NATIONAL ASSOCIATION OF MATHEMATICIANS

NEWSLETTER

Winter 2023 | Vol: 54 | Issue 4

CONTENTS

A FEW TRANSITONS ARE UPON US

Pictured is Dr. Johnny Houston receiving the legacy award for the over 50 years of service to NAM during the 2024 Joint Mathematics Meeting. In this picture is Dr. Omayra Ortega's last JMM as NAM president. We thank both of them for all of their service to NAM

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. Zerotti Woods via e-mail to editor@nam-math.org.

From the Editor

Hello friends,

I hope everyone is having an awesome 2024 so far! The new year always brings me a sense of excitement for what the year will bring! I did not get any attempts on the last newsletter problem unfortunately. I hope all of you will attempt the problem this time and let me know what you think! I will add that we have had a few submissions of new ideas for the NAM logo! This is exciting. Please keep those coming and we will begin the important process of considering the ideas soon. Be well and talk to all of you soon!

Cheers,
Zerotti

Publishing in the NAM Newsletter

Submissions: The *NAM Newsletter* is a quarterly publication. Articles and letters should be submitted electronically via the website. For advertisements, articles, and announcements, please visit

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

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 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**
Spring	March 1
Summer	June 1

Edition	**Deadline**
Fall	September 1
Winter	December 1

Advertisements should be submitted electronically via the website
at`https://nam-math.org/submitting-advertisements-and-articles`.

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.

Revised 11/19

2024 NAM Faculty Conference on Research and Teaching Excellence

FCRTE will bring together mathematicians from all sub disciplines of mathematics to exchange mathematical ideas on teaching pedagogy, emerging research, and the state of mathematics. Are you currently working on a teaching or research project? Consider being a presenter at 2024 FCRTE.

SAVE THE DATE
APRIL 12-13, 2024

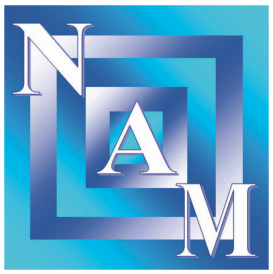
REGISTRATION AND TRAVEL REQUEST LINK

ABSTRACT SUBMISSION LINK

TENTATIVE SCHEDULE LINK

Funding for travel is available for those who register and apply for funding before the March 15, 2024 priority funding deadline.

FOR MORE INFORMATION CONTACT: PROGRAMMING@NAM-MATH.ORG



IS LOOKING FOR VOLUNTEERS

VOLUNTEER OPPORTUNITIES OPEN TO NAM MEMBERS IN GOOD STANDING

PROGRAMMING COMMITTEE
HELP ORGANIZE NAM EVENTS

MEMBERSHIP COMMITTEE
CULTIVATE NAM MEMBERSHIP

PUBLICITY & PUBLICATIONS COMMITTEE
HELP PRODUCE NAM'S NEWSLETTER, WEBSITE, SOCIAL MEDIA, AND BLOG

NOMINATIONS COMMITTEE
SELECT NAM AWARD RECIPIENTS

FINANCE COMMITTEE
KEEP NAM'S FINANCES IN ORDER

ELECTIONS COMMITTEE
KEEP NAM'S ELECTIONS RUNNING SMOOOTHLY

BYLAWS TASKFORCE
ASSIST WITH REVIEW OF AND VOTING FOR NEW BYLAWS

WEBINAR FACILITATORS
FACILITATE MONTHLY GRAD STUDENT DISCUSSION GROUPS

AT LEAST A ONE YEAR COMMITMENT IS EXPECTED OF ALL COMMITTEE MEMBERS, TASKFORCES ARE USUALLY SHORTER COMMITMENTS

CONTACT PRESIDENT[AT]NAM-MATH.ORG FOR MORE INFORMATION OR FOR A VOLUNTEER ASSIGNMENT


INSERT
NEW LOGO
HERE
Calling All
NAM
Creatives
NEW NAM LOGO NEEDED.
The original NAM logo, as pictured above, has served the organization well. Now, it's time for a new logo, and we're calling on our members for ideas!
Send designs for consideration.
Send ideas, designs, and/or submissions to the Publications and Publicity Committee at EDITOR@NAM-MATH.ORG.

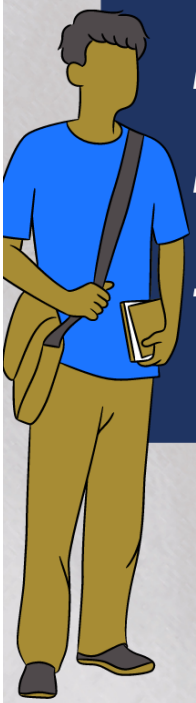
UNDERGRAD RESEARCHERS:

SEE YOUR WORK IN PRINT.

SUBMIT TO THE NAM NEWSLETTER.

SHOWCASE YOUR WORK IN A PROFESSIONAL NEWSLETTER.

EMAIL THE NEWSLETTER EDITOR FOR MORE INFORMATION.



INCREASE YOUR PROFESSIONAL VISIBILITY.

