

# Talitha M. Washington

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Web: [www.talithawashington.com](http://www.talithawashington.com)  
Email: [twashington@aucenter.edu](mailto:twashington@aucenter.edu)

Office: (404) 992-2570  
Cell: (812) 604-0979

## ADMINISTRATIVE EXPERIENCE

### **President, Association for Women in Mathematics (AWM)** (February 2023 – present)

- Serve as the Chief Executive Officer of AWM and, subject to the control of the Directors, and has a general charge and supervision of its affairs
- Served as *President-Elect* (February 2022 – January 2023)
  - The AWM is a non-profit, professional organization with more than 3500 members that promotes equitable opportunity and treatment of women across the mathematical sciences.

### **Director and Lead Principal Investigator of the National Data Science Alliance (NDSA)**, Atlanta, GA (August 2022 – present)

- Leads the work across Historically Black Colleges and Universities (HBCUs) to increase the number of Blacks with expertise in data science by at least 20,000 by 2027 and expand data science research that advocates for social justice
- Builds on the collaborative data science work at the Atlanta University Center (AUC) Consortium member institutions, Clark Atlanta University, Morehouse College, Morehouse School of Medicine, and Spelman College, as well as the AUC Robert Woodruff Library
  - Funded by the National Science Foundation (NSF) INCLUDES program for \$10M, award #2217346

### **Director of the Data Science Initiative, Atlanta University Center (AUC) Consortium**, Atlanta, GA (August 2020 – present)

- Oversee and provide strategic direction and coordination of data science education, research, and outreach as well as development and fundraising activities across Clark Atlanta University, Morehouse College, Morehouse School of Medicine, Spelman College, and the AUC Robert W. Woodruff Library (approximately 9K students and 1K faculty)
- Lead the coordinating efforts across four member institutions and the AUC Consortium to maintain high standards of excellence across the initiative's lines of effort
- Lead the development of new projects and academic programs and ensure alignment with industry, research institutes, and government agencies
- Support the expansion of data science research to increase faculty scholarship and research productivity
- Initiate innovative undergraduate and graduate academic data science programs across all fields to prepare future leaders from underrepresented groups in STEM and other fields
- Support the on-going outcomes-based assessment and evaluation of the AUC institutions' academic data science programs
- Advisor to the presidents of each institution and works directly with the chief academic officers and other senior leadership as well as faculty, staff, and students to advance data science
- Present regularly to the 23-member Faculty Advisory Board, the 5-member AUC Consortium Council of Provosts, and the 4-member AUC Consortium Council of Presidents
  - AUC Consortium is a nonprofit that serves 4 member schools by coordinating activities, improving efficacy through mutual sharing of resources, and creating economies of cost and benefits

**Program Director, National Science Foundation, Alexandria, VA**

*Convergence Accelerator (C-Accel), Office of Integrative Activities (OIA)* (February 2020 – August 2020)

- Facilitated the merit review process and post-award management for projects that aim to accelerate use-inspired, convergence research in areas of national importance by creating partnerships with stakeholders from industry, foundations, government, nonprofits and other sectors
- Managed use-inspired convergence research in tracks (A) Open Knowledge Networks, (B1) AI and Future Jobs, (B2) National Talent Ecosystem, (C) Quantum Technology, and (D) and AI-Driven Innovation via Data and Model Sharing
- *Lead* of the proposal review process for the (C) Quantum Technology track proposal submissions
- Spearheaded the re-establishment of NSF's Blacks in Government (BIG) chapter

*Division of Undergraduate Education (DUE), Directorate for Education & Human Resources (EHR)* (August 2017 – January 2020)

