



Newsletter

Volume XLVIII

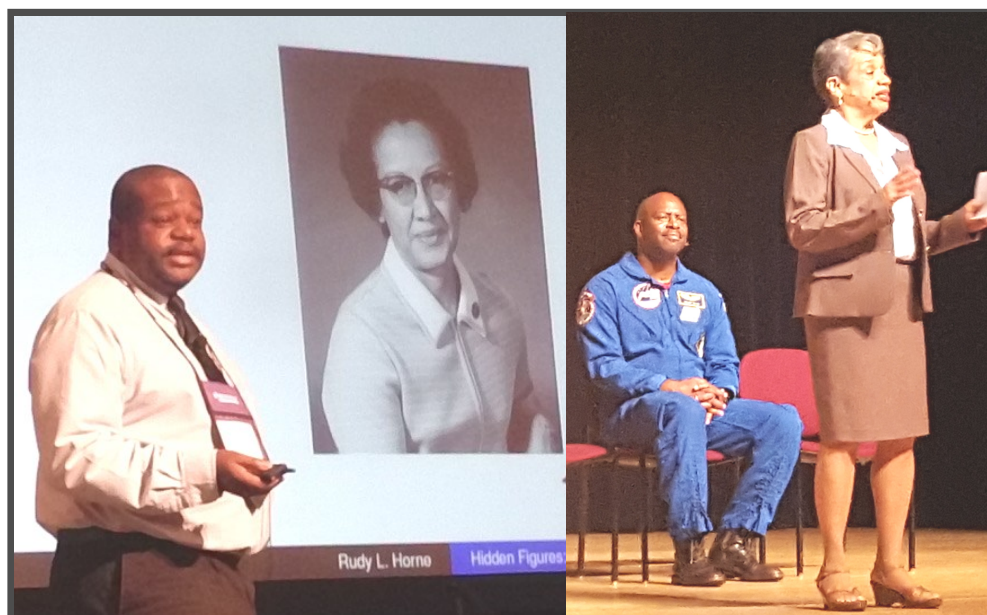
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Fall 2017

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Math "Pop"



Rudy Horne (Morehouse College), shown left, gave the NAM David Harold Blackwell Lecture at the summer MAA MathFest on "Hidden Figures: My Role as Math Consultant." Horne, advisor for the movie "Hidden Figures," shared stories of Katharine Johnson at NASA and how he inspired the "Hidden Figures" movie. Christine Darden, shown right, was a scientist featured in the "Hidden Figures" book. Darden and Leland Melvin, a retired astronaut and National Football League draftee, gave keynote presentations at the National Technical Association Conference held at Morgan State University.

The National Association of Mathematicians (NAM)

publishes the NAM Newsletter four times per year.

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NAM Newsletter Website: <http://nam-newsletter.org>
The 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.

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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.

From the Editor

This past fall I had the honor of enrolling my eldest child as a computer science major at Howard University. While waiting in line to get into the dorm, an elderly lady bluntly blurted out, "I don't care how good they look, don't put these boys before the Lord or your books." I was immediately thrown back to my Spelman days where the elders would forcefully give unsolicited advice on attire, walk, and what we should and should not do. Moments such as these cover my worry with calm, because as our children walk the STEM walk, the elders will provide the necessary protection. After all, it takes a village to raise a child.

We begin our Newsletter honoring the Claude Dansby who was known as "Pop Dansby" due to the care and high standards he bestowed on the men of Morehouse (page 3). We also honor the life of Arthur Grainger and his grand influences throughout our community (page 4). Scott Williams expresses his admiration for his former classmate, Grainger, through poetry (page 4). Elaine Terry looks towards developing the next mathematicians by giving high schoolers mathematical inspirations (page 5). We are reminded by Jackie Giles that we should expect and be in search of the "more" in mathematics, our students, and ourselves (page 5). Jonathan Esole becomes an uprising leader in mathematics as a prestigious Fellow of the Next Einstein Forum (page 6). Torina Lewis shows us all how to be an exemplar of achieving esteemed scholarship in the classroom and actively engaging as a campus leader (page

7). To continue supporting future generations of mathematicians, we are all called to action to take part in the NAM Golden Anniversary Campaign (page 7). It is through this Campaign that we will secure our future. Rudy Horne reminded us at the summer MAA MathFest to stay unhidden so that others may aspire to achieve diversity in all levels of mathematics (page 8). As we traverse the summer mathematical circuits, we inspire, uplift and motivate each other to pursue excellence (page 9). We will continue our travels at the 2018 Joint Mathematics Meetings in San Diego (page 10). As we seek new experiences, we find a myriad of employment opportunities (page 11). We look to shaping the future leadership of NAM through the upcoming elections (page 12).

So as we continue to do the good work, and be the math "moms" and "pops" who guide our young and old, we can be rest-assured that we are not alone in our journey. It is through our circuit that we share energies, experiences, theorems and proofs, and in this synergy, we uplift an entire mathematical community.

Enjoy!



Talitha Washington



Claude Dansby: Legendary Mathematics Professor at Morehouse College

Johnny Houston



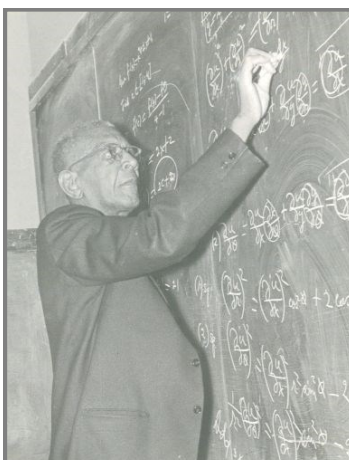
Claude Dansby

With the arrival of the year 2017, Morehouse College has been in existence for 150 years (1867-2017) as a dynamic and expanding institution, especially in STEM areas. During this Sesquicentennial period of longevity, the college has been fortunate to have had many distinguished men to matriculate as students and many impressive persons to take positions of employment, especially professors. Over the years the

impacts of many of these outstanding students and valuable professors have had various levels of influence. As time moved forward, some of these names drifted into anonymity. However, the mathematics student, Claude B. Dansby and the employee, Prof. Claude B. “Pop” Dansby reached such exceptional heights in the first 150 years of Morehouse Legacy that the name Dansby will forever be recognized if the true and comprehensive story of mathematics at Morehouse College is told.

Claude B. Dansby immortalized his personhood and his mathematical contributions during the half century plus years that he was at Morehouse College. It was my good fortunate to have been one of his mathematics students for four years (1960-1964). This article is written to share some insights about Claude B. Dansby and mathematics at Morehouse during “The Dansby Era: (1917 -1967)” as well as enlighten the reader on mathematics at Morehouse College during the “Pre – Dansby Era (1867-1917) and the Post – Dansby Era (1967-2017).

It is the writer’s belief that the prominence of mathematics at Morehouse College today has its firm foundation on the contributions of the Legendary Mathematics Professor Claude B. “Pop” Dansby (1889 – 1992) who devoted more than a half century of his life and practically all of his professional employment at



Morehouse College. In the Pre-Dansby Era, mathematics at Morehouse was “Comprehensive Arithmetic” in the Post Dansby Era, the Mathematics Department at Morehouse received (in 2016) the prestigious America Mathematical Society (AMS) “Making the Difference Award,” the first HBCU to receive the award. Prof. Claude B. Dansby (B.S., Morehouse; M.S.

University of Chicago) was one of the most outstanding students and faculty in the history of Morehouse College.

As a student, he learned quickly and easily; as a teacher, he was a master of his craft and a great communicator who opened doors in mathematics for all of his students, propelling some to their highest heights (10 of his students earned the PhD degree in mathematics). It was said of Professor Dansby that he taught with such clarity and motivation that he could make complicated mathematics so simple that if a “wayfaring fool” accidentally wandered into his classes, he would understand the mathematics being presented.

The annals of history proved that he was legendary. He took weak students and made them average; he took average students and made them superior; and he took superior students and made them exceptional. First, he taught with enthusiasm and great clarity; secondly, he went beyond the “Call of Duty” to assist students who wanted to learn; thirdly, he challenged his students to be the “Best” we could be; finally, he exhibited, as a professional and as an educator, the kind of attributes of the teacher - scholar, that president Mays articulated in our Class Charge and challenged those of us who chose to teach:

“Be so knowledgeable in what you teach, so devoted to your students, so inspiring in your teaching, and so stimulating in your writing that your students will say of you, ‘He was Born to Teach’.”

Professor Dansby and Morehouse President Benjamin E. Mays both began their professional careers at Morehouse together in the early 1920’s; both retired from Morehouse the same year, 1967. Today (2017), fifty (50) years after his/their retirement(s), mathematics at Morehouse College is taught in Dansby Hall and Mays Hall (erected next to Dansby Hall). Dozens of Morehouse mathematics alumni have earned PhD degrees in mathematics and thousands of Prof. Dansby’s mathematics students have become successful alumni of Morehouse College.