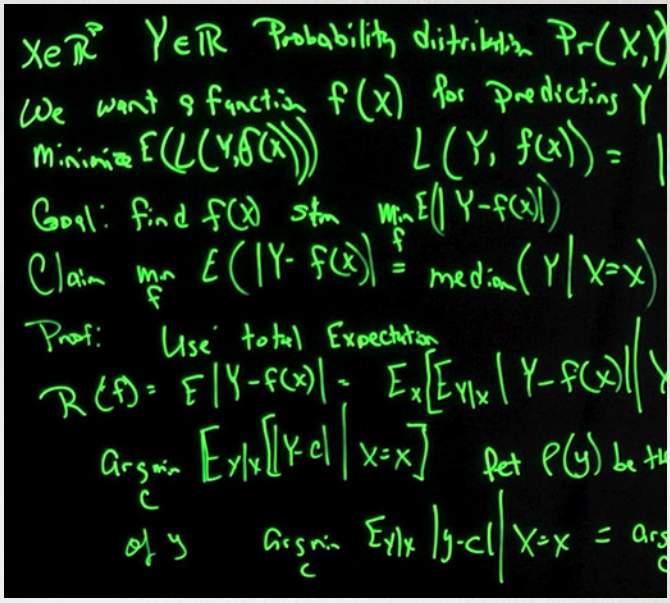
~[THIS COULD BE YOU.]

DEMONSTRATE YOUR WRITING CAPABILITIES.

Send all inquiries to: editor@nam-math.org

NEWSLETTER MATHEMATIC PROBLEM

Want your name in the next newsletter? Want to challenge yourself with a tough mathematical problem? Solve the 54.1 NAM Newsletter Mathematics Problem



Calling all Undergrad and Grad Student

What's at stake? Bragging rights and your name and institution in the next NAM newsletter.

Q.E.D

Email your proof to editor@nam-math.org

54.4 NAM Newsletter Mathematics Problem

A well-known and efficient algorithm for finding the largest eigenvalue/vector is the power iteration algorithm, which can be summarized as follows:

- INPUTS: $A \in \mathbf{R}^{n \times k}$
- OUTPUTS $\lambda \in \mathbf{R}$, $v \in \mathbf{R}^{k \times 1}$ the largest eigenvalue/vector
- v_0 is a random vector in $\mathbf{R}^{k \times 1}$
- While $\|(A - \lambda_i I)v\| > \epsilon$
  - $v_{i+1} = Av_i$
  - $\lambda_{i+1} = \|v_{i+1}\|$
  - $v_{i+1} = \frac{v_{i+1}}{\lambda_{i+1}}$
  - i=i+1

Prove that the following is an analogous algorithm for singular values/vectors

- INPUTS: $A \in \mathbf{R}^{n \times k}$
- OUTPUTS: $\sigma \in \mathbf{R}$, $v \in \mathbf{R}^{k \times 1}$, $u \in \mathbf{R}^{n \times 1}$ the largest singular-value/vectors
- v_0 is a random vector in $\mathbf{R}^{k \times 1}$
- While $\left\|u_i^T A v_i - \sigma_i\right\| > \epsilon$
  - If 0=i mod 2
    - $u_{i+1} = Av_i$
    - $\sigma_{i+1} = \|u_{i+1}\|$
    - $u_{i+1} = \frac{u_{i+1}}{\sigma_{i+1}}$
  - Else
    - $v_{i+1} = u_i^T A$
    - $\sigma_{i+1} = \|v_{i+1}\|$
    - $v_{i+1} = \frac{v_{i+1}}{\sigma_{i+1}}$

A Transition is Upon Us

By Dr. Aris Winger

Dr. Ortega and Dr. Winger During JMM 24

Dr. Asamoah Nkwanta NAM's Newest Leader

January can be a very busy time for the organization. That has been especially true during those initial months where a transition occurs. This past January of 2024 is no different. It marks a bittersweet moment as one of our most impactful and consequential leaders gives way to a committed member whose track record of leadership should have us beaming with optimism about the future.

Although Dr. Omayra Ortega took the reins of the presidency of NAM reluctantly, she handled the position with care and a fierce commitment to moving the organization forward and serving its mission of expanding mathematics for all people, particularly African-Americans. Her impact over the last 3 years is undeniable. A few highlights:

- Through some of the most troubled times of the pandemic, she successfully led NAM's Signature Events through those times in virtual format.
- She secured tens of thousands of dollars in funding for NAM's signature independent in person events, FCRTE and NAM MathFest.
- She brokered her new and burgeoning relationships with partners Two-Sigma, The Simons Foundation, The National Security Agency and continued to strengthen the relationship between the American Mathematical Society and the Mathematical Association of America, EDGE, and the Association for Women in Mathematics.
- She led the charge on our revamped website and secured NAM's standing to receive funds from the National Science Foundation, opening future possibilities for NAM to move closer to its goal of financial prosperity in order to serve its constituents.

Those are just a *few* highlights. She achieved all of this while comporting herself with grace, humility, and a commitment to a collaborative leadership model in which everyone's voice was important and needed to be heard. The National Association of Mathematicians is indebted to and so supremely thankful for her dedication and setting the stage for the next 55 years of service to its members and the mathematical community overall.

We are thrilled that Dr. Ortega has created a fertile ground for which our incoming president will grow fruitfully for the years to come.

Dr. Asamoah Nkwanta has epitomized great leadership for the last three decades. He has overseen the Mathematics Department at Morgan State University as its department head and led the movement to creating one of the few Doctorate Degrees in mathematics at an HBCU.

His commitment to NAM and its mission is unquestioned. It was Dr. Nkwanta who was gracious and courageous enough to host the first in-person NAM Mathfest at Morgan State University after the pandemic, presiding over one of the most significant and well attended Mathfests in the nearly four decade history of the event.

This is the tip of the iceberg of what his visionary leadership is bound to bring us. We as an organization are thrilled with what is to come.

When you get a chance, please thank our outgoing President for her service and welcome our incoming president for his new role in continuing her legacy and building his own for NAM and its members and the mathematical community overall.