- *co-Lead*, Improving Undergraduate STEM Education: Hispanic-Serving Institutions (HSI Program)
  - Developed, established and manage the HSI Program, including co-authoring its first two solicitations, NSF 18-524 and NSF 19-540
  - HSI Program funded research awards in FY19 for \$40,000,000 via NSF 19-540
  - HSI Program funded research awards in FY18 for \$45,000,000 via NSF 18-524
  - Led a team of program officers, data and scientific staff, and administrative staff
  - Coordinated the first HSI Principal Investigator Meeting held November 2019
  - Per NSF 19-540, the HSI Programs supports “activities that improve STEM learning and learning environments, broaden participation in STEM, build institutional capacity for STEM learning, and/or develop the professional STEM workforce of tomorrow”
- Facilitated the merit review process, post-award management, and outreach activities for:
  - Accelerating Discovery: Educating the Future STEM Workforce - Data Science (AD)
  - Improving Undergraduate STEM Education: Education and Human Resources - Data Science (IUSE: EHR)
  - NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM)
  - Robert Noyce Teacher Scholarship Program (Noyce)
- Provided assistance to:
  - Alliances for Graduate Education and the Professoriate (AGEP)
  - Future of Work at the Human-Technology Frontier: Core Research (FW-HTF)
  - Harnessing the Data Revolution (HDR): Data Science Corps (DSC)
- Appointed under the Intergovernmental Personnel Assignment (IPA) Act
- National Science Foundation is an independent federal agency that supports all fields of fundamental science and engineering, except for medical sciences

**Local Coordinator, The EDGE (Enhancing Diversity in Graduate Education) Program, June 2015.**

Held at Howard University, Department of Mathematics, Washington, DC

- Responsible for the budget and all logistical aspects of running the Program
- Oversight of 15 student participants, 3 graduate mentors, 4 faculty instructors, and 1 mini-course instructor
- EDGE Program strengthens the ability of women and minority students to successfully complete graduate programs in the mathematical sciences

## ACADEMIC POSITIONS

### **Clark Atlanta University, Atlanta, GA**

- *Professor with Tenure*, Department of Mathematics (2020 – present)
- *Affiliate Faculty* at Morehouse College, Morehouse School of Medicine, and Spelman College (2020 – present)
- Clark Atlanta University is a private, historically black university that was formed with the consolidation of Atlanta University and Clark College, and is classified as R2: Doctoral Universities – High research activity

### **Howard University, Washington, DC**

- *Associate Professor with Tenure*, Department of Mathematics (2012 – 2020)
- Awarded tenure (2012)
- *Visiting Associate Professor*, Department of Mathematics (2011 – 2012)
- Howard University is a private, federally chartered, historically black university and is classified as R2: Doctoral Universities – High research activity

### **The EDGE Program (Enhancing Diversity in Graduate Education)**

- *Instructor*, Florida Agricultural and Mechanical University, Tallahassee, FL (June 2011)
- EDGE Program strengthens the ability of women and minority students to successfully complete graduate programs in the mathematical sciences

### **University of Evansville, Evansville, IN**

- *Assistant Professor*, Department of Mathematics (2005 – 2011)
- Awarded tenure and promotion to Associate Professor (2011)
- University of Evansville is a private, liberal arts and sciences institution and is affiliated with the United Methodist Church

### **Ivy Tech Community College, Evansville, IN**

- *Adjunct Faculty in Mathematics* (Summer 2007)
- Ivy Tech Community College is Indiana's largest public postsecondary institution and the nation's largest singly accredited statewide community college system

### **The College of New Rochelle, New Rochelle, NY**

- *Assistant Professor*, Department of Mathematics (2003 – 2005)
- The College of New Rochelle was a private, Catholic, women's college and was also a Hispanic-Serving Institution

### **Duke University, Durham, NC**

- *VIGRE Research Associate*, Department of Mathematics (2001 – 2003)
- Advisors: Dr. Michael Reed and Dr. Joseph Blum
- Duke university is private university and is classified as R1: Doctoral Universities – Very high research activity

### **University of Connecticut, Storrs, CT**

- *Teaching Assistant*, Department of Mathematics (September 1996 – August 2001)
- *Instructor*, Project 3000 by 2000 (Summer 2000)
- *Research Mentor*, UConn Mentor Connection (July 2000)
- *Instructor*, Center for Academic Programs (Summer 1997 and 1998)
- University of Connecticut is a public land grant, National Sea Grant and National Space Grant university and is classified as R1: Doctoral Universities – Very high research activity

