NATIONAL ASSOCIATION OF MATHEMATICIANS

NEWSLETTER

Spring 2022 | Vol: 53 | Issue 1

CONTENTS

DR. TORINA LEWIS AWARDED STEPHENS-SHABAZZ TEACHING AWARD

Dr. Torina Lewis (American Mathematical Society) was awarded the 2022 Stephens-Shabazz Teaching Award at the NAM Awards Ceremony and Social Hour at the Joint Mathematics Meetings, held virtually.

The National Association of Mathematicians (NAM)

publishes the NAM Newsletter four times per year.

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.

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. Chinenye Ofodile via e-mail to editor@nam-math.org.

NAM Needs YOU!

TO BE THE NEXT NAM NEWSLETTER EDITOR

The Editor is an appointed Board position and responsible for producing NAM's quarterly newsletter. Responsibilites include editing, receiving and soliciting all articles and advertisements for each newsletter and overseeing the Publications & Publicity Committee. Editor appointments are for three years.

If interested, please send ane email to **editor@nam-math.org**

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`. You can find more information at the web page

`https://www.nam-math.org/submitting-advertisements-and-articles.html`

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	D. Two-thirds page	$500
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C. One-half page	$400	F. One whole page	$800

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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 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.

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

Edition	Deadline	Edition	Deadline
Spring	February 13	Fall	August 13
Summer	May 13	Winter	November 13

Advertisements should be submitted electronically to the editor at `editor@nam-math.org`.

*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.*

NAM 2023 Elections

The following positions will be up for election this coming Fall 2022/Winter 2023

Treasurer

The Treasuer is the Chairperson of the Finance Committee. According to the NAM By-Laws, "The Treasurer has oversight of the financial affairs of the Corporation, is responsible for the Corporation's financial Assets, and shall Chair the Finance Committee She/he shall keep the books of accounts of the Corporation, shall have the primary custody and control of all the monies of the Corporation and shall deposit the same in such banks or other financial institutions as may be designated by the Board.

Secretary

The Secretary is the Vice-Chairperson of the Region A Activity Committee. According to the NAM By-Laws, "The Secretary shall keep the minutes of all meetings of the Board of Directors and the Corporation, and shall maintain and keep the official records of the Board of Directors/Corporation."

Community College Representative

The Community College Member is the Chairperson of the Membership Committee, and is the Vice-Chairperson of the Region C Activity Committee. According to the NAM By-Laws, "This Committee has the responsibility for keeping the membership of NAM viable. This Committee is to develop proper forms for membership applications, for acknowledging the receipt of membership dues (membership cards), for informing and reminding persons that their dues are in the rear.

Region C Representative

The Region C Rep. is the Chairperson of the Region C Activity Committee, and is the vice chair of the Programs Committee. This Representative serves as a liaison for the promotion and facilitation of NAM's activities and affairs in Region C (Midwest/Southwest) which consists of Arkansas, Illinois, Louisiana, Missouri, Mississippi, Ohio, Oklahoma, Tennessee, and Texas.

Submit all nominations by September 9, 2022 to: Dr. Robin WIlson at majority-institution-member@nam-math.org

2022 Joint Mathematics Meetings
by Omayra Ortega

The National Association of Mathematicians organized several sessions at the 2022 Joint Mathematics Meeting. This article serves as a summary of the sessions organized by NAM and sessions where NAM members were featured.

Dr. Johnny Houston organized the NAM Panel Discussion on the history and evolution of the National Association of Mathematicians *Passing the torch: A reflective panel dialogue and social.* The panelists included, Dr. Sylvia Bozeman (Spelman College), Dr. Robert Bozeman (Morehouse College), Dr. Leon Woodson (Morgan State University)mand Dr. Richard Tapia (Rice University). An extensive history of our organization was discussed and perspectives on past NAM leaders such as Nate Dean, Jack Alexander, Genevieve Knight, and Janis Oldham were shared.

Dr. Monica Jackson

Dr. Monica Jackson (American University) gave the 2022 Clayton-Woodard Lec-ture titled, *Spatial Data Analysis for Public Health Data.*

There were four talks given by recent PhDs in the Haynes-Granville-Browne Session of Presentations by Recent Doctoral Recipients on Friday April 8, 2022.