What greater Legacy can one have than that of successfully teaching mathematics to our youth.

Johnny Houston is Professor Emeritus at Elizabeth City State University and was NAM’s first Executive Secretary (1975-2000) and served with several NAM Presidents. He can be contacted at: jlhouston602@gmail.com. This is a synopsis of a presentation made by Johnny L. Houston at the 2017 NAM’s Faculty Conference on Research and Teaching Excellence (held at Morehouse College in Atlanta, GA on March 24 -25, 2017) .



Johnny Houston



In Memoriam: Arthur D. Grainger (1942-2017)

Asamoah Nkwanta



Arthur Grainger

Arthur D. Grainger, former interim chairman and retired Associate Professor of Mathematics of Morgan State University, passed on March 28, 2017. On August 26, 2017, The Grainger Family and the Department of Mathematics at Morgan State University hosted a remembrance luncheon for Grainger which celebrated his mathematical passions and impact.

Grainger was born in Chadbourn, North Carolina on December 8, 1942, and grew up in Baltimore, Maryland. He earned a BS degree in Mathematics from Morgan State College in 1964. He honored Morgan State College for being in the news media as one of the famous "Seven Morgan State College Students to Excel in the National Graduate Exam." He interrupted his graduate studies while attending the University of Maryland at College Park to be employed as a mathematician for the Defense Mapping Agency. While working at the agency, he resumed his graduate work at the University of Maryland and obtained an MS degree in Mathematics in 1969. In 1974, he obtained his PhD in Mathematics.

After leaving his position as the Technical Department Head at AT&T Bell Laboratories, Grainger pursued his

academic career in 1969 as an associate professor of Mathematics at Morgan State College. He served as the Department of Mathematics interim chairman for Morgan State from 1993 to 2001. In 1993, Grainger made a major contribution to his alma mater by serving as co-investigator to obtain a National Security Agency (NSA) grant for approximately \$250,000 to install a MATH Laboratory in the department. In 2002, he received a special 60th celebration from the Conference for African American Researchers in the Mathematical Sciences (CAARMS). In 2014, at the Joint Mathematics Meeting held in Baltimore, he was honored as the National Association of Mathematicians (NAM) Claytor-Woodard Lecturer and he also received NAM's Lifetime Achievement Award. He continued to serve Morgan as an Associate Professor until he retired in 2015. After his retirement, Grainger continued to do research, which was his passion.

Grainger is survived by his wife, Patricia; his son, Lawrence; one sister, Joyce Underdo; three brothers, Glenn, Gary, Gregory, and their families, as well as a host of colleagues and friends.

Asamoah Nkwanta is Chair and Professor of the Department of Mathematics at Morgan State University. He can be reached at Asamoah.Nkwanta@morgan.edu



Asamoah Nkwanta

Grainger Memorial Poem

Scott Williams

With pure innocence from high school,
Art, along with Earl and then Scott
found competition at Morgan State
helping each other understand complex
concepts their teachers taught.

The three began as competitors
With a pure love of mathematics.
Through Calculus they grew as colleagues.
Art spoke of texts of Churchill, Herstein and others.
And a basic love of pure mathematics.

Whether their teachers were competitors
Or their teachings aided the three's success,
the three re-born as competitors
with pure love of mathematics in place.
They re-booted well-armed for PhD studies.

Natural metamorphoses caused divergence.
The love of the field was pure not all
chose a path of pure mathematics.
But Art's ultra-filtered attractions drew
him to Logic and Topology and Algebra.

In the end all three Art, Earl and Scott
became teachers of mathematics.
Under Art's persistence, Morgan shone



Left to right: Earl Barnes, Scott Williams, and Arthur Grainger, former classmates at Morgan State University

While still seeing mathematics' depths.
When the three came together, one sensed
Pure love of mathematics was in place.

Now Art, sadly, has gone too soon,
And though another has defected,
the three remain still glued to Morgan
by a pure love of mathematics.
For teachers of mathematics

Scott Williams was a Professor Emeritus of Mathematics at SUNY Buffalo and the former Editor of NAM. He is now an active poet. He can be reached at bonvibre@yahoo.com



Saint Joseph University's Ignatian College Connection



Elaine Terry

On June 26, 2017, forty-two high school students from the Philadelphia area and Camden, New Jersey came to Saint Joseph's University to participate in the four-week Ignatian College Connection (ICC) Enrichment Program. Sponsored by the University's Office of Diversity and Inclusion, the program offers highly motivated and talented high school juniors and seniors the opportunity to enroll in three out of ten four-week courses taught by college professors and graduate students. Ten of the forty-two participants chose to enroll in the mathematics course taught by Dr. Elaine Terry, Assistant Professor of Mathematics. For the past eight years, Terry has been successful in exposing ICC math students with differing backgrounds to various concepts in mathematics, including data analysis and linear regression, exponential and logarithmic functions, Pascal's triangle and fractal geometry.

This year's course was entitled *Hidden Figures: Human Computing, Analytic Geometry and the Race to Space*. The first two days of the course were devoted to watching the movie *Hidden Figures*, followed by a written assignment with questions about each of the women in the



movie and their contribution to the space program. For the remaining days, there were seventy-five minute classes with fifty minutes devoted to lecture and the remaining twenty-five minutes set aside for working on homework assignments. Topics that are applicable to space related concepts were covered including scientific notation, quadratic functions, distance and midpoint formulas and the conic sections, parabolas and ellipses.

One day was set aside to inform students about STEM careers as well as careers in business that requires quantitative skills. Time was set aside to inform the students about the advantages of taking calculus in high school as



Ignatian College Connection Mathematics Students

well as the disadvantages of not doing so. Past editions of calculus textbooks were given to the students; they were advised to take time to look through the books to get an idea of what calculus is about. They were encouraged to enroll in a calculus course before entering college either at their high school or at a community college.

During the final week of the class, students worked in groups of two or three on projects in preparation for the closing showcase program. There were four PowerPoint presentations: 1) Hidden Figures: The Movie, 2) Projectile Motion and the Vomit Comet, 3) Parabolas and the Hubble Space Telescope, and 4) The Elliptical Orbit of Halley's Comet. In addition to the presentations at the closing program, certificates were awarded to three students who earned the highest average on the five homework assignments.

Terry says that, "Most of the students that enroll in the program are from underrepresented or underserved backgrounds. Many are the first to attend college in their family. My aim is to empower them with the skills and confidence needed for future success in STEM careers or in careers that require strong quantitative skills. It is my hope that they see me as a role model, especially the women. My mantra to the students is the same every summer: the way to learn mathematics is by doing mathematics."

Elaine Terry is an Assistant Professor of Mathematics at St. Joeseph's University. She can be reached at terry@sju.edu.

Extending Algebraic Representations: There is Always More!

Jacqueline Brannon Giles

It is important to expand the contextual sphere of discussions in lower-level mathematics classes in order to inspire students to do research and to become lifelong learners in STEM in the 21st century. Creating awareness inspires deeper discussions of mathematics, even at the two-year college level and in basic high school classes. Students should always leave our classes saying: "There is always more!"

In the 21st century, a deeper understanding of mathe-

tics allows one to use its language to communicate, understand, interpret, and extend our knowledge. Historically, this has been done and there is a need for more diversity of partakers in the discussion.

Rene Descartes was an atomistic thinker with the capability of designing a way for us to visualize symbolic representations. He defined a product of sets which is also



Jacqueline Brannon Giles



called the Cartesian Product. Consider a discrete finite set of points. Note that a discrete finite set has a countable domain and a countable range. By definition of countability, the elements of a set can be placed in a one to one correspondence with the set of natural numbers, then the set is countable. There are countable finite sets, and there are countably infinite sets.

To go deeper into the discussion, let us consider an uncountable set, the real numbers. If we set up the cross product, $\mathbb{R} \times \mathbb{R}$, then we cannot use the roster method to list all of the ordered pairs derived and contained in the space $\mathbb{R} \times \mathbb{R}$. We call $\mathbb{R} \times \mathbb{R}$ the real coordinate plane. Hence, can represent the two-dimensional space using two lines, with the assumption of linearity and orthogonality. These assumptions introduce error in our representation of a portion of our reality, but at least it gives us a core understanding of algebraic representation. Clearly, many mathematicians have given us a way to move from symbolic mathematical representation to visual mathematical representation.

We can visualize relations and functions by plotting points named by ordered pairs. For a given function or relation, remember that the ordered pairs are a subset of the Cartesian product. For example, if we were to graph $y = x$, we set up a table of values. We select input values from the domain of the identity function, and then we see that whatever value we have for x is also the value for y . Next, we plot points such as (1,1), (2,2), (-1,-1) and so forth.