## OTHER POSITIONS

### **Spelman College**, Atlanta, GA

- *Mathematics Tutor* (February 1994 – May 1996)
- Spelman College is a private, liberal arts, historically black, women's college

### **Cigna**, Hartford, CT

- *Actuarial Intern* (Summer 1995)
- Cigna is a health service company

### **Bentley University**, Waltham, MA

- *Scholar*, Minority Scholars Summer Institute in Accountancy (1994)
- Bentley University is a private university focused on business

### **Bristol-Meyers Squibb, Inc.**, Evansville, IN

- *Pharmaceutical Packaging Intern* (Summer 1993)
- Bristol-Meyers Squibb is a pharmaceutical company

## EDUCATION

*Ph.D. in Mathematics*, University of Connecticut, Storrs, CT (2001)

Dissertation Title: *Mathematical Model of Proteins Acting as On/Off Switches*

Advisor: Dr. Yung-Sze Choi

*M.S. in Mathematics*, University of Connecticut, Storrs, CT (1998)

*B.S. in Mathematics*, Spanish Minor, Magna Cum Laude, Spelman College, Atlanta, GA (1996)

Senior Thesis: *Derivation of Black-Scholes Option Pricing Model*

Advisor: Dr. Jeffrey Ehme

*Study Abroad*, Universidad Autónoma de Guadalajara, Guadalajara, México (Fall 1995)

*Study Abroad*, Liceo Hernán Vargas Ramírez, Juan Viñas, Costa Rica (February 1992 – July 1992)

*Diploma*, Bosse High School, Evansville, IN (1992)

## CONTINUING EDUCATION

*Development for Deans and Academic Leaders*, Council for Advancement and Support of Education (CASE), Miami, FL (January 2023)

*Management Development Program*, Harvard University, Boston, MA (June 2022)

*Fellow of the Executive Leadership Academy (ELA)*, University of California, Berkeley, Berkeley, CA (July 2021)

*Women's Executive Leadership: Business Strategies for Success*, The Wharton School, The University of Pennsylvania, Philadelphia, PA (October 2019)

*Certified Fundraising Executive (CFRE) Course*, Association of Fundraising Professionals (AFP), Winston-Salem, NC (August 2019)

*AFP Fundamentals of Fundraising Course*, Association of Fundraising Professionals (AFP), Winston-Salem, NC (August 2018)

*Advanced Leadership Institute*, Society for the Advancement of Chicanos/Hispanics & Native Americans in Science (SACNAS), Howard Hughes Medical Institute (HHMI), Chevy Chase, MD (June 2016)

*Project Management Certificate*, Georgetown University, Washington, DC (December 2015)  
*Summer Leadership Institute*, Society for the Advancement of Chicanos/Hispanics & Native Americans in Science (SACNAS), American Association for the Advancement of Science (AAAS), Washington, DC (July 2015)

#### RESEARCH INTERESTS

- Applied Mathematics: Applications of differential equations to problems in biology and engineering, nonstandard finite difference schemes, and computational and data sciences
- STEM Education Policy: Mathematics and social justice, STEM diversity, African Americans in STEM, effective strategies for teaching and learning mathematics, and curriculum design