- **Emelie J Curl** (Hollins University) *The Zero Forcing Number of Graph Complements*

- **Dominique Kemp** (University of Wisconsin-Madison) *Decoupling and Approximation of Surfaces*

- **Danielle Middlebrooks**, Paul Patrone, Gregory Cooksey and Geoffrey McFadden (National Institute of Standards and Technology) *Separating Flow Cytometry Populations Based on Probabilistic Analysis*

- **Asia Wyatt**, and Doron Levy (The Johns Hopkins University Applied Physics Laboratory) *Modeling the Effect of Memory in the Adaptive Immune Response*

Dr. Asia Wyatt 2022 recipient of the NSF Math Institutes Prize for giving an outstanding presentation

Dr. Asia Wyatt won the NSF Math Institutes Prizes for outstanding presentations by a recent PhD.

Dr. Robert Q. Berry III the 2022 Cox-Talbot Lecturer

Dr. Robert Q. Berry III (University of Virginia) gave the 2022 Cox-Talbot lecture titled, *Interest Convergence: An analytical viewpoint for examining how power dictates policies and reforms in mathematics.* Dr. Berry delivered an inspiring lecture where he used a hybrid policy analysis-critical race theory lens informed largely by legal scholars like Derrick Bell to make the case that policies and reforms in mathematics education failed to address the needs of historically excluded learners.

Dr. Torina Lewis, the 2022 Stephens-Shabazz Teaching Award Recipient

To replace the annual NAM Banquet, we held a NAM Social and Awards Reception where the Stephens-Shabazz Teaching Award, named in honor of Clarence Stephens and Abdulalim Shabazz, was given to Dr. Torina Lewis. Dr. Lewis was formerly a professor at Clark-Atlanta University where she was known for her dedication to students and innovative teaching. This prize is awarded annually to a mathematics educator who has significantly contributed to the development of mathematical talent in underrepresented undergraduate students and encouraged underrepresented undergraduate students to pursue mathematical careers and/or the study of mathematics at the graduate level, with preference given to faculty from Historically Black Colleges and Universities (HBCUs).

This year marked another successful virtual Joint Mathematics Meetings for the National Association of Mathematicians. Though we had hoped to hold our meetings in-person in Seattle, the JMM had to be postponed to the spring due to the ongoing pandemic. We continue to be grateful that we may still safely meet, fellowship, and network through webconferencing technology. We hope to see everyone, in-person, in Boston in 2023.

Omayra Ortega *Omayra Ortega is the President of the NAM Newsletter. She can be reached at* `mailto:president@nam-math.org`*.*   □

SIAM Announces the 2022 Class of MGB-SIAM Early Career Fellows

SIAM News

This article first appeared online at https://sinews.siam.org/Details-Page/siam-announces-the-2022-class-of-mgb-siam-early-career-fellows on April 07, 2022 and is being reprinted by the permission of the author.

Society for Industrial and Applied Mathematics (SIAM) is pleased to announce the inaugural class of MGB-SIAM Early Career (MSEC) Fellows. These distinguished early career professionals were selected based on their exemplary achievements; support of diversity, equity, and inclusion in their community; and commitment to industrial and applied mathematics, computational science, and data science.

The MSEC Fellowship, established in 2021, reflects a joint commitment by Mathematically Gifted & Black (MGB) and SIAM to promote long-term engagement of MSEC Fellows within SIAM and continued success within the wider applied mathematics and computational sciences community. This program recognizes the achievements of early career applied mathematicians—especially those belonging to racial and ethnic groups historically excluded from the mathematical sciences in the United States—and provides professional activities and career development. SIAM congratulates these 10 esteemed members of the community.