During the first lecture in a class at a university, a professor emphasizes, "There is always more." The professor displays the set theoretic relationship between the various numbers, both known and unknown to the young scholars.

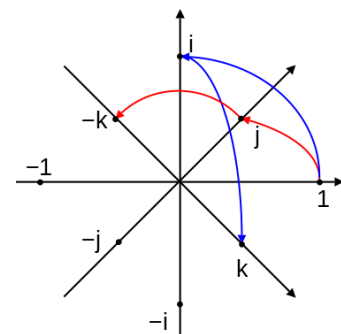
The natural numbers are contained in the whole numbers. The whole numbers are contained in the integers. The integers are contained in the rational numbers. The rational numbers are contained in the real numbers. The real numbers are contained in the complex numbers. *Is that all?*

$$N \subset W \subset Z \subset Q \subset R \subset C \subset H \longrightarrow$$

Complex numbers are expressed as $a + bi$ or where a and b are real numbers. Quaternions are 8-tuples and be represented as $a + bi + cj + dk$ where $a, b, c,$ and d are real numbers, and $i, j,$ and k are the fundamental quaternion units where

$$i^2 = j^2 = k^2 = ijk = -1.$$

Shown right is a "graphical representation of these quaternion units" taken from <https://en.wikipedia.org/wiki/Quaternion>.



Is that all? Well, then we have the set of octonions and then the the sedenions.

Clearly, the extensions to higher dimensions continue ad infinitum. It is our hope, as teachers, that each student's intellect will also extend to higher dimensions continue ad infinitum because there is always more.

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*Jacqueline Brannon Giles is a Professor of Mathematics at Houston Community College and is the NAM Board of Directors Region C Representative. She can be reached at [jbgiles@yahoo.com](mailto:jbgiles@yahoo.com).*

## Jonathan Esole Named 2017-2019 Next Einstein Forum Fellow

Jonathan Mboyo Esole, assistant professor of Mathematics at Northeastern University, was recently named a Fellow of the Next Einstein Forum (NEF, <http://nef.org>). The NEF Fellows is a select programme that recognizes Africa's best young scientists and technologists. These innovators and emerging leaders will have two main opportunities as a NEF Fellow.

First, participating in this program will advance their scientific career. NEF Fellows have a unique platform to: Present their work at the NEF Global Gathering in the presence of leading scientists, journalists, industries and business people from around the world; Gain exposure to a global audience of approximately 100 million viewers and readers worldwide; Draw upon the vast networks of NEF members and participants for support, connections, and counsel to advance their work; and Develop mentoring relationships with leading scientists, policymakers, industry representatives and civil-society leaders.

Second, this program inspires the next generation of African innovators. NEF Fellows participate in campaigns and events to encourage young people to pursue scientific careers.

Esole is one of 16 NEF Fellows announced for 2017-2019. Esole was born in Kinshasa, in the Democratic Republic of Congo (DRC). In September 2016, he joined the Department of Mathematics of Northeastern University where he is on fast track for tenure. His research is in String Geometry, and is supported by a grant from the US National Science Foundation (NSF).

Esole studies the geometry of elliptic fibrations as seen from the point of view of string theory. Elliptic curves are some of the oldest, and most prominent objects across mathematics with applications in number theory, algebraic geometry, cryptography and more. His research has direct applications to gauge theories, Grand Unified Theories, and the study of topological defects in conformal field theories. While at Harvard University, he introduced a new topological invariant, known as the orientifold Euler characteristic, which is now used daily by physicists working in F-theory. Esole has also solved problems in supergravity open for more than twenty years.



Jonathan Mboyo Esole



## Torina Lewis Receives Clark Atlanta's Vulcan Teaching Excellence Award

In August, Clark Atlanta University (CAU) President Ronald A. Johnson presented the 2017 Vulcan Teaching Excellence Award to Torina D. Lewis, Ph.D., assistant professor in the Department of Mathematics. The prestigious award is given annually by the Vulcan Materials Co., through the Georgia Independent College Association, to the faculty member who demonstrates strong scholarship in the classroom while providing leadership and support in other areas of campus life.

CAU President Ronald A. Johnson says, "Dr. Lewis's effectiveness in the classroom is a shining example of the caliber of instruction and the level of challenge that students can expect at Clark Atlanta. Her passion and enthusiasm give depth and hue to the University's culture and are an essential building block in creating our global pipeline of scholarship, discovery, innovation and entrepreneurship." In addition to mentoring the student winner of the University's 2017 Undergraduate Research Symposium, junior Latonya Beverly, Lewis also is the recipient of CAU's Aldridge-McMillan Award for Excellence in Teaching.

Lewis says her love for teaching and mentoring students derives from her own journey. Her grandmother, who reared her in the absence of her mother, was killed by her uncle. She channeled her loss into major achievements.



Torina Lewis

In 2003, she earned the B.A. in general studies from Southern University in New Orleans, followed by the M.S. in mathematics from Southern University in Baton Rouge, La., in 2006. She earned the Ph.D. in mathematics from the University of Mississippi in 2010. From 1999 to 2011, she served as a member of the Army National Guard, attaining ranks of increasing responsibility, including chemical officer, battalion training officer and battalion personnel officer. Upon completion of her doctorate in 2010, Lewis joined the faculty of Bethune-Cookman University as a tenure-track assistant professor. She then served as a visiting assistant professor of math at the University of Mississippi. She joined Clark Atlanta's math faculty as a tenure track assistant professor in 2013.

Lewis is a member of the Honor Society of Phi Kappa Phi Honor Society, Gamma Beta Phi Honors Society, Pi Mu Epsilon National Mathematics Honor Society, the National Association of Mathematicians (NAM) and Enhancing Diversity in Graduate Education (EDGE). Lewis was a panelist at NAM's 2017 Regional Faculty Conference on Research and Teaching Excellence. For more information, see the posting from August 29, 2017 at <http://www.cau.edu/news>.

## NAM Golden Anniversary Campaign

In 2019, the National Association of Mathematicians (NAM) will celebrate its 50th anniversary. To commemorate this landmark year, NAM is conducting a Golden Anniversary Campaign ending on September 30, 2019 with the goal of establishing a NAM Endowment Fund of at least \$2 million to serve as its base support, ensuring vibrant annual programs and activities for many years in the future. During the Golden Anniversary Campaign, NAM hopes to achieve a significant increase in membership, especially in the category of Lifetime Members as well as increasing abundantly its student membership! NAM is a diverse organization whose membership is open to all.

The purpose of NAM has always been to promote excellence in the mathematical sciences and to promote the mathematical development of underrepresented American minorities. NAM carries out this purpose by providing and promoting high quality year-round programs and activities. The annual national meeting of NAM, held each January during the Joint Mathematics Meetings, is electrifying in its breadth of variation and diverse in its participation. Each year it includes a panel discussion on current mathematical issues; the Haynes-Granville-Brown Colloquium of presentations by recent African American PhD recipients in mathematics or statistics; the Cox-Talbot Address and NAM Lifetime Achievement Award at the NAM Banquet; and the Claytor-Woodard Research Lecture.

In the spring, NAM holds a Regional Faculty Conference on Research and Teaching Excellence. During the

summer, NAM promotes and supports an Undergraduate Summer Computational Science Institute in one venue and sponsors the David Blackwell Lecture at the MAA summer MathFest. In the fall, NAM hosts the Undergraduate MATHfest, typically at one of the Historically Black Colleges and Universities (HBCUs), which brings together mathematics students with a diverse group of mathematicians focusing on future educational opportunities.

How can you help NAM continue to provide its support of African American PhDs in the mathematical sciences? Make a contribution of any amount to NAM's Golden Anniversary campaign to ensure that this important work can be sustained for generations to come. Your donation will help NAM remain a strong and effective voice in the mathematics community. You may donate to the Golden Anniversary Campaign now at

[www.nam-math.org/payment.html](http://www.nam-math.org/payment.html)

In addition, you can help by becoming a financially active member of NAM or renewing your annual membership or becoming a lifetime member. Your contribution as a Golden Anniversary Lifetime Member (\$1,000) or as a donor at any level will go directly to the Endowment Campaign, as will any endowment of a program or lecture. A lifetime

Golden Anniversary 2019



Founded 1969





membership will ensure your ongoing support without the hassle of renewing your membership yearly.

Finally, we need your help to recruit other supporters to our cause. Tell your friends and colleagues about NAM and about the meaningful work that it is doing! Encourage others, including institutions, foundations, business enterprises and philanthropists, to support the campaign by becoming donors at one of the designated “levels of giving” or by endowing a program or lecture. Together, we elevate NAM’s prominence within the mathematical community.

You may know students, mathematicians—young or old—who could benefit from some of NAM’s programs. As the largest and oldest mathematical sciences organizations dedicated primarily to the welfare of underrepresented students and faculty, especially African Americans, it is important that we maintain the heritage of NAM as well as

position it for a viable future.