A Word From NAM's Newest President

It is an honor to be the newest president of the National Association of Mathematicians (NAM). NAM plays a critical role in advancing education, service, and research within the mathematics community of the United States. My affiliation with NAM started during my undergraduate years at North Carolina Central University. Concerning my academic background, I have many years of teaching experience at the college and university levels. I have worked on numerous interdisciplinary projects that involve computational mathematics, molecular biology, the performing arts, mathematics education, and active learning.

My academic research interests are algebraic and enumerative combinatorics and discrete mathematical biology. I have received numerous teaching, leadership, and research awards. In addition to my academic experience, I have over ten years of industry experience in the areas of applied mathematics, computer science, and systems engineering (operations research). I received my industry experience in the 1980s and 90s while working as a member of the technical staff at Logicon, Inc. in Los Angeles, CA and the Jet Propulsion Laboratory in Pasadena, CA. Thus, I hope to bring a diverse research, industry, higher education, and mathematical background to NAM.

I am familiar with, have worked with, and participated in some of the minority organizations, groups, conferences, and programs within the mathematics community. A few of the organizations are the Conference for African American Researchers in the Mathematical Sciences, Blackwell-Tapia Conference, Association for Women in Mathematics, Infinite Possibilities Conference, Enhancing Diversity in Graduate Education Program, and Summer Program in Research and Learning. I plan to work diligently and courageously, and of course, steadily and professionally with all organizations and groups.

I believe NAM can strengthen its research infrastructure, student outreach, and global connections by expanding its membership among the nation's HBCUs and other minority-serving universities and colleges. I have experience with mentoring and providing outreach to marginalized groups, including women in STEM, immigrant colleagues, and new-career students, all of whom aren't always well-represented in the mathematical sciences. My focus has always been to uplift the African-American mathematics community. I look forward to the opportunity to serve the wider mathematical community by being a champion of NAM's mission.

I welcome the positive challenge and chance to be the face and voice for those groups traditionally not represented in the mathematical sciences and NAM. Serving as NAM President is an extraordinary opportunity for me and my career as this is part of my professional, research, and social life. I will work conscientiously and lead as a team cohesively and constructively for future growth with NAM leadership in order to impact the strong legacy of NAM by:

1. Continuing the strong and ethical leadership of the organization
2. Increasing communications between members, partners, and supporters
3. Expanding infrastructure and technology within the organization
4. Increasing positive visibility and meaningful partnerships
5. Expanding and increasing fundraising.

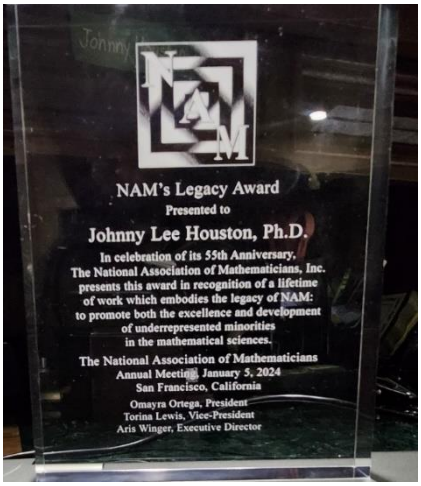
I look forward to this journey and am filled with gratitude for this opportunity to serve.

NAM PRESENTED JOHNNY L. HOUSTON, PhD

NAM's 55th Anniversary Legacy Award AT-JMM 2024

At NAM's 55th Anniversary Banquet (JMM) in San Francisco, CA, Jan. 5, 2024, NAM presented its 2nd Legacy Award to Johnny L. Houston who retired from NAM's Board of Directors in Jan. 2024 after 50 years of service on NAM's Board of Directors between (1969-2024). This was NAM's 2nd Legacy Award ever given (Dr. Evelyn Boyd Granville received NAM 1st Legacy Award at NAM's 50th Anniversary Banquet in 2019). A Legacy Award may be given on a NAM's Anniversary year is divisible by 5.

When presented the Award, Houston said "NAM has been an integral part of my positive impact in the mathematical sciences community in the areas of Equity, Diversity, and Inclusivity (EDI), and it has promoted excellence in the mathematical sciences for all Americans, especially underrepresented American minorities. I am and will continue to be an active Life Member in NAM, MAA, AMS, and SIAM to serve as an example of what I am requesting other to do. America is, and should always be, a great country with access and freedom for all of its citizens to have the opportunities to become their own success stories in STEM areas, especially in the mathematical sciences. However, too many of America's citizens, especially underrepresented American minorities, still need more support, opportunities, doors opened, and encouragement to succeed. Certain groups need help to achieve parity. I urge NAM and other groups on the Conference Board of the Mathematical Sciences (CBMS) to continue to advocate, in America, EDI for all American citizens in their pursuit in the study of mathematics at every level."



When the Legacy Award was presented, several persons at the Banquet came to the dais and made complimentary remarks about Houston's dedication, commitment, service, and many contributions to NAM and the mathematical sciences community. These persons were NAM's president, Dr. Omayra Ortega, NAM's Executive Director, Dr. Aris Winger, former NAM's president, Dr. Edray Goins, former NAM's Vice. president Dr. Sylvia Bozeman, former NAM's treasurer, Dr. Robert Bozeman, former NAM's Board member Dr. Duane Cooper, and NAM's first Exec. Director, Dr. Leona Harris. The speakers' remarks varied. Many referred to contents in Houston's brief Bio on the next page. All alluded to the facts Houston was one of the lead Co-Founders of NAM in (1969), NAM's first active and longest serving Executive Secretary (1975-2000) who also served on NAM's Board of Directors under every NAM's presidency, except Dr. Asamoah Nkwanta, which began Feb. 1, 2024. Houston received NAM's Life Time Achievement Award (1999), and NAM's Co-Founder's Award (2019) and has presented practically all of NAM's Lectures and Addresses, including NAM's 25th David Blackwell Lecture at MAA MATHFest (2019) in Cincinnati, OH, during Blackwell's 100th year and NAM's 50th year. When NAM's Board established NAM's Historical and Archival Committee (2018), Houston was appointed chair. Houston wrote and published the 242-pp. volume: **The History NAM, the first 30 years** (2000). He updated NAM's History in the publication **Passing the Torch** (2023, Feb. AMS Notice). Words on the Award summarized Houston's services and contributions in the mathematical Sciences.