Learn more about them below:

Keisha Cook, Clemson University

Dr. Keisha Cook is an assistant professor in the School of Mathematical and Statistical Sciences at Clemson University. She received her Ph.D. in computational mathematics from the University of Alabama and completed a postdoctoral research position at Tulane University. She is a member of the Southeast Center for Mathematics and Biology where she collaborates with a team of mathematicians and experimentalists. Their research group studies intracellular movement in human lung cells. While the experimentalists capture data using various imaging techniques, Dr. Cook simulates the processes occurring inside of cells using mathematical models and develops methodologies to statistically

analyze the underlying mechanisms of the cell cytoplasm. The mathematical analysis is used by experimentalists to provide a deeper understanding of intracellular processes and introduce innovative ways to categorize movement.

In addition to research, she teaches courses in probability and stochastic processes. She enjoys service that is a direct reflection of the mentors that played a part in helping her reach her goals throughout her career thus far. She strives to support and mentor underrepresented students, postdocs, and researchers throughout her career in academia. She has a keen interest in increasing the number of women and underrepresented students in STEM.

Kyle Dahlin, Odum School of Ecology, University of Georgia

Dr. Kyle Dahlin is a mathematical ecologist who uses mathematical models to study the ecology of infectious diseases in human and wildlife populations. Originally from the island of O'ahu, Hawaii, he received a bachelor's degree in mathematics

from the University of Hawaii at Manoa and continued to obtain a master's and Ph.D. in mathematics from Purdue University. Dr. Dahlin is currently a postdoc at the Center for the Ecology of Infectious Diseases of the Odum School of Ecology, at the University of Georgia. His work primarily focuses on using mathematical models to understand how ecological interactions impact the transmission of mosquito-borne pathogens. He is also the co-founder of Indigenous Mathematicians, an organization that seeks to connect and support Native American, Native Alaskan, and Pacific Islander mathematicians.


Ranthony A.C. Edmonds, The Ohio State University

Dr. Ranthony A.C. Edmonds is a National Science Foundation Mathematical and Physical Sciences Ascending Postdoctoral Researcher at The Ohio State University, and an associate editor at the American Mathematical Monthly. Her research interests include commutative ring theory, applied algebraic topology, data science,

and mathematics education. She earned a Ph.D. in mathematics in 2018 from the University of Iowa, an M.S. in mathematical sciences from Eastern Kentucky University in 2013, and a B.A. in English and a B.S. in mathematics from the University of Kentucky in 2011.

Dr. Edmonds uses her passion for storytelling and hidden narratives in STEM to enact her career mission: to increase access to mathematics through community engaged scholarship. In 2019, she co-created the first service-learning course in mathematics at Ohio State, entitled "Intersections of Mathematics and Society: Hidden Figures." In 2021, she was awarded a Racial Justice Grant as the principal investigator of the project, "Hidden Figures Revealed: Dynamic History and Narratives of Black Mathematicians from The Ohio State University," which is the first comprehensive study of Black mathematicians at a single U.S. institution.
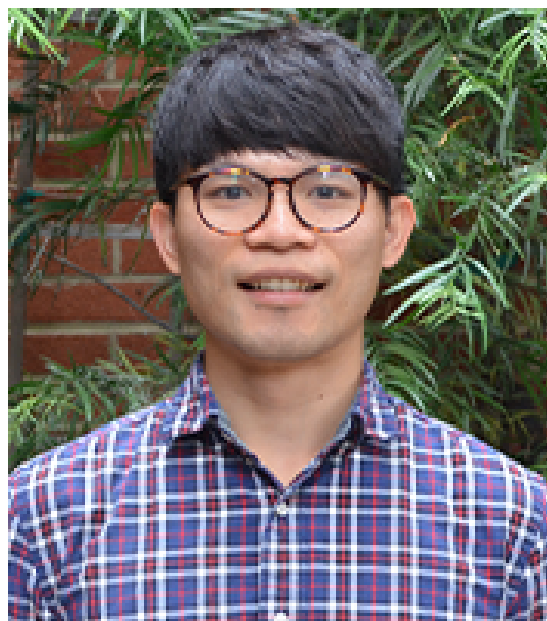
Samy Wu Fung, Department of Ap-

plied Mathematics and Statistics, Colorado School of Mines

Dr. Samy Wu Fung is an assistant professor in the Department of Applied Mathematics and Statistics at Colorado School of Mines. Prior to joining Mines, he was an assistant adjunct professor in the Department of Mathematics at UCLA. He received his Ph.D. in applied mathematics from Emory University in 2019. Dr. Fung's research interests lie in the intersection of applied mathematics and data science. In particular, he is interested in inverse problems, optimization, and deep learning.