#### PUBLICATIONS

##### Refereed Publications on Applied Mathematics.

- [1] T. Washington. *Mathematical Model of a Protein-Protein Interaction Network*. Nonlinear Studies, Vol. 10, No. 3 (2003), pp. 201-220.
- [2] T. M. Washington, J. J. Blum, M. C. Reed, and P. M. Conn. *A Mathematical Model for LH Release in Response to Continuous and Pulsatile Exposure of Gonadotrophs to GnRH*. Theoretical Biology and Medical Modeling, Vol. 1, No. 9 (2004), pp. 1-17.
- [3] A. D. Jones, P. Ngnepieba, T. M. Washington, and D. K. Rollins. *Mathematical Modeling of the Chemical Vapor Infiltration Process*. Proceedings of the International Conference on Carbon (2007).
- [4] E. H. Goins and T. M. Washington. *A Tasty Combination: Multivariable Calculus and Differential Forms*. The Pentagon, Vol. 69, No. 1 (2009), pp. 11-28.
- [5] E. H. Goins and T. M. Washington. *Sphere-of-Influence Graphs*. Wolfram Demonstrations Project (2010).  
<http://demonstrations.wolfram.com/SphereOfInfluenceGraphs/>
- [6] T. M. Washington. *A Note on Fixed Points of Iterations of Real-Valued Functions*. International Journal of Pure and Applied Mathematics, Vol. 61, No. 3 (2010), pp. 297-300.
- [7] R. E. Mickens and T. M. Washington. *A Note on an NSFD Scheme for a Mathematical Model of Respiratory Virus Transmission*. Journal of Difference Equations and Applications, Vol. 18, No. 3 (2012), pp. 525-529.
- [8] E. H. Goins and T. M. Washington. *The Area of the Surface Generated by Revolving a Graph About any Line*. PRIMUS, Vol. 23, Iss. 2 (2013), pp. 121-132.
- [9] R. E. Mickens and T. M. Washington. *A Note on Exact Finite Difference Schemes for the Differential Equations Satisfied by the Jacobi Cosine and Sine Functions*. Journal of Difference Equations and Applications, Vol. 19, Iss. 2 (2013), pp. 1042-1047.
- [10] T. M. Washington. *NSFD Representations for Polynomial Terms Appearing in the Potential Functions of 1-Dimensional Conservative Systems*. Computers & Mathematics with Applications, Vol. 66, Iss. 11 (2013), pp. 2251-2258.
- [11] R. E. Mickens and T. M. Washington. *NSFD Discretizations of Interacting Population Models Satisfying Conservation Laws*. Computers & Mathematics with Applications, Vol. 66, Iss. 11 (2013), pp. 2307-2316.
- [12] E. H. Goins and T. M. Washington. *On the Generalized Climbing Stairs Problem*. Ars Combinatoria, Vol. 117 (2014), pp. 183-190.
- [13] R. E. Mickens, J. Munyakazi and T. M. Washington. *A Note on the Exact Discretization for a Cauchy-Euler ODE: Application to the Black-Scholes Equation*. Journal of Difference Equations and Applications, Vol. 21, Iss. 7 (2015), pp. 547-552.

- [14] R. E. Mickens and T. M. Washington. *Use of Exact Difference Schemes to Construct NSFD Discretizations of Differential Equations*. Chapter in book “Exact Finite-difference Schemes”, Eds. S. Lemeshevsky, P. Matus, and D. Poliakov. Berlin, Boston: De Gruyter. 2016, pp. 144-164.
- [15] O. Adekanye and T. Washington. *Numerical Comparison of Nonstandard Schemes for the Airy Equation*, International Journal of Applied Mathematical Research, Vol. 6, Iss. 4 (2017), pp. 141-146.
- [16] O. Adekanye and T. Washington. *Nonstandard Finite Difference Scheme for a Tacoma Narrows Bridge Model*, Applied Mathematical Modelling, Vol. 62 (2018), pp. 223-236.
- [17] R. E. Mickens and T. M. Washington. *A Note on a Positivity Preserving Nonstandard Finite Difference Scheme for a Modified Parabolic Reaction-Advection-Diffusion PDE*. Journal of Difference Equations and Applications, Vol. 26, Iss.11-12 (2020), pp. 1423-1427
- [18] R. E. Mickens and T. M. Washington. *The Roles of SIR Mathematical Models in Epidemiology*. Fall 2020 Newsletter of the Forum on the History of Physics, Vol. XIV No. 5 (2020).
- [19] R. E. Mickens and T. Washington. *A note on a positivity preserving hyperbolic NSFD scheme for heat transfer*. Journal of Difference Equations and Applications, Vol. 28, Iss. 1 (2022), pp. 120-125.
- [20] R. E. Mickens and T. Washington. *Construction and analysis of a discrete heat equation using dynamic consistency: The meso-scale limit*. Applied Numerical Mathematics (2023). Available online 23 May 2023, ISSN 0168-9274.

