoint.edu).

*New!*

### AMS-SIMONS RESEARCH ENHANCEMENT GRANTS FOR PRIMARILY UNDERGRADUATE INSTITUTION FACULTY



Credit: Gloda/iStock/Getty Images Plus via Getty Images

The American Mathematical Society, with generous funding from the Simons Foundation, is pleased to announce new research enhancement grants for mathematicians employed full-time at primarily undergraduate institutions (PUIs), i.e., institutions that do not confer doctoral degrees in the mathematical sciences.

#### Grant details:

Each awardee will receive:

- \$3,000/year for three years to support research-related activities
- \$300/year for three years for institutional administrative costs
- \$300/year for three years for departmental discretionary funds

The AMS expects to award at least 40 grants per year starting in 2023.

#### Who is eligible:

- Mathematicians with an active research program who earned their PhD at least five years before the start of the grant
- Applicants holding a full-time tenured or tenure-track position at a primarily undergraduate institution in the United States, i.e., those institutions that do not confer doctoral degrees in the mathematical sciences
- Applicants with research in an area on the Disciplinary Research Programs list published by the Division of Mathematical Sciences of the NSF
- Awardees must not concurrently hold external research funding exceeding \$3,000 per year

Applications will be accepted **January 2–March 20, 2023**.  
Funds will be disbursed in July 2023.



Learn more at [www.ams.org/ams-simons-pui-research](http://www.ams.org/ams-simons-pui-research)

SIMONS FOUNDATION

## Institute for Advanced Studies – Park City Mathematics Institute



IAS | PCMI PARK CITY  
MATHEMATICS INSTITUTE  
A program of the Institute for Advanced Study



The IAS/Park City Mathematics Institute (PCMI) will take place July 16 – August 5, 2023. The PCMI Summer Session is a three-week residential program that includes several parallel sets of activities for different groups across the entire mathematical community: mathematics researchers, graduate students, undergraduate students, faculty and teachers grades 7-12. The research topic is Quantum Computation. Financial Assistance is available. For additional information and to apply visit <https://www.ias.edu/pcmi>

## Rose-Hulman Institute of Technology – Mathematics Department

The Mathematics Department at Rose-Hulman Institute of Technology invites applications for a tenure-track faculty position at the Assistant Professor level, starting in the Fall of 2023. Requirements include a doctorate in Mathematics, Applied Mathematics, Statistics, or a closely-related field by start of employment. Candidates are expected to have a strong commitment to excellence in undergraduate teaching and continued scholarly and professional development. Experience teaching undergraduate courses in the mathematical sciences with full responsibility is preferred. Candidates with the ability to advance the Department's commitment to diversity and inclusion through research, teaching and outreach with relevant programs, goals and activities are preferred.

The department and the institute place a high value on engaging students from traditionally underrepresented groups, and candidates from these groups are especially encouraged to apply. Individuals who interact well with both students and faculty within our science, engineering and computer science programs are also encouraged to apply. Essential job functions include classroom teaching, curriculum development and continuous improvement, research and other professional development activities, student advising and service to the department and institute. More information can also be found at <https://www.mathjobs.org/jobs/list/21667>.

Application: Applicants must submit their application through Rose-Hulman's Faculty Employment Opportunities website. For full consideration, candidates are encouraged to apply by December 30, 2022.



## Bowling Green State University – Department of Mathematics and Statistics

The Department of Mathematics and Statistics at Bowling Green State University seeks to hire an Associate or Full Professor (with tenure) whose research expertise is in the teaching and learning of college-level mathematics. The person in this position would also serve as the Director of Foundational Mathematics at BGSU. Start date is August 2023. Rank and competitive salary with full benefits are commensurate with qualifications and experience.

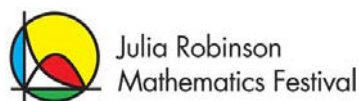
For a complete job description & instructions on how to apply for this position, visit the website: <https://bgsu.hiretouch.com/>. Position is open until filled, but for fullest consideration, please submit a complete application by Jan 31, 2023.

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## ***Events of Interest to NAM Members***

**The Graduate Online Combinatorics Colloquium (GOCC)** is a student-run weekly online combinatorics seminar for graduate students of all levels and areas of combinatorics. Our goal is to support early-career mathematicians and provide a low-pressure seminar consisting of both research and expository talks. For information, visit <https://sites.google.com/view/goccc-combinatorics>.

If you'd like to join the listhost &/or volunteer to give a talk, please email [goccccombinatorics@gmail.com](mailto:goccccombinatorics@gmail.com).



**The Julia Robinson Mathematics Festival (JRMF)** seeks to inspire joy in

mathematics through exploration and collaboration. The JRMF offers both virtual and in person events free and open to the general public. Every week we explore a different fun math Activity.

For more info about the JRMF, events/workshops, or getting involved, please visit [jrmf.org](http://jrmf.org).



**The 2023 NAM Faculty Conference on Research and Teaching Excellence** will be held on April 14-15, 2023. The 2023 FCRTE will be held in Hampton, Virginia and hosted by Hampton University. More information on registration will be forthcoming and posted on NAM's website.

<https://www.nam-math.org/FCRTE>



# BEAM

Bridge to Enter Advanced Mathematics

**Summer Positions Available!**

**Bridge to Enter Advanced Mathematics** is a free program for students from low-income and historically marginalized communities who show exceptional potential in mathematics.



All students and staff at Union College in Summer 2019

*“Teaching at [BEAM] was a great joy, and I highly recommend it as an outreach initiative to get involved in!”*



- Professor Mohamed Omar, Harvey Mudd College

This summer, *change the lives of underserved students with exceptional potential in mathematics.*

**For Summer 2023, we are hiring...**

*...college professors and classroom teachers* as faculty. Design your own courses on favorite math topics. Teach to small classes of motivated middle schoolers.

*...graduate students* as junior faculty, designing and teaching courses with structured support and mentorship.

*...college students* as student life counselors and teaching assistants.

*Please see our website for up to date information on COVID precautions, as well as details such as salary and other compensation.*

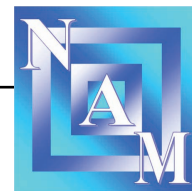
**For more information and how to apply:**

[beammath.org/jobs](https://beammath.org/jobs)



Faculty member Evelyn Owhor with students in NYC 2018





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