Nicole D. Jackson, Sandia National Laboratories

Dr. Nicole D. Jackson is a systems analysis researcher in the energy water systems integration department at Sandia National Laboratories, where she was also a postdoctoral appointee. Prior to joining Sandia, she received her B.S. and Ph.D. in civil engineering, an M.S. in materials science and engineering from the Uni-

versity of Illinois at Urbana-Champaign, and an M.S. in engineering mechanics from Virginia Tech. Her dissertation work focused on understanding the interaction and response of agricultural trade to extreme weather events such as temperature extrema, heavy rain, and drought. At Sandia, Dr. Jackson's current research focuses on the resiliency of critical infrastructure to extreme weather events and natural hazards, with an emphasis on renewable energy, water resources, and the electric grid.

Reginald L. McGee II, College of the Holy Cross

Dr. Reginald L. McGee II is a proud graduate of Florida A&M University. He went on to obtain a Ph.D. from Purdue University and to complete a postdoctoral fellowship at the Mathematical Biosciences Institute at The Ohio State University. His research program considers questions in immunobiology through modeling and data analysis. In recent years, Dr. McGee has been specifically interested in blood diseases including leukemia and sickle cell disease.

Ivan Ojeda-Ruiz, Texas State University

Dr. Ivan Ojeda-Ruiz graduated from the University of Puerto Rico, Rio Piedras, with a bachelor's degree in mathematics and chemistry, then continued to the University of Texas at Arlington where he completed his Ph.D. in mathematics. Dr. Ojeda-Ruiz is mainly interested in numerical linear algebra with applications in image processing and data clustering. His dissertation thesis was based on Normalized Cut (Ncut) problems with linear constraints. Many methods are used to solve Ncut problems, such as projected power method, lanczos method, augmented Lagrangian Uzawa, etc. He has recently been involved in face recognition and video surveillance applications and has been interested in a few possible frameworks. Dr.

Ojeda-Ruiz mainly uses Dynamic Mode Decomposition (DMD), but is familiar with robust principal component analysis and low rank recovery.

Joan Ponce, Semel Institute for Neuroscience and Human Behavior, University of California, Los Angeles

Dr. Joan Ponce is a postdoctoral scholar at the Semel Institute for neuroscience and human behavior at University of California, Los Angeles. Her research interests lie at the interface between mathematics and biology. She develops and analyzes mathematical models to describe and better predict the evolution of disease dynamics. One of Dr. Ponce's research interests is exploring different ways of using existing data and developing novel models that can adapt to the ever-changing nature of disease transmission. Public health policies rely on increasingly complex models to approximate epidemics realistically and accurately with the available data. Her primary

research interests include dynamical systems, bifurcation analysis, parameter estimation, geospatial modeling, and optimal control.

Dr. Ponce obtained her Ph.D. from Purdue University in 2020 and her B.Sc. in mathematics from the University of Florida in 2013. Her Ph.D. thesis focused on widely used simplifying assumptions and how they impact model outcomes. One key focus of her research consists of using case data to estimate model parameters to track the evolution of an outbreak.

Ludovic Tangpi, Department of Operations Research and Financial Engineering, Princeton University

Since 2018, Dr. Ludovic Tangpi has been an assistant professor of Operations Research and Financial Engineering at Princeton University. His postdoctoral fellowship was in the Department of Mathematics at the University of Vienna, and his Ph.D. between Humboldt University Berlin and University of Konstanz in Ger-

many. Dr. Tangpi's research interests include stochastic analysis and mathematical finance.


Oyita Udiani, Virginia Commonwealth University

Dr. Oyita Udiani is an assistant professor at Virginia Commonwealth University. He was born in Lagos, Nigeria and immigrated to the United States as a young teenager. After completing high school, Dr. Udiani received a scholarship to study mathematics at Saint Augustine's University, a historically Black college in Raleigh, NC. He later went on to earn a master's degree from The Ohio State University and his doctorate from Arizona State University. Dr. Udiani's research has focused on complex adaptive systems, ecology, public health, and collective behavior. He is proud of the many publications and grants he has gotten in his early career. Dr. Udiani is passionate about engaging minoritized communities in mathematics through his teaching, one-on-one mentoring, and public-speaking events. He wants people to know that, regardless of what your dreams are, the ability to think creatively, logically, and abstractly is necessary to bring you to life. This is what math is about!