Johnny L. Houston is Professor Emeritus at Elizabeth City State University-ECSU (1984-2010) where he served as Vice Chancellor, Academic Affairs and Senior Research Professor. He is Executive. Secretary Emeritus of the National Association of Mathematicians (NAM) (1975-2000) and served on NAM's Board of Directors for 50 years during NAM's 55 years (1969-2024). Houston earned three degrees in mathematics: BA, Morehouse Coll (1964); MS, Clark Atlanta U./Atlanta U. (1966); and a PhD, Purdue U. (1974); {dissertation title: *"On the Theory of Fitting Classes in Certain Locally Finite Groups,"* Eugene Schenkman, Advisor}. Houston did additional study: U. of GA (Sum-1969) and L'Universite de Strasbourg (France), 1966-67. Houston received at least $12 million dollars in grants for support of scholarly activities; and has produced over 25 publications (at least 10 mathscinet), 6 books (some in English & French). Houston has given scores of scholarly presentations, as Invited Speaker, while traveling globally: 6 continents, over 70 different countries (25 in Africa), and in all 50 states in the USA. He taught, guided, mentored and/or encouraged hundreds of students at the BS and MS levels as they pursued the study of math (many succeeding in graduate school, several earning a PhD degree in math or science).

He was Advisor for over 20 MS theses, supervised over 40 undergraduates REUs while at ECSU (1984-2010), CAU/Atlanta U-Math Chair (1975-81), Ft. Valley St. U-Callaway Prof. CS (1981-84), Savannah St. U (1974-75), and Stillman Coll (1967-69), and while administering national programs for NAM and serving as Director of ECSU CSSVC-Computational Sc. Scientific Visualization Ctr., ECSU Global Leadership Academy, (GLA) and the ECSU-USAID-TLM-Program. Houston has provided financial support for hundreds of students pursuing scholarly work or traveling to scholarly meetings. He served as a Visiting Scientist at NASA Langley Research Ctr., Lawrence Livermore Nat'l Lab, and the Nat'l Ctr. for Atmospheric Research.

Houston's latest Research interests have been in Computational Science, Algebraic Structures, and the History of African American Mathematicians; with the latter, he has served as Chair of NAM's Historical and Archival Committee (HAC) since 2018. Houston is a Life member of NAM, AMS, SIAM, and MAA (Bd of Gov, 1992-95), and life member of the National Alumni Associations: Purdue U, Clark Atlanta U, Morehouse and ECSU (1986, Assoc. member). He has been an active member of NAM, AMS, MAA, SIAM, ACM, AWM, IEEE, ADMI (2nd VP, 1990-94), MSRI (HR Adv. Com, 1993-98), NC Supercomputer Ctr. (Adv. Com, 1994-2003), Purdue U Mathematical Sciences (Adv. Com. 1999-2002), NSF, NIH, and others.

Houston civic and ecumenical activities include EC-RCCDC, Bd Ch; EC-Airport Auth. Bd Ch; Soc Ser-Bd Ch; EC-PC Found Bd-V Ch. Houston's honors-awards-recognitions include a White House State Dinner Guest (Sept 2008), selected a Math-Science History-Maker (2013), and a Mathematically Gifted and Black Honoree (2018). He has two Named Lectures: the annual ECSU Johnny L. Houston Mathematical Sciences Lecture (2016) and Purdue annual Johnny L. Houston Mathematics Lecture (2023), Houston was 1st speaker for each. Houston received NAM's Lifetime Achievement Award (1999), NAM's Co-Founder Award (2019), and NAM's 2nd Legacy Award (2024); UNC Bd of Governor's Award for Teaching Excellence (1996), NC Governor's Award for Outstanding Vol. Service (1998), ECSU Chancellor Award (2004), presented the Prof C. B. Dansby Lecture and unveiled the Dansby Exhibit (Morehouse, 2010). Received the Purdue Black Cultural Center (BCC) Pioneer Award, 2009 (he was 1st Dir. of the BCC, 1972-73). Houston was lead adviser and a lead participant in the movie: Journeys of Black Mathematicians-JBM (2024), that was produced by George Csicsery (Zalafilms) and MSRI. In 1969, Houston married Virginia Lawrence, a Distinguished Educator from Macon, GA. They have two daughters: Mave T. Houston, PhD (Comp Sc) and Kaiulani M. Houston, PhD (Bio-Chem), MD. Houston was born 19 Nov 1941 (Sandersville, GA-USA), the youngest son of the late Mrs. Catherine Houston Vinson who would have been 100 in 2019.

2024 Joint Mathematics Meetings

By Zerotti Woods Ph.D.

Dr. Shelly Jones: Claytor-Woodard Lecture

The National Association of Mathematicians organized several sessions at the 2024 Joint Mathematics Meeting. This article serves as a summary of the sessions organized by NAM and sessions where NAM members were featured.

On Wednesday, January 3rd, NAM and SIAM held a joint mini-symposium on Quantitative Justice. Dr Omayra Ortega was an organizer of this event.