#### **Refereed Publications on STEM Education Policy.**

- [21] T. M. Washington. *Evansville Honors the First Black Ph.D. in Mathematics and His Family*. The Notices of the American Mathematical Society, Vol. 55, Iss. 5 (2008), pp. 588-589.
- [22] M. J. Wolyniak, C. J. Alvarez, V. Chandrasekaran, T. M. Grana, A. Holgado, C. J. Jones, R. W. Morris, A. L. Pereira, J. Stamm, T. M. Washington, and Y. Yang. *Building Better Scientists Through Cross-disciplinary Collaboration in Synthetic Biology: A Meeting Report from the Genome Consortium for Active Teaching Workshop 2010*. CBE-Life Sciences Education, Vol. 9, No. 4 (2010), pp. 399-404.
- [23] R. De Veaux, M. Agarwal, M. Averett, B. Baumer, A. Bray, T. Bressoud, L. Bryant, L. Cheng, A. Francis, R. Gould, A. Y. Kim, M. Kretchmar, Q. Lu, A. Moskol, D. Nolan, R. Pelayo, S. Raleigh, R. J. Sethi, M. Sondjaja, N. Tiruvilumala, P. Uhlig, T. Washington, C. Wesley, D. White, P. Ye. *Curriculum Guidelines for Undergraduate Programs in Data Science*, Annual Review of Statistics and Its Application, Vol. 4 (2017), pp. 2.1-2.16.
- [24] V. R. Morris and T. Washington. *The Role of Professional Societies in STEM Diversity*, Journal of the National Technical Association (NTA), Vol. 87, Iss. 1 (2017), pp. 22-31.
- [25] T. Washington. *Behind Every Successful Woman, There are a Few Good Men*, The Notices of the American Mathematical Society, Vol. 65, Iss. 02 (2018), pp. 132-134.
- [26] V. R. Morris and T. Washington. *The Role of Professional Societies in STEM Diversity*, Reprinted with permission of NTA. The Notices of the American Mathematical Society, Vol. 65, Iss. 02 (2018), pp. 149-159.

#### **Other.**

- [27] R. E. Mickens and T. Washington. *Construction and Analysis of a Discrete Heat Equation Using Dynamic Consistency: The Meso-scale Limit*. arXiv:2301.06580, January 16 (2023), 11 pages.
- [28] T. Washington. *Evansville Man Led Inspiring Life as Math Pioneer*. Evansville Courier & Press, April 18 (2006), p. A7.

- [29] T. Washington. *Low Dropout Rate Helps Us All*. Evansville Courier & Press, July 17 (2006), p. A9.
- [30] T. Washington. *Cyclists Do More Than Spin Wheels*. Evansville Courier & Press, July 29 (2008), p. A6.
- [31] T. Washington. *New Definition of ‘American’ Has Arisen*. Evansville Courier & Press, November 9 (2008), p. A15.
- [32] T. Washington. *Police Diversity Report Does Not Include Full Story*. Evansville Courier & Press, March 13 (2011), p. A12.
- [33] K. Saxe and T. Washington. *AWM Visits to Capitol Hill*, AWM Newsletter, Vol. 46, No. 4 (2016), pp. 8-9.