This article was posted in the SIAM News Blog. The SIAM For more information on the MGB-SIAM Early Career Fellows visit **https://www.siam.org/students-education/programs-initiatives/mgb-siam-early-career-fellowship/** □
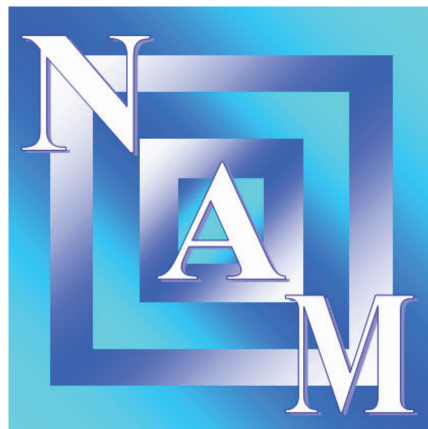
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UA Math Award Honors Distinguished Alumnus
The University of Alabama

This article first appeared online at https://as.ua.edu/2022/04/07/ua-math-award-honors-distinguished-alumnus/ on April 07, 2022 and is being reprinted by the permission of the author

The University of Alabama Department of Mathematics honored one of its most distinguished alumni during this year's Honors Week with the addition of a new award, the Louis Dale Medal in Mathematics. The medal is awarded to an upper-level mathematics student who displays excellence in their work.

Dr. Louis Dale was part of the Army's 82nd Airborne Division and received a bachelor's in mathematics from Miles College before teaching mathematics in Birmingham high schools. He then received his master's in the same at Atlanta University, which he attended with the support of a National Science Foundation Fellowship for High School Math and Science Teachers. At The University of Alabama, Dale was the first African American Ph.D. student in the math department. He received his degree in 1973, less than twenty years after Autherine Lucy Foster attended her first class on campus.

After graduating, Dale was hired at The University of Alabama at Birmingham as the first African American in the math department on the tenure track. He taught there for over 40 years, retiring in 2015 after serving as the first African American Associate Provost and first African American Vice President. His storied career includes more than $40 million dollars in National Science grant funding, the editing of over 50 STEM national magazines and booklets, and an NSF Presidential Award for Engineering, Science, and Mathematics presented by President Bill Clinton.

"He was first in a time when being first was hard," said Dr. David Cruz-Uribe, chair of UA's math department. "He was the first in many ways. He has been a trailblazer, and it's not been easy."

Although his legacy is large, Dale is determined to keep forging a path ahead for other minorities in STEM fields. He was the initial recipient of the NSF's Louis Stokes Alliances for Minority Participation Grant (LSAMP) and served as principal investigator for three NSF grants: Alliance for Minority Participation, Alliance for Graduate Education and the Professoriate and Bridge to the Doctorate Program. Even still, he serves as co-PI of the Louis Stokes Alliance for Minority Par-

ticipation Program and the Alabama AD-VANCE Partnership for Achieving Gender Equality in STEM.

The Louis Dale Medal sets out to honor this legacy and recognize students whose achievements will make a lasting impact both in mathematics and at the university. This year's recipient, Troy Roberts, is a fourth-year student majoring in mathematics, as well as in the Accelerated Master's Program in mathematics.

"Every one of the students who's going to get this award will be among the best students we've ever had," said Cruz-Uribe. "They'll go on to have outstanding careers, either in academia or industry. I think they are going to be the kind of people who are going to help boost our program both nationally and internationally. These students are exceptional."

Each student recognized will receive a medal designed by UA sculptor Katie Adams, as well as a scholarship to help support their studies.

□

Pomona and Cal Poly Students Team Up to Document Black Contributions to Mathematics
by Rya Jetha

This article first appeared online at https://tsl.news/black-mathematicians-database/ on March 10, 2022 and is being reprinted by the permission of the author

How many Black people have received PhDs in mathematics? What did they study?