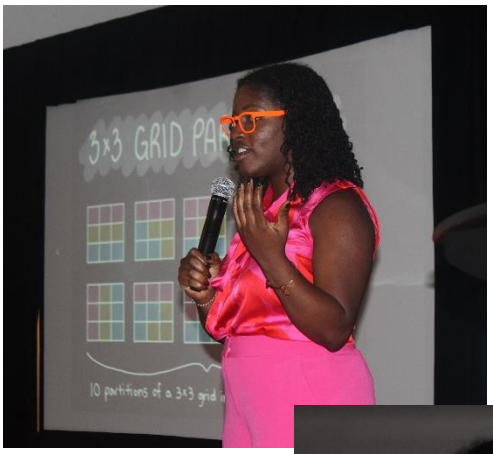
The Claytor-Woodard Lecture was given on Thursday, January 5th 2023 at 2:15 pm. Dr. Shelly Jones was the Speaker.

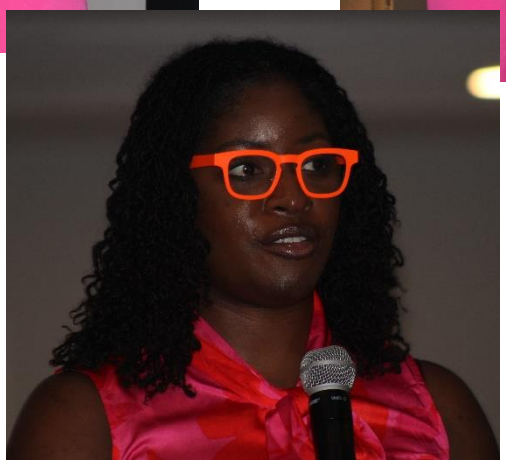
- Her work was entitled: *Choosing Hope: Teaching Culturally Relevant Mathematics as a Human Endeavor.*

The NAM Haynes-Granville-Browne Session of Presentations by Recent Recipients was given on Friday, January 5, 2023, at 8 am. The presenters were Dr. Harold Jimenez Polo (University of California, Irvine)-``A Goldbach theorem for Laurent polynomials with positive integer coefficients", Dr. Talon Johnson (University of Texas Southwestern Medical Center)-``A Novel Compressive Deconvolution Method with MRI Imaging Application", Dr. Felix M Pabon-Rodriguez (Indiana University School of Medicine) "Advancing Infectious Diseases Research via the Host-Pathogen Interplay", Dr. Yariana Diaz (Macalester College) "Total stability and Auslander-Reiten theory for Dynkin quivers", Dr. Raphiel J Murden (Rollins School of Public Health, Emory University) "Analyzing Data from Ambulatory Blood Pressure Monitoring", Dr. Shakuan Frankson (Howard University) "The Algebraic Structure of Double and k-Riordan Arrays", Dr. Tafari Clarke-James (The University of Washington) "No Homotopies in Real Closed Spaces", and Dr. Kayla D Davie (University of Maryland College Park) "Reduced basis techniques for parameterized partial differential equations with constraints".

The person that was awarded the best presentation was announced at the NAM Banquet that was held the night of Friday, January 5th. The winner was Dr. Felix M Pabon-Rodriguez.

At 6 pm on Friday, the NAM Reception and Banquet was held. During the banquet, Dr. Ranthony AC Edmonds delivered the Cox-Talbot Address. Her talk was entitled *Quantitative Justice: Intersections of Mathematics and Society*.





The legacy award was given to Dr. Johnny Houston. Among many accomplishments, Dr. Houston is a co-founder of NAM, served as the first active Executive Secretary, has served on the NAM board for 50 years and has been a life member of NAM for 55 years. He is a giant in the NAM community and this award was well-deserved and well-received.

On Saturday January 6th at 12 pm, NAM participated in the world premiere of "Journeys of Black Mathematicians" This was a work to begin the documentation of journey of many African American mathematicians. The film was created by George Csicsery. The film's reception was outstanding and the film crew looks to do continue with the project

The NAM events during JMM wrapped up with the NAM Business Meeting. In the meeting, NAM members had an open conversation with the NAM board members. They discussed NAM finances, recent NAM events, upcoming NAM events, and future vision plans for NAM.

Opening of NAM's Archives at Robert W. Woodruff Library and Research Center: Unveiling a Chronicle of Mathematical Excellence for Scholars & Posterity

The National Association of Mathematicians (NAM) was born of necessity because at that time, the existing national organizations for the mathematical sciences lacked diversity and were less supportive of the growth and success of mathematicians of color, especially African Americans. In 1969, seventeen mathematicians of color agreed that a space was needed to include, and recognize the efforts of, underrepresented scholars in the mathematical sciences. NAM was founded to promote the mathematical and professional development of underrepresented mathematicians, particularly African Americans. The founders aimed to establish awareness, command recognition and build the foundation of a non-profit international mathematical sciences organization of quality.

Members of HAC with the Assistant Director of the Archives Research Center of Woodruff Library

Left to right: Dr. Robert Bozeman, Dr. Sylvia Bozeman, Ms. Sarah Tanner, Dr. Alvina J. Atkinson, Dr. Lakeshia Legette Jones, and Dr. Johnny Houston

Through the years, NAM has accomplished much by way of creating a venue that supports and assists all who strive to learn mathematics and engage in scholarly activity in the mathematical

sciences. It has carved paths to give respect and to honor the work and achievements of notable mathematicians of color, especially African Americans. Its endeavors include the establishment of annually named lectures, and addresses, as well as four annual conferences/meetings, and quarterly publications. Each of these efforts has been made possible through the dedication of NAM's thriving Board of Directors, growing membership, and sincere supporters.
To capture decades of contributions and achievements, NAM established the Historical and Archival Committee (HAC) in 2019. The mission of HAC is to collect, curate, and disseminate historical records, photos of artifacts, and other print and visuals that showcase the achievements of mathematicians from underrepresented groups. By doing so, the committee aims to inspire future generations to have comprehensive understanding of the diversity of mathematical accomplishments by various groups.