We challenge you to help us in this worthwhile effort by making your donation today. Thank you in advance for your continued support of NAM’s mission. Together we are preserving the past while endowing for the future!

*The Committee Members of NAM’s Golden Anniversary Campaign include Johnny L. Houston, Co-Chair (Elizabeth City State University), Sylvia T. Bozeman, Co-Chair (Spelman College), Robert Bozeman (Morehouse College), Donald Cole (University of Mississippi), William ‘Bill’ Hawkins (University of the District of Columbia), Emille Davie Lawrence (University of San Francisco), and Sastry Pantula (Oregon State University). Inquiries can be sent to: NAM.campaign@gmail.com*

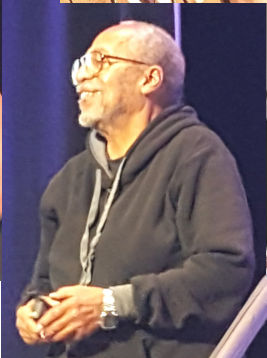
## NAM Community @ Summer MAA MathFest



*MAA-NAM David Blackwell Lecture* featured Rudy Horne (Morehouse College), the math consultant for the Hollywood movie *Hidden Figures*. After the lecture, Horne, a mathematical Hollywood star, graced others with his signature. Right is Horne with NAM President Edray Goins.



*AWM-MAA Etta Z. Falconer Lecture* featured Talithia Williams (Harvey Mudd College) who is joined with AWM President Ami Radunskaya (Pomona College).



*MAA Invited Address* featured Ronald Mickens (Clark Atlanta University).



*Life and Legacy of J. Ernest Wilkins (1923-2011)* session participants (L-R) included Asamoah Nkwanta (Morgan State University), Carolyn Wilkins (Wilkins’ niece; Berklee College of Music), Ron Buckmire (National Science Foundation), Sharon Wilkins Hill (Wilkins’ daughter), Cleo Bentley (Wilkins’ doctoral student; Prairie View A&M University), Ronald Mickens (Clark Atlanta University), Bob Fefferman (University of Chicago), and Talitha Washington (Howard University).



*No Longer Hidden Figures* session presenters included (left to right) Shelby Wilson (Morehouse College), Emille Davie Lawrence (University of San Francisco), Suzanne Weekes (Worcester Polytechnic Institute), Candice Price (University of San Diego), and Talitha Washington (Howard University). The organizers were Talithia Williams (Harvey Mudd College, shown right), Jacqueline Jensen-Vallin (Lamar University), and Alissa Crans (Loyola Marymount University).





## NAM Community @ SIAM, NTA, and CAARMS



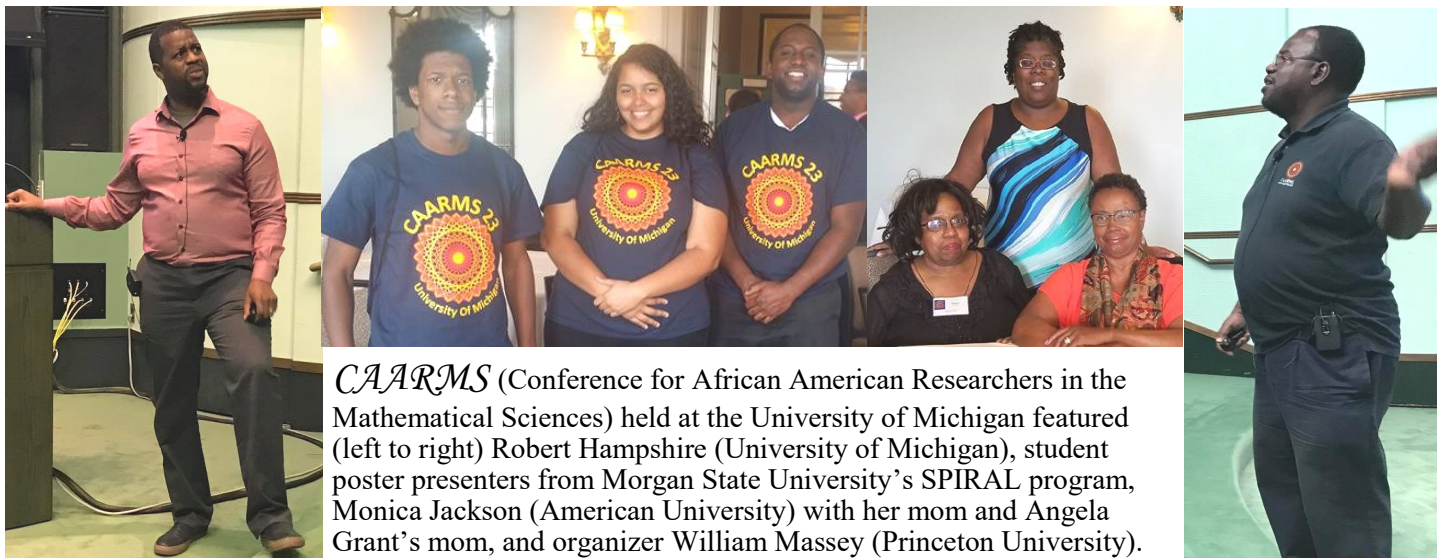
*Celebrating Diversity in the Mathematical Sciences* panel at the 2017 SIAM Annual Meeting held in Pittsburgh, Pennsylvania featured (left to right) Richard Tapia (Rice University), Ami Radunskaya (Pomona College; AWM President), Ron Buckmire (National Science Foundation), and Shelby Wilson (Morehouse College).



*Hidden Figures* panel at the 2017 SIAM Annual Meeting featured (left to right) Erica Graham (Bryn Mawr College), Shelby Wilson (Morehouse College), Christine Darden (Retired from NASA), Carla Cotwright-Williams (Social Security Administration), and Talitha Washington (Howard University).



*National Technical Association's* (NTA) annual conference held at Morgan State University celebrated "Multigenerational Approaches for STEM Success". The opening session, shown above, featured Christine Darden (retired from NASA) and NASA Astronaut Leland Melvin. Shown above left are NTA Past President Hattie Carwell and NTA National President Ambrose Jerald.



*CAARMS* (Conference for African American Researchers in the Mathematical Sciences) held at the University of Michigan featured (left to right) Robert Hampshire (University of Michigan), student poster presenters from Morgan State University's SPIRAL program, Monica Jackson (American University) with her mom and Angela Grant's mom, and organizer William Massey (Princeton University).



## NAM Community @ JMM 2018

The **AMS Special Session on Research by Postdocs of the Alliance for Diversity in Mathematics** will be held January 10-11 starting at 8:30 am each day.

The “Implicit Bias and Its Effects in Mathematics” **MAA-JCW-AWM-NAM Panel** includes NAM Board member Ron Buckmire (National Science Foundation) and will be held on January 10 at 4:15 pm.



Frederico Ardila

The **AMS Education and Diversity Department Panel** on “Strategies for Diversifying Graduate Mathematics Programs” that includes NAM President Edray Goins (Purdue University) will be held Wednesday, January 10 at 6:30 pm.

Frederico Ardila (San Francisco State University) will give the **AMS Invited Address** on January 11 at 2:15 pm.

The **NAM Granville-Brown-Haynes Session of Presentations by Recent Doctoral Recipients in the Mathematical Sciences** features Kamal Barley (University of Cincinnati), Cory Colbert (Williams College), Alexander Diaz-Lopez (University of Villanova), Karen Hicklin (University of North Carolina at Chapel Hill), Haydee Lindo (Williams College), Melissa Guemo Ngamini (Morehouse College), Kendra Pleasant (Morgan State University), and Bobby Wilson (Massachusetts Institute of Technology) and will be held on January 12 from 1:00-3:35 pm.

**National Association of Mathematicians Banquet** is held on Friday, January 12 from 6:00-8:40 pm. A cash bar reception will be held at 6:00 pm, and dinner will be served at 6:30 pm. Tickets are US\$75 each, including tax and gratuity. The Cox-Talbot Invited Address will be given after the dinner. Please **purchase banquet tickets when you register**.

Erica Walker (Teachers College, Columbia University) will give the **NAM Cox-Talbot Address** entitled “Hidden in Plain Sight: Mathematics Teaching and Learning Through a Storytelling Lens” on January 12 at 7:45 pm.



Erica Walker

The **NAM Panel** on “Advising Our Students on the Transition to the 1st (or 0th) Year of Graduate School” includes panelists Julia Anderson-Lee (Iowa State University), Trachette Jackson (University of Michigan), Douglas Mupasiri (University of Northern Iowa) and Michael Young (Iowa State University) and will be held January 13 at 9:00 am.