How many Black women have received PhDs in mathematics? What are their stories?

In a cross-campus collaboration between Pomona College and Cal Poly Pomona (CPP), students are taking on the gargantuan task of finding the answers.

Led by mathematics professors Edray Goins of Pomona and Robin Wilson of CPP, the Mathematicians of the African Diaspora (MATHAD) database seeks to document the contributions Black mathematicians have made to their field.

Expanding on the work of mathematics professor Scott Williams, who taught at SUNY Buffalo, MATHAD was founded in 1997 to document the lives and work of

Black mathematicians he was meeting at conferences. Over the course of a decade, Williams wrote more than six hundred profiles that he shared online.

"Every good thing comes to an end and he decided to retire," Goins told TSL, "so myself and a few friends of mine decided to take over the site so that we could continue to add more profiles and update the information that was there. And now it has turned into a much, much larger project."

Last year, Goins and Wilson hired students at Pomona and CPP to help them expand the scope of MATHAD's coverage. After transferring Williams's profiles to a searchable database, students dove into the research to add more biographies.

"We looked for any pertinent information about [the mathematicians'] research areas [and] about their personal life. We found people ranging from the 1800s to present day, so it was a wide variety of types of research we had to do," said Christina Marsh PO '23, a student working on MATHAD.

For one of her biographies, Marsh looked into the life of Gladys West, whose pivotal contributions to satellite geodesy models helped shape Global Positioning System technology as it exists today.

Splitting up the research efforts into three groups, some students are focusing on finding out how many Black mathematicians receive doctorates each year, while others are hoping to find leads on more recent figures with a list that starts in 2000.

While contributing to the project, Virgil Munyemana PO '22 was struck by how few Black scholars currently hold doctorates in the US.

Of all the PhDs granted in the U.S. annually across all fields, only seven percent are granted to Black Americans. Among those, just one percent in the last decade has been in mathematics.

"When you see the actual numbers, like in any given year, there's only five or 10 [Black people who receive PhDs in mathematics]. I have been taken aback by that," Muyemana said.

Wilson is leading the charge to identify all the Black women who have received PhDs in math since 1980.

"There is a paper that was published in 1981 that works to identify all of the Black women with mathematics PhDs up to that point and the article shares some of their stories," Wilson told TSL. "This project attempts to replicate that work for the past 40 years from 1981 to 2021 as well as to add the names and some of the accompanying stories that were missing from the first article."

Under Wilson's guidance, students have been contacting graduate school programs for information while siphoning through decades worth of archival articles and records. As they find leads, they have started reaching out with hopes of conducting interviews to add to the database.

For Dante Christian PO '25, "filling out the stories behind these people is very moving. You get a glimpse into their focus and their niche."

Christian, who attended a high school in Georgia, found MATHAD especially help-

ful during his freshman year of college.

"Coming from the south, February was the only time we discussed Black successful people, which was very, very disappointing and disheartening," he said.

MATHAD has changed that, giving him more frequent exposure to Black mathematicians that came before him as he navigates the math major himself.

"There have been other Black people in the exact same situation as me. The people I'm researching — they've been in white dominant spaces. [. . .] It's very [inspiring] to know that their work has put me in a better position," Christian said.

Marsh, who brings a unique angle to the project as an environmental analysis major, said being a part of MATHAD inspired her to embark on a similar research endeavor.

Called "Equity and the Environment" for building community, Marsh seeks to expand the work MATHAD initiated to other disciplines, in her case in geoscience and environmental science. "I've taken a lot of the lessons and intentions that we set early on [in MATHAD] to use as guiding principles for the work that I'm doing, even though it's very different," Marsh said.

"We're researching people for one thing and building community and networks. I think that a lot of the motivations for both [MATHAD and Equity and the Environment] are very similar to me."

Goins sees MATHAD growing into a center at Pomona focussing on the history of Black people in mathematics. He already runs summer programs at Pomona, and hopes to introduce an additional program for students to research the lives and work of Black mathematicians.