The objectives of HAC include:

1. Archival Preservation: Establishing a comprehensive archival system to safeguard documents, photographs, and other materials that highlight the historical journey of mathematicians within the NAM community.
2. Oral Histories: Conducting interviews and collecting oral histories from esteemed mathematicians, capturing their personal experiences, challenges, and triumphs, to create a living tapestry of the mathematical journey.
3. Educational Outreach: Developing educational resources that showcase the contributions of mathematicians from diverse backgrounds, fostering a more inclusive and representative narrative in mathematical history.
4. Acquire materials and establish Print and Digital Collections on notable mathematicians of color, especially Africans to preserve their contributions to inspire future generations to be their own success stories by adding to the rich history of mathematical achievements within the NAM community and ensuring that these notables are accessible to a wide audience.

Members of HAC who met with Woodruff staff during the Opening of NAM's Archives
Left to right: Dr. Sylvia Bozeman, Dr. Duane Cooper, Dr. Lakeshia Legette Jones, Dr. Johnny L. Houston, Dr. Alvina J. Atkinson, Dr. Robert Bozeman, and Dr. Aris Winger

The creation of HAC marks a pivotal moment in the organization's commitment to ensuring that its vibrant history continues to be documented and honored. In 2023, under the presidency of Omayra Ortega and the leadership of HAC's Chair, Johnny L. Houston, the committee opened NAM's Archives to the public at the Atlanta University Center (AUC) Robert W. Woodruff Library and Research Center which is the official repository of NAM historical records and archives. The repository will include both print and digital collections, preserving such materials as NAM newsletters, programs, books, photos, research papers, news articles, other documents, Once fully established, the NAM Archives at Woodruff will also contain a robust audio and video collections on African American mathematicians.

On May 18, 2023, HAC committee members met at Woodruff with Ms. Sarah Tanner, Assistant Director of the Archives Research Center to discuss the plans of opening the NAM archives to the public. Then the committee reconvened at Woodruff on September 22, 2023, during the NAM Undergraduate MATHFest, hosted by Clark Atlanta University, for the "Official Opening" of NAM's Archives to the public. Present at the opening were some members of the NAM's Executive Committee from NAM's Board, along with Ms. Tiffany Atwater Lee, Archives Research Center Head of Research Services, and Ms. Amber Moore, Archives Research Center Head of Processing, shared some initial items of the NAM Archives at Woodruff. They also explained the process of archiving materials and presented a view of archived materials from submission to processing to access by the public. They gave a virtual tour of the Archive Research Center and provided in great details the Center's ability to collect, preserve, and restore

archival materials. They explained emergency protocols and the measures that are in place to protect all materials submitted. Ms. Atwater Lee also discussed their practice of working with course instructors to create projects and classes to assist students in navigating the resources. The NAM Archives will contain both a print and a digital collection. The physical print collections will be accessible by appointment and the digital collection will be available through the AUC Robert W. Woodruff Library's Repository of AUC Digital Collections, Archives, and Research (RADAR).

The current members of NAM HAC are Dr. Aris Winger (Executive Director of NAM and Assistant Professor of Mathematics, Georgia Gwinnett College), Dr. Duane Cooper (NAM Member and Associate Professor of Mathematics, Morehouse College), Dr. Brett Jefferson (NAM Board Member and Data Scientist, Pacific Northwest National Laboratory), Dr. Alvina J. Atkinson (NAM Board Member and Professor of Mathematics, Georgia Gwinnett College), Dr. Sylvia Bozeman (NAM member and Professor Emerita of Mathematics, Spelman College), Dr. Robert Bozeman (NAM member and retired Professor of Mathematics, Morehouse College), Dr. Lakeshia Legette Jones (NAM member and Associate Professor of Mathematics, Clark Atlanta University), and Dr. Johnny L. Houston (Co-founder of NAM, NAM Historian, and Professor Emeritus, Elizabeth City State University).

AUC Robert W. Woodruff Library Archive Research Center Staff
Amber Moore, Head of Processing (Left) and Tiffany Atwater Lee, Head of Research Services (Right)

Legacy of John Arthur Jones (1961 2023)

J. Arthur Jones was born February 18, 1938 in Greenville, SC. He passed December 16, 2022 with Services on January 7, 2023. At an early age, he realized that expertise in the field of mathematics was not only a viable resource that could be used in one's daily life but also a path to boundless opportunities. Throughout grade school, undergraduate and graduate schools, he studied all areas of mathematics and was inspired by the challenges which they brought. Jones used his skills to help motivate and challenge others to excel in the subject of mathematics. Jones graduated from Greenville's Sterling High School and Lincoln University-Philadelphia, one of the country's first African American liberal arts schools. He earned his MA degree in mathematics from Pennsylvania St. U. (1961) and a PhD in math education from the same university in 1965.

He has spent his later years as a Senior Associate for the Quality Education of Minorities (QEM) Network in Washington, DC, where he provided leadership to numerous national efforts to motivate and assist minority students at all academic levels to seek careers in mathematics and engineering. He was also a leader in the QEM Technical Assistance Project, supported by the National Science Foundation (NSF). This program assisted 19 states (including SC) in formulating statewide action plans to augment their number of minorities earning undergraduate-graduate degrees. Jones worked for math all his life.