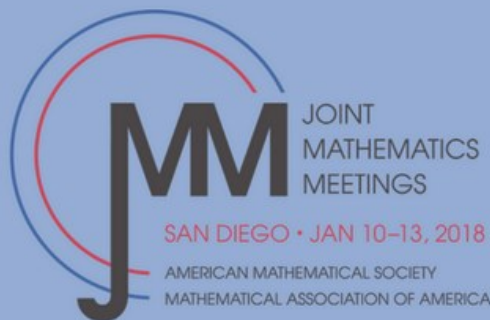
The **NAM Business Meeting** will be held on January 13 at 10:00 am. All are invited.

Ronald Mickens (Clark Atlanta University) will give the **NAM Claytor-Woodard Lecture** entitled “Nonstandard Finite Difference Schemes: Impact, Importance, and Dynamical Consistency” on January 13 at 1:00 pm.



Ronald Mickens

### Register for JMM Today!



## NAM Calendar

The **Black Doctoral Network Conference** will be held on **October 26-28, 2017** in Atlanta, Georgia. See: [www.blackphdnetwork.com](http://www.blackphdnetwork.com)

The **2017 Field of Dreams Conference** will be held **November 3-5** in St. Louis, Missouri. See: <http://www.mathalliance.org>

The **Joint Mathematics Meetings** will be held **January 10-13, 2018** in San Diego California. See: above and <http://jointmathematicsmeetings.org>

The Howard University Math Modeling in Biology &

## Conferences & Workshops

**Medicine Workshop on the Mathematical Modeling of Diabetes** will be held in the Chemistry Building Auditorium, Howard University, Washington, DC on December 2, 2017. See: <http://humathbio.weebly.com>

The **Latinx in the Mathematical Sciences Conferences** will be held at the Institute for Pure and Applied Mathematics, Los Angeles, California, on March 8-10, 2018.

The **Infinite Possibilities Conference** will be held at Howard University, Washington, DC on April 14-15, 2018.





## Job Openings



Additional job openings may be found on the *NAM Newsletter* webpage at:

<http://nam-newsletter.org>

Advertisements should be submitted electronically to the editor at [nam\\_newsletter@yahoo.com](mailto:nam_newsletter@yahoo.com). Any format is accepted. Details on deadlines and the cost to advertise may be found on the website.

### American University

#### *Tenure-line Position in Statistics*

The Department of Mathematics and Statistics at American University (Washington, DC) invites applications for a **full-time, tenure-line Assistant Professor position in Statistics**, beginning in August 2018.

An ideal candidate will possess expertise in computation; can identify specific prospects for on-campus collaboration, possibly interdepartmental; and will have a record of or a strong potential for obtaining external funding. Some research areas that would be compatible with those of the university include data science, machine learning, Bayesian modeling, spatial statistics, time series analysis, biostatistics, and other areas of statistics with biological applications. We are open to researchers who ignore traditional disciplinary boundaries.

Applicants must have a PhD in a relevant discipline. Successful teaching and post-doctoral experience are preferred. Responsibilities include: establishing an internationally recognized research program, preferably one that can involve students at the undergraduate or master's level; teaching and curriculum development; and service to the department and to the wider university.

American University's areas of long-time strength or recent investment include computational and behavioral neuroscience, environmental science, public health, persuasive gaming, metropolitan studies, economics, international

service, public affairs, and business.

Applicants should submit a cover letter explaining how they fit the criteria above. In addition, they should submit a curriculum vita, teaching statement, and research statement, and applicants must arrange for at least three letters of recommendation, at least one of which should address teaching ability. Materials can be submitted online at [mathjobs.org](http://mathjobs.org) (highly preferred) or via email to Michele Mazzocchi at [mazzocch@american.edu](mailto:mazzocch@american.edu). Letters of recommendation can be submitted online at [mathjobs.org](http://mathjobs.org), by email, or in hard copy to Search Committee, Department of Mathematics and Statistics, American University, Washington, DC 20016-8050. Applications received by December 1 will receive full consideration, but the search will continue until the position is filled. Please contact Prof. Michael Baron at [baron@american.edu](mailto:baron@american.edu) if you have any questions.

American University is an EEO/AA institution, committed to a diverse faculty, staff, and student body. Women and minority candidates are strongly encouraged to apply. American University offers employee benefits to same-sex domestic partners of employees and prohibits discrimination on the basis of sexual orientation/preference and gender identity/expression.

### Amherst College

#### *Tenure-track or Tenured Position*

The Department of Mathematics and Statistics invites applications for a full-time **tenure-track or tenured appointment** in mathematics beginning July 2018. Within the last decade, Amherst College has transformed its student body in terms of socioeconomic status, ethnicity, and nationality. We seek applicants who can teach and encourage students of diverse backgrounds, including first-generation college students, international students, and students with varying mathematical preparation. Responsibilities include teaching two courses per semester and supervising undergraduate theses. Applicants must hold a Ph.D. in mathematics or a related field, have a strong commitment to research, and be passionate about teaching undergraduates at

all levels. A senior appointment would be with tenure, contingent upon a tenure review. Applicants should submit a cover letter, curriculum vitae, research statement, teaching statement, and at least three letters of recommendation (including at least one that specifically addresses teaching), to [MathJobs.Org](http://MathJobs.Org). Applications will be accepted until the position is filled, and applications received by **December 1, 2017**, will be guaranteed consideration. Questions can be addressed to [mathstats@amherst.edu](mailto:mathstats@amherst.edu). Amherst College is co-educational liberal arts college with 1,800 students and 200 faculty. Resources for faculty include a Teaching and Learning Collaborative, a Center for Community Engagement, and a Faculty Research Award Program.

### Appalachian State University

#### *Tenure-track Position*

The Department of Mathematical Sciences at Appalachian State University invites applications for one or more **tenure-track**, nine-month, faculty positions at the rank of assistant or associate professor beginning August 2018. Applicants with expertise in actuarial science, analysis, or partial differential equations are strongly encouraged to apply. Appalachian State University is committed to de-

veloping and allocating resources for the continued development of a diverse campus culture and the department encourages applications from candidates with diverse backgrounds.

For a detailed description and to apply go to <https://hr.appstate.edu/employment/faculty-vacancies/533> or contact Dr. Rene Salinas at [salinasra@appstate.edu](mailto:salinasra@appstate.edu).



## Baldwin Wallace University

*Tenure-track Position*

The Department of Mathematics at Baldwin Wallace University announces a **tenure-track faculty position** at the rank of **assistant professor** beginning in August, 2018. This position presents an opportunity to join an active, collegial faculty and be an integral part of the launch of a new undergraduate program in applied mathematics. Applicants must possess a doctoral degree in statistics, applied mathematics, or a closely related field. Candidates must demonstrate a strong commitment to undergraduate research and teaching.

The successful candidate will teach courses in the new Applied Mathematics major along with core mathematics courses. In addition, all faculty members are expected to participate in professional development activities, assist students in their personal and professional development, and participate in university service and faculty governance.

Founded in 1845, Baldwin Wallace University is an independent, coeducational comprehensive institution in the liberal arts tradition and is located 15 miles southwest of downtown Cleveland and just minutes from Cleveland-Hopkins International Airport. Baldwin Wallace enrolls approximately 3,000 full-time undergraduate day students, 250 part-time students in evening and weekend programs,

and 900 graduate students. The University offers a competitive benefits package which includes funding for professional travel, summer grant opportunities, and tuition benefits for immediate family.

The University seeks to attract a culturally and academically diverse faculty of the highest caliber. Baldwin Wallace University is an equal opportunity employer and does not discriminate because of race, creed, age, disabilities, national origin, gender or sexual orientation in the administration of any policies or programs.

Applications can be submitted online at <https://www.bw.edu/employment>. Please submit via one (1) Word document or one (1) PDF file containing a cover letter, curriculum vita, contact information for three references, statement of teaching philosophy, and evidence of effective teaching must be uploaded at the time of application. The review of applications will begin immediately and continue until the position is filled.

Baldwin Wallace University is an EEO/AA employer and educator. At BW, we support and encourage diversity in a variety of forms. We value and appreciate inclusive excellence in the classroom, within extracurricular activities, and as we engage our community partners. Learn more at Diversity Affairs – <https://www.bw.edu/about/diversity>.

## Bowdoin College

Visiting **Assistant Professor in Statistics or Probability** position starting Fall 2018. Position initially for two years, with possibility of extension to a third year. Preference given to applicants who appreciate the rich interplay between applied and theoretical statistics and mathematics.

Visit <http://www.MathJobs.org/jobs/jobs/11081> to ap-

*Visiting Assistant Professor in Statistics or Probability*

ply. Review **begins 11/27/17** and will continue until position is filled.

Bowdoin College is committed to equality and is an equal opportunity employer. For a full description of the position and further information about the College, see [www.bowdoin.edu](http://www.bowdoin.edu).