"I'm hoping to have a research unit that focuses on math history — the first of its kind in the country," Goins said.

Wilson and Goins hope that the database will be a way for Black students studying math and other STEM fields to feel recognized within the discipline, while learning about those who trailblazed the field before them, and who they might share similar experiences with.

"It's been important for me in my development to know that I was not the first person that had to experience the isolation and marginalization that goes with being a Black person in a field like mathematics," Wilson said.

Rya Jetha *is a student at Cal Poly Pomona University. Rya Jetha can be reached at* `rsja2019@mymail.pomona.edu`. □
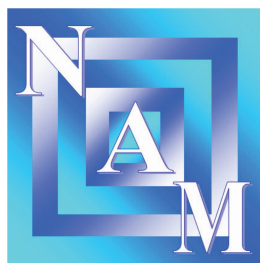
Board Member Feature: Dr. Aris Winger
by Omayra Ortega & Aris Winger

I had the pleasure of interviewing Dr. Aris Winger, Assistant Professor of Mathematics at Georgia Gwinnett College in Lawrenceville, GA and Executive Director to the National Association of Mathematicians (NAM). https://mathematicallygiftedandblack.com/honorees/aris-benjamin-winger/

Q: How did you first hear about NAM and become a member of this organization?

I first heard about NAM as an undergraduate at Howard University. The organization was always a beacon of what was possible in mathematics for people who look like me.

Q: Do you do any service for NAM or other professional associations?

I am the current Executive Director, which means I have a view of a lot of the programs and efforts. It is a blessing, an honor and an inspiration to see all the service that is done in this organization.

Q: What inspired you to work in your field of expertise?

Mathematics was always a safe space for me. Once I got to high school and college and had math teachers who reminded me of myself, I realized I had a place in it long term.

Q: Do you have any recent publications or projects that you are excited about?

I have written and co-edited a series of books with Dr. Pamela Harris about advocating for students of Color in Mathematics.

Q: Who or what inspired you to pursue academia?

I fell in love with teaching near the end of my graduate school education. So that helped. Cora Sadosky introduced the notion of graduate school to my imagination. James Donaldon showed me I could have a career in this discipline. William Hrusa supported me unconditionally. Michael Young inspires me to think radically about reimagining this discipline so that it supports everyone. My wife and daughter provide light for me in a world that is often

times so dark.

Q: What would you tell students interested in pursuing an academic career?

Find your community of supporters. People who support you just for being you.

Find examples of what you might want your future to look like.

__Omayra Ortega__ is an Assistant Professor of Mathematics & Statistics at Sonoma State University. She can be reached at `president@nam-math.org`. ☐

The Sylvia Bozeman and Rhonda Hughes EDGE Foundation Announces Malena Español as 2022 Karen EDGE Fellow
By: Professor Ami Radunskaya

The EDGE Foundation is delighted to introduce the new 2022 Karen EDGE Fellow, Dr. Malena Español. The Karen EDGE Fellowship Program was established with a generous gift from Karen Uhlenbeck on the occasion of her 2019 Abel Prize. The Fellowships are designed to support and enhance the research programs and collaborations of mid-career mathematicians who are members of an under-represented minority group. Dr. Español was selected as the 2022 Fellow on the basis of her excellent research programs and her plans to use the funds for enhancing those programs through collaboration and travel. Dr. Español is currently an Assistant Professor of mathematics at Arizona State University.

Malena Español earned her undergraduate degree from the University of Buenos Aires. She then earned her Ph.D. in Mathematics from Tufts University in 2009, under the direction of Misha E. Kilmer. She was a postdoctoral scholar at California Institute of Technology in Pasadena, CA, taught at the University of Akron, and subsequently joined the faculty of Arizona State University, where she has taught since 2019.

Dr. Español's research interests are in the areas of applied and computational mathematics. More specifically, she studies the development, analysis, and application of mathematical models and numeri-

cal methods for solving problems arising in science and engineering. Her research has been at the intersection of many different mathematical areas and is highly interdisciplinary, involving collaborations with engineers, chemists, and medical doctors. Her work has been focused on problems related to materials science, signal/image processing, and medical diagnostics. Some of her most recent projects involve the development of numerical methods for solving inverse problems in imaging.