Before joining that staff in 1995, he was Director of the Office of Equity and Diversity for the National Research Council, a role which he also had with the Mathematical Sciences Education Board (MSEB) from 1992 to 1994. In 1989 he had been appointed by the President of the National Academy of Sciences as chair of the Steering Committee for the MSEB project: "Making Mathematics Work for Minorities." The same year, he founded Futura Technologies, Inc. to support new methods in education via technology. This company skillfully designed mathematical materials for teachers, students, and parents. Jones' experience in research planning and methodology, program analysis and evaluation, policy analysis, budgeting, mathematical applications, and mathematics and science education projects span over a period of 30 years, including 14 years of service with the NSF as a senior program analyst for the Mathematical and Physical Sciences and as head of the Program Analysis Office. This brilliant mathematician is the author of five books in the Math Vision series which stresses hands-on activities for teachers and students. His many papers on "The Mathematics and Science of Basketball" have motivated many young people to learn mathematical and scientific concepts through the sport of basketball. Between 1967 and 1972, he was a professor and chair of the Department of Mathematics at Florida A & M University. He has received many honors and recognitions for his work with children and schools. He is also the founder and director of the School-Home Alliance for Revitalized Education (SHARE), which links cooperative activities between schools and communities to enhance quality education. J. Arthur Jones gave NAM's first Cox-Talbot Address (1980) and helped NAM often.

Submitted by Johnny L. Houston, Chair of NAM's Historical and Archives Committee (HAC)

Legacy of Kenneth L. Jones (1961 2023)

Kenneth Lee Jones was born February 16, 1961, to Abraham and Cora Price Jones. And departed this life on April 4, 2023. He was a 1979 graduate of Hobbton High School in Clinton, NC. He earned a BS degree in Chemistry and Mathematics with a minor in physics in 1982 and a Master's in Science Education in 1988, both from Campbell University. He later went on to earn a PhD degree in applied mathematics with a minor in applied statistics at American University where he studied the Existence the of periodic Traveling Wave Solutions in Partial Differential Equations. Dr. Jones also received a Master's of Engineering in Electrical and Computer Engineering from NC State University in 2006 and an MBA in Computer Information Systems from Strayer University in 2012. He recently returned to college and received a MS in Data Science and Engineering from NC A&T State University on December 9, 2022.

Dr Jones began his teaching career in 1982 as a mathematics and science teacher at Midway High School in Clinton, NC. He later taught at Sampson Community

College as an instructor of Related Subjects from 1983-1991 and as an instructor of mathematics at Fayetteville State University from 1991 – 1994. While in graduate school at American University in Washington, DC, Dr. Jones worked as a Resource Mathematics Teacher at Anthony B. Hyde Elementary School and served as a Visiting Assistant Professor at the of the District of Columbia University, Howard University and American University.

Dr. Jones returned to FSU in 1997 as an Assistant Professor and later served as Chair of the Department of Mathematics and Computer Science from 1999 -2001. Next, he served Chair of the Department of Mathematics and Engineering from 2001 – 2006 and later served as Dean of the Division of Natural Science and Mathematics at St. Augustine College. Dr. Jones also served as an adjunct professor at numerous including Shaw University, Strayer University, UNC Charlotte, Tidewater Community College and St. Leo University. His career included professional involvement; he was an active member with NAM

Dr. Jones joined Elizabeth City State University (ECSU) in 2010 as a Professor of Mathematics. At ECSU he served as a Graduate Professor and as Coordinator of the MS Graduate Program in mathematics. At ECSU Dr. Jones also served as Chair of the Department of Mathematics, Computer Science, and Technology from 2016 – 2021. Dr. Jones served as thesis advisor for some 15 graduate students and was a thesis committee member for over 30 graduate students. Dr. Jones served as a mentor for many undergraduate students. He would accompany students to NAM's Undergraduate MATHFest, accompany students to other student scholarly, activities as well as invite speakers to the department to inspire, encourage and motivate students to reach their highest potentials. Moreover, he dedicated his time and energy to sharing his time and talents beyond the campus with those who desired and accepted help in mathematics.

Submitted by Johnny L. Houston, Chair of NAM's Historical and Archives Committee (HAC)

Job Openings

Dean of the School of Computer Science and Mathematics

Marist College seeks a dynamic and visionary dean for its School of Computer Science and Mathematics. The dean is the chief academic and administrative officer of a school comprising two departments, 30 full-time faculty, 36 part-time faculty, 4 full-time staff, 450 undergraduate majors and 255 graduate students. The mission of the School of Computer Science and Mathematics is to prepare students to live and work in a technology-driven, rapidly changing world. The School provides broad-based mathematical and technological education within the context of a solid liberal arts foundation, preparing undergraduates and graduates for success in a broad range of fields.

About Marist

Marist College is an institution on the rise. The College has new presidential and academic leadership; a newly launched and ambitious strategic plan that will carry Marist up to and through its centennial celebration in 2029; modern new teaching facilities; and consistent accolades for academic excellence.

Marist offers the power and resources of a global university delivered with the care and personal attention of a mid-sized liberal arts college. The College provides top-rated academics, world- class facilities, and a vibrant and inclusive culture to help students unlock their full potential. The College educates 5,475 traditional undergraduate students, 989 graduate students, 248 adult continuing education students, and 466 high school students who take Marist courses for credit. These students come from 44 different states and 52 different countries, making Marist a lively and diverse community of students and scholars.

Opportunity

Marist seeks a dean with excellent communication skills; a naturally respectful, collaborative, and accessible leadership style; a deep commitment to the mission and values of the College; and an understanding of current trends and challenges in higher education. Demonstrated leadership experience and sound organizational management experience are essential qualifications for the position.