## Hamilton College

*Tenure-track Position*

The Mathematics Department at Hamilton College invites applications for a **two-year position** beginning July 1, 2018, at the rank of Visiting Assistant Professor. Candidates with ABD will be considered, although candidates with a Ph. D. are preferred. The teaching load for this position is five courses per year.

Commitment to excellence in all aspects of undergraduate teaching is essential, as is a passion for working with students, both in and beyond the classroom. Prior teaching experience is desirable. The department has 9 members and is currently averaging between 45 and 55 majors per year. For more information see <http://www.hamilton.edu/academics/math/default.html>.

We are seeking candidates who can demonstrate their experience in teaching or working with diverse student populations. Your application should include a diversity statement which addresses the ways in which you would further the College's goal of building a diverse educational environment.

A complete application consists of the AMS cover sheet, a current curriculum vitae, research, teaching and

diversity statements, and three letters of reference, including at least one that evaluates teaching. These may be submitted electronically at <http://www.mathjobs.org>. The deadline for applications is **December 15, 2017**; applications will be reviewed until the position is filled. Questions regarding the search may be directed to Sally Cockburn, Search Committee Chair, at [scockbur@hamilton.edu](mailto:scockbur@hamilton.edu).

Hamilton ([www.hamilton.edu](http://www.hamilton.edu)) is a residential liberal arts college located in upstate New York. Applicants with dual-career considerations can find other Hamilton and nearby academic job listings at [www.upstatenyherc.org](http://www.upstatenyherc.org), as well as additional information at <https://www.hamilton.edu/dof/faculty-development/resources-for-prospective-or-new-faculty/opportunities-for-spouses-or-partners> (Opportunities for Spouses or Partners). Hamilton College is an affirmative action, equal opportunity employer and is committed to diversity in all areas of the campus community. Hamilton provides domestic partner benefits. Candidates from underrepresented groups in higher education are especially encouraged to apply.



## Franklin & Marshall College

*Tenure-track Position*

The Department of Mathematics at Franklin & Marshall College invites applications for a **tenure-track position in algebra or applied algebra** beginning Fall 2018 at the rank of Assistant Professor or Instructor, depending on qualifications. Demonstrated potential for excellence in both teaching and research is essential. The teaching load is five courses per year, and most math courses meet four hours per week.

The person selected for this tenure-track position may also be considered for a supplemental appointment as a Franklin & Marshall High Impact Emerging Scholar. These are scholars who possess outstanding promise for inspiring and supporting the educational development of underrepresented minority students in a higher educational setting

such as Franklin & Marshall College. The HIES program supports the acceleration of one's research trajectory with a significantly reduced teaching load for two years along with supportive mentoring to advance the scholar's research and professional development.

For a full description of the position, and to apply, see <https://apply.interfolio.com/43786>. For more information about the College, see our website at [www.fandm.edu](http://www.fandm.edu). Applications completed by **December 1, 2017** will receive full consideration.

Franklin & Marshall College is an Equal Opportunity Employer, and is committed to having an inclusive campus community where all members are treated with dignity and respect.

## Hamilton College

*Tenure-track Position*

The Mathematics Department at Hamilton College invites applications for a **tenure-track position** at the rank of Instructor or Assistant Professor, beginning July 1, 2018. The area of the position is statistics, broadly construed. Candidates with a PhD in statistics are preferred, although candidates with ABD will be considered.

Commitment to excellence in all aspects of undergraduate teaching and mentorship is essential, as is a passion for working with students, both in and beyond the classroom, in a vibrant department that is currently averaging between 40 and 50 majors per year. Prior teaching experience is desirable. The teaching load for this position is four courses during the first year and five courses thereafter. Active scholarship is expected, and candidates should indicate how both their research programs and related teaching interests would contribute to the department's curriculum. For more information see:

<http://www.hamilton.edu/academics/math/default.html>.

Finally, we are seeking candidates who can demonstrate their experience in teaching and working with diverse student populations. Your application should include a diversity statement which addresses the ways in which you would further the College's goal of building a diverse

educational environment.

A complete application will include a cover letter, a current curriculum vitae, research, teaching and diversity statements, and three letters of reference (including at least one that evaluates teaching). These may be submitted electronically at <http://www.mathjobs.org>. Questions regarding the search may be directed to Sally Cockburn, Search Committee Chair, at [scockbur@hamilton.edu](mailto:scockbur@hamilton.edu). Applications will be accepted until **November 1, 2017**; they will be reviewed as they come in.

Hamilton ([www.hamilton.edu](http://www.hamilton.edu)) is a residential liberal arts college located in upstate New York. Applicants with dual-career considerations can find other Hamilton and nearby academic job listings at [www.upstatenyherc.org](http://www.upstatenyherc.org), as well as additional information at <https://www.hamilton.edu/dof/faculty-development/resources-for-prospective-or-new-faculty/opportunities-for-spouses-or-partners>. Hamilton College is an affirmative action, equal opportunity employer and is committed to diversity in all areas of the campus community. Hamilton provides domestic partner benefits. Candidates from underrepresented groups in higher education are especially encouraged to apply.

## Loyola Marymount University

*Tenure-track Position*

The Mathematics Department of Loyola Marymount University invites applications for a **tenure-track position** at the Assistant Professor level beginning Fall 2018. Responsibilities include teaching, advising, maintaining an active program of scholarship, and engaging in university service. Applicants are expected to have completed a Ph.D. or comparable terminal degree in mathematics, statistics, mathematics education, or a related field by employment commencement in Fall 2018. The position will have an emphasis in such areas as algebra, analysis, data science, discrete mathematics, or probability. LMU is committed to broadening the participation of students in STEM fields and applicants are encouraged to describe in their letter of interest their experience, demonstrated ability, or interest in

teaching or mentoring underrepresented students to promote inclusion and diversity in the mathematical sciences. A complete application consists of a letter of interest, curriculum vitae, statement on teaching philosophy, a description of the applicant's current scholarship program, and three letters of recommendation at least one of which addresses the applicant's teaching. Screening of applications will begin **December 1, 2017**. Applicants who will be attending the 2018 Joint Mathematics Meetings in January should indicate this in their letter of interest. Apply online at [www.mathjobs.org/jobs](http://www.mathjobs.org/jobs). Please address questions to Dr. Blake Mellor, Hiring Committee Chair, at [Blake.Mellor@lmu.edu](mailto:Blake.Mellor@lmu.edu) or 310-338-5775.





## Kenyon College

*Tenure-track Position*

The Department of Mathematics and Statistics at Kenyon College seeks to fill a **Tenure-Track position** at the **assistant professor level** beginning July 2018. A Ph.D. in statistics or biostatistics is required, as well as prior teaching experience at a U.S. college or university.

Our department has a strong commitment to student-centered learning. Thus, we will be particularly interested in candidates with experience in active learning techniques and/or laboratory based instruction. The typical teaching load is five courses per year. Kenyon faculty members are expected to be excellent teachers who maintain strong research programs, and there are funds available to support travel and faculty development.

Kenyon College has a student body of about 1750 students, is ranked in the top tier of national liberal arts colleges, and has a reputation for outstanding teaching and scholarship. The Mathematics and Statistics Department is housed in a spacious and well-equipped building. We have eight full time faculty members teaching the full range of

undergraduate mathematics and statistics courses. The department offers a major in mathematics with concentrations in statistics and classical mathematics. We also contribute to an interdisciplinary concentration in scientific computing.

For application instructions, visit: <http://careers.kenyon.edu>.

For full consideration applications must be submitted by October 10, 2017. We will, however, continue to accept applications until the position is filled.

**Kenyon College is an equal opportunity employer.** *It is the College's policy to evaluate qualified applicants without regard to race, color, national origin, ancestry, sex, gender, gender identity, gender expression, sexual orientation, physical and/or mental disability, age, religion, medical condition, veteran status, marital status, or any other characteristic protected by institutional policy or state, local, or federal law.*

## Middlebury College

*Tenure-line Position in Statistics*

The Department of Mathematics invites applications for a **tenure-track Assistant Professorship in Statistics** to begin in September 2018. Candidates should provide evidence of commitment to excellent teaching and scholarly potential. Middlebury College is a top-tier liberal arts college with a demonstrated commitment to excellence in faculty teaching and research. An Equal Opportunity Employer, the College is committed to hiring a diverse faculty as we work to foster innovation in our curriculum and to provide a rich and varied educational experience to our increasingly diverse student body. EOE/Minorities/Females/Vet/Disability.