The Karen EDGE Fellowship is an opportunity for Dr. Español to advance her research endeavors. The Fellowship will connect Dr. Español and her students with collaborators and experts in the area of inverse problems and imaging. Additionally, these funds will enable Dr. Español to travel to various conferences to present her work. Lastly, Dr. Español will use the Fellowship to bring bilingual speakers to Phoenix for a new seminar series entitled Spanglish Math Seminar. The EDGE Foundation is very much looking forward to supporting Dr. Español as she uses this fellowship to further flourish!

For more information on the Karen EDGE Fellowship, visit **https://www.edgeforwomen.org/karen-edge-fellowship-program/**   □

Job Openings

Berry College - Mathematics Department

Berry College is seeking a new colleague (**Visiting Assistant Professor/Visiting Lecturer**) in Mathematics for the 2022-2023 academic year. The Mathematics Department at Berry College is a department that is known for innovative pedagogy. Applicants should have teaching interests that can support our foundations curriculum and service courses to partner disciplines. In particular, duties may include teaching courses across the mathematics curriculum - such as introductory statistics, precalculus, applied calculus and differential equations. The ideal candidate will demonstrate aptitude and enthusiasm for teaching in a liberal arts environment, an interest in active learning pedagogy and student engagement, and a commitment to fostering an inclusive learning environment that attracts and sustains a diverse population of students, and a desire to contribute to the culture of the department. Candidates are also encouraged to be involved in the activities and life of the department such as attending the department's weekly problem-solving group meetings. Find out more about this position and Berry College at `https://berry.interviewexchange.com/jobofferdetails.jsp?JOBID=147102`

Conference for African-American Researchers in the Mathematical Sciences (CAARMS)

MSRI
Mathematical Sciences Research Institute

2022-23 SCIENTIFIC WORKSHOPS

MSRI invites registration for its 2022-2023 scientific workshops in Berkeley, CA. These workshops are open to all mathematicians.

Established researchers, postdoctoral fellows, and graduate students are invited to apply for funding.

Analytic and Geometric Aspects of Gauge Theory

Connections Workshop: August 25-26, 2022

Introductory Workshop: August 29 - September 2, 2022

Floer Homotopy Theory

Connections Workshop: September 8-9, 2022

Introductory Workshop: September 12-16, 2022

Algebraic Cycles, L-Values, and Euler Systems

Connections Workshop: January 19-20, 2023

Introductory Workshop: January 23-27, 2023

Diophantine Geometry

Connections Workshop: February 2-3, 2023

Introductory Workshop: February 6-10, 2023

For more information, including applications, funding deadlines, resources for workshop attendees, and child care grants for researchers with children under age 17, please visit:

msri.org/workshops

2023 SUMMER RESEARCH IN MATHEMATICS PROGRAM

MSRI's 2023 Summer Research in Mathematics (SRIM) program provides space, funding, and the opportunity for in-person collaboration to small groups of mathematicians, especially women and gender-expansive individuals, whose ongoing research may have been disproportionately affected by various obstacles including family obligations, professional isolation, or access to funding. **Visits for the program must take place in June and July of 2023 (exact program dates to be announced in Fall 2022).**

PROGRAM ELIGIBLITY

· **Groups of two to six mathematicians** with partial results on an established project may submit an application to the program.
· **Each member of the group must have a Ph.D. in mathematics or advanced graduate standing**, and at least one team member must be U.S. based.
· Each group may apply to be in residence at MSRI for a **minimum of two weeks**, though longer visits are possible. All members of the group must be in residence for the full duration of the visit.
· Applicants may only apply as a member of one research group.

Participants are provided with lodging, all meals, and reimbursement of travel expenses. MSRI also has access to private sources of funding for researchers with children under age 17 to fully participate in its scientific activities. For full program details, visit the website.

Apply online beginning August 2022
Deadline: December 1, 2022

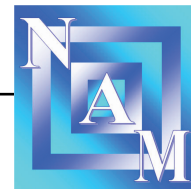To learn more about the SRIM program and application process, please visit:

msri.org/summer

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Spring 2022