The next dean of the School of Computer Science and Mathematics will leverage Marist's unique academic profile; beautiful campus; solid financial position; dedicated Advisory Board; and highly engaged community of students, faculty, staff, and alumni, to continue to build on the School's positive trajectory. The dean will have the opportunity to work with talented faculty and the resources of the School to advance the College's strategic academic goals.

Nominations and Applications

A complete position profile with instructions for application may be found at https://www.agbsearch.com/active-searches. Additional information about Marist can be found here: https://www.marist.edu.

The Search Committee will begin a review of applications in the coming weeks and continue to work until an appointment is made. To assure full consideration, application materials should be received by January 15, 2024.

Please click here [bit.ly/3St4XDc] to apply for the position. Should you have any questions or encounter any difficulties with the application process, please contact MaristDeanCSM@agbsearch.com.

Nominations and expressions of interest in the Dean of the School of Computer Science and Mathematics position are encouraged. Please direct them to: MaristDeanCSM@agbsearch.com.

Appalachian State University in Boone North Carolina Mathematical Sciences

The Mathematical Sciences Department at Appalachian State University in Boone North Carolina is seeking applicants for a number of positions at the assistant or associate professor level to begin in August 2024. Applicants specializing in mathematics, mathematics education, or actuarial science are encouraged to apply. For more information see: https://mathsci.appstate.edu/faculty-searches. Appalachian State University is an Affirmative Action/Equal Opportunity Employer.

Non-tenure-track Position in Mathematics/Statistics

The Division of Science & Engineering at Penn State University Abington College seeks a full-time, non-tenure-track Assistant Teaching Professor/Lecturer of Mathematics or Statistics. This position is a nine-month appointment, starting August 2024, and comes with excellent fringe benefits that include retirement plans, health, dental, vision, and prescription drug insurance, reduced tuition rates for dependents, and optional long-term disability insurance. The review process will begin November 30, 2023 and continue until the position is filled.

Candidates must have either an earned doctorate or master's degree in Mathematics, Statistics or related field by August 1, 2024 as well as least 18 months experience teaching mathematics or statistics courses at the university level.

The successful candidate will be expected to 1) teach twelve (12) contact hours per semester; 2) advise majors related to their discipline; and 3) provide service to the Division and College. Additionally, the successful candidate will be expected to teach students from diverse ethnic, racial, and socio-economic backgrounds and foster student success through engagement both inside and outside the classroom.

Applicants should submit 1) a cover letter; 2) a curriculum vitae, including the names and contact information of at least three references; 3) a list of courses taught at the university level; and 4) a statement on their experience with and teaching pedagogy for addressing the learning needs of diverse and first-generation students in higher education.

Penn State Abington is a thriving four-year college of The Pennsylvania State University and is conveniently located on a picturesque suburban campus near Philadelphia (a virtual tour can be found at www.youvisit.com/tour/abington?plv). Penn State Abington serves racially- and ethnically-diverse students, first-generation college students, students from a range of socio-economic backgrounds, and a significant international student population. For more information about the college, visit http://www.abington.psu.edu.

Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce. It is also committed to and accountable for advancing diversity, equity, inclusion, and sustainability in all of its forms. To learn more about our institutional commitment to diversity, equity and inclusion, please visit here: http://equity.psu.edu/diversity-statement.

Employment with the University will require successful completion of background check(s) in accordance with University policies.

Apply online at https://apptrkr.com/4760818

CAMPUS SECURITY CRIME STATISTICS: For more about safety at Penn State, and to review the Annual Security Report which contains information about crime statistics and other safety and security matters, please go to http://www.police.psu.edu/clery/, which will also provide you with detail on how to request a hard copy of the Annual Security Report.

Penn State is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to all qualified applicants without regard to race, color, religion, age, sex, sexual orientation, gender identity, national origin, disability or protected veteran status.

Comparative Prime Number Theory Symposium (CPNTS)

We are happy to announce the Comparative Prime Number Theory Symposium (CPNTS), to be held in hybrid format at the University of British Columbia in Vancouver from June 17–21, 2024. CPNTS will bring together many leading and early-career researchers with expertise and interest in Comparative Prime Number Theory to present and discuss various aspects of current research in the field, with special emphasis on results pertaining to the distribution of counting functions in number theory and zeros of L-functions, consequences of quantitative Linear Independence, oscillations of the Mertens sum, and the frequency of sign changes.

More information about the symposium can be found at:
https://sites.google.com/view/crgl-functions/comparative-prime-number-theory-symposium

Applicants interested in financial support or giving a talk should complete this application form before January 31, 2024. The registration form can be found at:
https://docs.google.com/forms/d/1cAHslWXmzbgPKAXwpkogjGfzTfTunjnuNXvmvsBuPIY/

NAM Board of Directors

Region A
Southeast/West
Alabama
Georgia
South Carolina
Florida
Virgin Islands
Puerto Rico
California
Montana
Any state not in B or C

Region B
Mid-Atlantic
Delaware
District of Columbia
Kentucky
Maryland
New Jersey
New York
North Carolina
Pennsylvania
Virginia
West Virginia

Region C
Midwest/Southwest
Arkansas
Louisiana
Missouri
Oklahoma
Illinois
Ohio
Mississippi
Tennessee
Texas

National Association of Mathematicians
c/o Dr. Zerotti Woods, Editor
National Association of Mathematicians
2870 Peachtree Rd NW #915-8152
Atlanta, GA 30305

ADDRESS SERVICE REQUESTED

Winter 2023