Middlebury College uses Interfolio to collect all faculty job applications electronically. Email and paper applications will not be accepted. At Middlebury, we strive to make our campus a respectful, engaged community that

embraces difference, with all the complexity and individuality each person brings. Please submit: a letter of application; teaching and research statements; a statement of a vision for statistics education in a liberal arts setting; curriculum vitae; graduate transcript, a sample of reprints or preprints, as appropriate; and three current letters of recommendation, at least two of which must speak to teaching ability. Candidates are normally expected to have completed the Ph.D. prior to the start of the position. Review of applications will begin on **October 15, 2017**, and continue until the position is filled. More information can be found here: <http://aptrkr.com/1060133>

All offers of employment are contingent upon completion of a background check. Information on our background check policy can be found here: <http://go.middlebury.edu/backgroundchecks>

## Northeast Wisconsin Technical College

*Instructor*

The General Studies/Mathematics Department at Northeast Wisconsin Technical College invites applications for a **full-time Mathematics Instructor** beginning Spring 2018. We seek applicants who can inspire our increasingly diverse student population, as we believe great things happen when people of different races, religions, genders, ethnicities, national origins, sexual orientations, and abilities work together for student success.

Our instructor's primary purpose is to design instruction and assessment in an engaging environment to foster learner success. Instructors continually improves the overall quality in the delivery of learning that supports the achievement of College outcomes and priorities utilizing evidence to support decision-making.

Founded in 1912, Northeast Wisconsin Technical College is a nationally-recognized, two-year public college. Last year, nearly 33,500 individuals chose NWTC to prepare for their careers or start their bachelor's degrees.

Ninety-four percent of 2016 NWTC graduates were employed within six months of graduation. Hundreds of students transferred their credits to four-year universities.

NWTC is setting the student success standard for the state's technical colleges. In 2010, NWTC was the first college in Wisconsin to join Achieving the Dream, a non-profit dedicated to helping community college students succeed. Last year the College was named a finalist for the American Association of Community College Awards of Excellence in the student success category and a finalist for the Hobson's Award in the category of student success and advising.

To view a full description of the position and for instruction on how to apply, please visit [www.nwtc.edu/jobs](http://www.nwtc.edu/jobs).

Review of applications will begin late October 2017, and continue until the position is filled. Anticipated start date is **January 8, 2018**.



## Purdue University

The Department of Mathematics invites applications for an appointment at the rank of tenured full professor to fill the endowed **Andris A. Zoltners Professorship in Mathematics**. A Ph.D. (or its equivalent) in mathematics or a closely related field is required. We are expecting applications from candidates with an outstanding record of research accomplishments, internationally recognized stature, credentials suitable for immediate nomination as a Distinguished Professor, and great potential for future work. We will consider applications in any area of mathematics.

**Duties:** Conduct research in mathematics, interact with faculty, teach undergraduate and/or graduate courses, mentor junior faculty, and participate in the governance of the Department, College, and University by serving on faculty committees.

Applications should be submitted online through [www.mathjobs.org/jobs/jobs/10781](http://www.mathjobs.org/jobs/jobs/10781) and should include (1) the AMS cover sheet for academic employment, (2) a curriculum vitae, (3) a research statement, and (4) four letters of recommendation. Preferably one of

### *Tenure-line Position in Statistics*

the letters will discuss the candidate's teaching. Reference letter writers should be asked to submit their letters online through [www.mathjobs.org](http://www.mathjobs.org).

Direct all inquiries to [mathhead@purdue.edu](mailto:mathhead@purdue.edu). Screening of applications will begin **October 30, 2017** and continue until filled. Some offers may be made before the end of January 2018. For information about our department, see [www.math.purdue.edu](http://www.math.purdue.edu). A background check will be required for employment in these positions.

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

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

## Purdue University

These three-year positions, **Golomb Visiting Assistant Professor and Zoltners Visiting Assistant**, intended for new and very recent Ph.D.s will commence August 2018 and are open to mathematicians who demonstrate exceptional research promise and a strong teaching record. Ph.D. (or its equivalent) in mathematics or closely related field by August 14, 2018 is required. Applicants should have research interests in common with Purdue faculty. Duties include teaching undergraduate and graduate mathematics courses.

Applications should be submitted online through [www.mathjobs.org](http://www.mathjobs.org) and should include (1) the AMS cover sheet for academic employment, (2) a curriculum vita, (3) a research statement, and (4) three letters of recommendation, one of which discusses the candidate's teaching qualifications. Reference letter writers should be asked to submit their letters online

### *Visiting Assistant Professorships*

through [www.mathjobs.org/jobs/jobs/10779](http://www.mathjobs.org/jobs/jobs/10779). Direct all inquiries to [mathhead@purdue.edu](mailto:mathhead@purdue.edu). Screening of applications will begin November 1, 2017 and continue until filled. Some offers will be made before the end of January 2018. For information about our department, see [www.math.purdue.edu](http://www.math.purdue.edu). A background check will be required for employment in these positions.

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

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

## Santa Clara University

The Department of Mathematics and Computer Science at Santa Clara University, a Jesuit Catholic institution, seeks to fill two **Lecturer positions** in lower-division mathematics, commencing September 1, 2018. The position requires teaching, over three academic quarters, seven lower-division mathematics courses, such as: Pre-calculus, Finite Mathematics, Calculus I, II, III, IV (for Science and Engineering majors), Business Calculus I and II, Introduction to Statistics, and Discrete Mathematics. Position is contingent on funding. Candidates must have a graduate degree, preferably a Ph.D., in Mathematics, Computer Science, or a closely related field. Regardless of degree, candidates must provide evidence of excellence in teaching at the university or college level. Santa Clara University does not sponsor any visa applications for this position. The successful can-

### *Lecturer Positions*

didate must be able to provide evidence of identity and legal authorization to work in the United States. Lecturers are appointed for a term of three years. Reappointment to subsequent terms of three years and then six years are possible, but are dependent upon evidence of superior teaching, professional activity, and service; persistent programmatic need in the curricular area defining the position; and availability of funding.

**Application Deadline:** December 31, 2017

Application materials should be sent electronically to: <https://jobs.scu.edu/postings/6210>

Departmental website: <https://www.scu.edu/mathcs>

For more information, please visit the Santa Clara University Human Resources website at: [www.scu.edu/hr/careers](http://www.scu.edu/hr/careers)



## Purdue University

*Assistant Professor*

The Mathematics Department at Purdue University invites applications for up to two possible appointments in mathematics to begin August 2018. These appointments will be at the level of **assistant professor**. Appointments will be made based on demonstrated research and teaching qualifications. Ph.D. (or its equivalent) in mathematics or a closely related field is required. Preference will be given to outstanding applicants in the areas of Analysis and Geometry (including stochastic analysis/probability, harmonic analysis, partial differential equations, complex analysis, and symplectic/differential geometry), Algebra (including commutative algebra, algebraic topology, algebraic geometry, automorphic forms and number theory), and Computational and Applied Mathematics (including applied, numerical, and computational analysis, the modeling of physiological systems, and inverse problems).

**Duties:** Conduct research in mathematics. Teach undergraduate and/or graduate mathematics courses to a diverse student body and supervise graduate students. Senior faculty will also mentor junior faculty and participate in the governance of the department, the College of Science, and the University by serving on faculty committees.

Applications should be submitted online

through [www.mathjobs.org/jobs/jobs/10778](http://www.mathjobs.org/jobs/jobs/10778) and should include (1) the AMS cover sheet for academic employment, (2) a curriculum vitae, (3) a research statement, and (4) four letters of recommendation, one of which discusses the candidate's teaching qualifications. Reference letter writers should be asked to submit their letters online through [www.mathjobs.org](http://www.mathjobs.org). Direct all inquiries to [kstroud@math.purdue.edu](mailto:kstroud@math.purdue.edu). Applications are considered on a continuing basis but candidates are urged to apply by November 1, 2017. For more information about our department, see [www.math.purdue.edu](http://www.math.purdue.edu). A background check will be required for employment in this position.

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

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

## Syracuse University

*Tenure-track Positions in Statistics*

The Department of Mathematics at Syracuse University seeks to fill **two tenure-track positions in Statistics** at the assistant professor level, beginning August 2018. A Ph.D. in Statistics or a Ph.D. in Mathematics with concentration in Statistics is required. Candidates should have a record of strong accomplishment and potential in both research and teaching. We will also consider expressions of interest for a senior position from senior faculty members in Statistics. The department also seeks candidates who value Syracuse University's commitment to diversity and inclusion.

Applicants from all areas of statistics are encouraged to apply. Preference will be given to candidates whose research interests overlap or complement those of the exist-

ing faculty and have a computational component. See <http://math.syr.edu> for more information.

Applications must be done in two steps:

**Step 1.** Candidates must submit an online faculty application with a CV at this website, [www.sujobopps.com](http://www.sujobopps.com) (JOB# 073487)

**Step 2.** Candidates must submit a cover letter, CV, a research and a teaching statement, three letters of recommendation addressing research qualifications, and at least one letter of recommendation addressing teaching at [www.mathjobs.org/jobs](http://www.mathjobs.org/jobs).

EOE/AA

## Syracuse University

*Tenure-track Position in Topology/Geometry or Algebra*

The Department of Mathematics at Syracuse University seeks to fill one tenure-track position in the area of **Topology/Geometry or Algebra** at the **Assistant Professor** level, beginning August 2018. A Ph.D. in Mathematics is required and Post-doc experience is preferred. Candidates should have a record of strong accomplishment and potential in both research and teaching. The department also seeks candidates who value Syracuse University's commitment to diversity and inclusion.

Applicants from all areas in Topology/Geometry and Algebra are encouraged to apply. Preference will be given to candidates whose research interests overlap or complement those of the existing faculty. See <http://math.syr.edu> for more information.

Applications must be done in two steps:

**Step 1.** Candidates must submit an online faculty application with a CV on this website, [www.sujobopps.com](http://www.sujobopps.com), # 073490.

**Step 2.** Candidates must submit a cover letter, CV, a research and a teaching statement, three letters of recommendation addressing research qualifications, and at least one letter of recommendation addressing teaching at <http://www.mathjobs.org/jobs>.

Screening of candidates **begins November 1, 2017** and continues until the position is filled.

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





## University of Pennsylvania

*Assistant Professor*

The Department of Mathematics invites applications for one **tenure-track Assistant Professor** position. We are especially looking for mathematicians whose work is in **geometry/topology**. Responsibilities include teaching undergraduate and graduate courses in Mathematics and conducting research in the field. Ph.D. in Mathematics is required. Applications should be submitted online through [www.mathjobs.org](http://www.mathjobs.org) 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 16, 2017** and will continue until the position is filled. It is anticipated that the position will start July 1, 2018.

The Department of Mathematics is strongly committed to Penn's Action Plan for Faculty Diversity and Excellence and to creating a more diverse faculty (for more information see: <http://www.upenn.edu/almanac/volumes/v58/n02/diversityplan.html>). The University of Pennsylvania is an EOE. Minorities/Women/Individuals with disabilities/Protected Veterans are encouraged to apply.

## University of Pennsylvania

*Assistant Professor in Computational Astrophysics*

The Department of Physics and Astronomy at the University of Pennsylvania invites applications for an **Assistant Professor in Computational Astrophysics** position, to start July 1, 2018. We are looking for an astrophysicist with expertise in data science, numerical simulation, or computation. The first three years of this tenure-track position at Penn will include a joint (50/50%) appointment with the newly created Simons Center for Computational Astrophysics (CCA). At the CCA, the appointment will hold the position of Associate Research Scientist. Associate Research Scientists develop algorithms and codes for computational astrophysics and/or for the analysis of large astronomy data sets. Applicants are expected to have a PhD and to have established an independent program of research that they will expand at Penn and CCA.

come a focal point for computational astronomy around the world and plan to play a leadership role in developing the computational tools needed for calculations, simulations and data analyses.

Candidates should submit materials online at <http://facultysearches.provost.upenn.edu/postings/1289> and include: a curriculum vitae (including list of publications); a description (4 pages maximum) of past and planned research and of teaching interests; and the names and contact information for at least three references. Recommenders will be contacted by the University with instructions on how to submit a letter to the website. Review of applications will begin December 1, 2017 and continue until the position is filled.

The Department of Physics and Astronomy is strongly committed to Penn's Action Plan for Faculty Diversity and Excellence and to creating a more diverse faculty (for more information see: <http://www.upenn.edu/almanac/volumes/v58/n02/diversityplan.html>). The University of Pennsylvania is an equal opportunity employer. Minorities, women, individuals with disabilities, and protected veterans are encouraged to apply. The Simons Foundation is an Equal Opportunity Employer, M/F/D/V

## University of Nebraska

*Professor of Practice*

The Department of Mathematics at the University of Nebraska invites applications for the following position: One **Professor of Practice** position, at the Assistant Professor Level, to take a leadership role in the Department's first-year mathematics program through calculus. Review of applications will begin **December 1, 2017** and continue until a suitable candidate is found. For more information

about this position and information on how to apply for it, please go to: <http://www.math.unl.edu/departments/jobs>.

The University of Nebraska-Lincoln is committed to a pluralistic campus community through affirmative action, equal opportunity, work-life balance, and dual careers. See <http://www.unl.edu/equity/notice-nondiscrimination>.



## NAM Elections

As a NAM member, either past or current, we invite you to take the next step and consider involvement in the leadership of NAM. Your involvement provides an opportunity to influence the role that NAM plays within the mathematical community in the years to come.

### Open Positions:

- President
- Outside Academia Member
- Region A Member

The President and members of the NAM Board of Directors serve for three years. The Board determines all policy of the organization, creates and oversees committees, appoints the treasurers and executive secretaries, and each member also serves on one of the organizations committees.

The election to fill the vacancies for the NAM officers and other positions will be held in the Fall of 2017 with ballots opening on Friday, November 3, 2017 and closing

on Friday December 1, 2017. All terms will be for three years beginning on February 1, 2018. While finding time for service is never easy and is often selfless, serving on the NAM Board of Directors in any of these capacities would go a long way towards keeping the organization moving forward in a direction that can continue to inspire future generations.

Candidates must be a current member of NAM, and must be currently employed as a professional mathematician at an institution of higher learning (except for the Outside of Academia representative). For membership information click here. Please consider nominating yourself or someone else.

The Legislation-Nomination Committee notifies the members of the nominees by Friday, October 27th. If you have any questions please contact Robin Wilson, the Legislation-Nomination Committee chair, at majority-institution-member@nam-math.org.

See: <http://www.nam-math.org/elections.html>

## NAM Board of Directors

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egoins@math.purdue.edu  
[www.math.purdue.edu/~egoins](http://www.math.purdue.edu/~egoins)



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talitha.washington@howard.edu  
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### Executive Secretary Emeritus, Dr. Johnny Houston

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jlhouston602@gmail.com

### Region A: Southwest/West

Alabama Montana  
California Puerto Rico  
Florida South Carolina  
Georgia Virgin Islands  
Any State not in B or C

### Region B: Mid-Atlantic

Delaware New York  
District of Columbia North Carolina  
Kentucky Pennsylvania  
Maryland Virginia  
New Jersey West Virginia

### Region C: Midwest/Southwest

Arkansas Ohio  
Illinois Oklahoma  
Louisiana Tennessee  
Mississippi Texas  
Missouri



# NATIONAL ASSOCIATION OF MATHEMATICIANS MEMBERSHIP AND DONATION FORM

**MEMBERSHIP IS FOR CALENDAR YEAR:** JANUARY 1 to DECEMBER 31 of \_\_\_\_\_

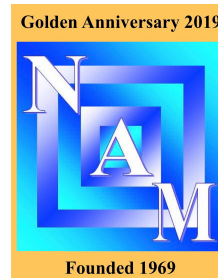
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ADDRESS \_\_\_\_\_

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TELEPHONE: HOME (\_\_\_\_\_) \_\_\_\_\_ OFFICE (\_\_\_\_\_) \_\_\_\_\_

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### SELECT APPROPRIATE MEMBERSHIP TYPE

STUDENT: \$30  INDIVIDUAL: \$50  LIFE: \$500  GOLDEN LIFE: \$1000  INSTITUTIONAL: \$150

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### PLEASE RETURN COMPLETED FORM AND MEMBERSHIP DUES TO:

Dr. Roselyn E. Williams, Secretary-Treasurer

National Association of Mathematicians  
P.O. Box 5766  
Tallahassee, Florida 32314-5766

Office Phone: (850) 412-5236  
Email: Roselyn.Williams@fam.u.edu  
Web page: <http://www.nam-math.org>

### INDIVIDUALS AND STUDENTS

Please complete below if you did not send NAM this information within the past three years. List all degrees you currently hold. Circle the correct degree.

B.S. or B.A.: Area \_\_\_\_\_ Institution \_\_\_\_\_

M.S. or M.A.: Area \_\_\_\_\_ Institution \_\_\_\_\_

Ph.D. or Ed.D.: Area \_\_\_\_\_ Institution \_\_\_\_\_

Other: Area \_\_\_\_\_

Institutional Representative (for NAM)

Area or State Representative \_\_\_\_\_

Committee Member (specify interest): Interest \_\_\_\_\_

Need additional information about the organizational structure of NAM



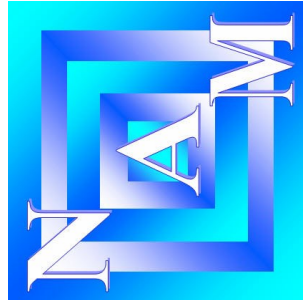
### RACE/ETHNICITY (optional)

Asian  Black  Hispanic  Native American/Alaska Native  Pacific Islander  White  Other



Dr. Talitha M. Washington  
**NAM Newsletter**  
Howard University  
College of Arts and Sciences  
Department of Mathematics  
2441 6th Street, NW  
Washington, DC 20059

ADDRESS SERVICE REQUESTED



Fall 2017