#### AWARDS AND HONORS

- Phi Beta Kappa Visiting Scholar (2023 – 2024)
- Doctor of Science (D.Sc.), honoris causa, University of Connecticut (May 2023)
- Fellow of the American Academy for the Advancement of Science (2022)
- Fellow of the American Mathematical Society (2021)
- Fellow of the Association for Women in Mathematics (2021)
- Director’s Award for Superior Accomplishment, National Science Foundation (May 2020)
- Sigma Xi, Scientific Research Honor Society, Howard University Chapter (April 2019)
- Outstanding Faculty Award 2018-19, College of Arts and Sciences, Howard University (April 2019)
- NSF Women’s History Maker, National Science Foundation (NSF) (March 2019)
  - [https://www.nsf.gov/news/mmg/mmg\\_disp.jsp?med\\_id=184804](https://www.nsf.gov/news/mmg/mmg_disp.jsp?med_id=184804)
- BEYA STEM Innovator Award, Black Engineer of the Year Awards (BEYA) (February 2019)
- Fellow of the African Scientific Institute (December 2018)
- James R. C. Leitzel Lecturer and Prize Winner, Mathematical Association of America (August 2018)
- Phi Beta Kappa, Academic Honor Society, Gamma of the District of Columbia Chapter at Howard University (April 2017)
  - Phi Beta Kappa Visiting Scholar (2023 – 2024)
- “2017 Featured Teacher: Talitha Washington, Ph.D.”, Center for Excellence in Teaching, Learning, and Assessment (CETLA), Howard University
- HU ADVANCE-IT Achievement Award, Howard University (May 2015)
- Community Service Award, Black Women’s Task Force, Evansville, IN (February 2009)
- Competent Communicator Award, Toastmasters International (Summer 2008)
- Member, Kappa Mu Epsilon, National Mathematics Honor Society (April 2006)
- Project NExT Fellow (New Experiences in Teaching) (2004 – 2005)
- Graduate Scholar, The David and Lucile Packard Foundation (1996 – 2001)
- Minority Fellow, University of Connecticut (1996 – 2001)
- Student Multicultural Award, University of Connecticut (1998)
- Scholars in Mathematics at Spelman (SIMS), Spelman College (1994 – 1996)
- Academic Scholarship, Spelman College (1992 – 1994)
- Pi Mu Epsilon, National Mathematics Honor Society
- Golden Key National Honor Society

## GRANTS AND GIFTS

- [1] Principal Investigator with Co-PIs LaTanya Brown Robertson, Moses Garuba, Sajid Hussain, and Eric Mintz, *NSF INCLUDES Alliance: National Data Science Alliance (NDSA)*, National Science Foundation, NSF 2217346, \$9,998,289 (August 2022)
- [2] Principal Investigator with Co-PIs Binod Manandhar, Eric Mintz, and Sandra Rucker, *Targeted Infusion Project: Implementation of Data Science Courses, Modules, and Capstone Experiences to Enhance Career and Graduate School Readiness*, National Science Foundation, NSF 2205882, \$396,738 (August 2022)
- [3] Co-Principal Investigator with PI Eric Mintz and Co-PI Daniel Teodorescu, *Implementation Project: Data Driven, Engagement Based, Adaptive Learning, Growth Mindset Pedagogy Informed Course Redesign with Early Research Experiences for STEM Student Success*, National Science Foundation, NSF 1912256, \$1,248,741 (May 2019; Joined Project January 2022)
- [4] Co-Principal Investigator with PI Micaela Parker and Co-PIs Krystal Tsosie and Kari Jordan, *Identifying Assets and Collaborative Activities to Support Student Success in Environmental Data Science at Minority Serving Institutions*, National Science Foundation, NSF 2135830, \$99,909 (October 2021)
- [5] Principal Investigator on subaward with MPI Herman Taylor and PI Jamboor Vishwanatha, *Artificial Intelligence/Machine Learning Consortium to Advance Health Equity and Researcher Diversity (AIM-AHEAD) Leadership Core*, National Institutes of Health, No. 1OT2OD032581-01, \$50,000,000 total award and a subaward of \$39,860 (September 2021)
- [6] Principal Investigator with co-PIs Moses Garuba, Sajid Hussain, LaTanya Brown-Robertson, and Jerry Volcy, *Discovery Workshop on Enhancing Data Science Education by Leveraging Data Sets from the African Diaspora*, National Science Foundation, NSF 2136382, \$99,962. (September 2021)
- [7] Co-Principal Investigator with PI Mark Ward and Co-PIs Katherine Ensor, Monica Jackson, and Donna LaLonde, *HDR DSC: National Data Mine Network*, National Science Foundation, NSF 2123321, \$1,500,000. (September 2021)
- [8] Principal Investigator with co-PI Kinnis Gosha, *AUC-Sloan Open Source Software Development Postbaccalaureate Program*, Alfred P. Sloan Foundation, #2021-16700, \$249,994 (March 2021)
- [9] Support for the *AUC Virtual Computer Lab*, Coca-Cola, \$250,000 (December 2020)
- [10] Support for the *AUC Virtual Computer Lab*, SAP, \$110,000 (December 2020)
- [11] Co-Principal Investigator with PI Dennis Davenport and co-PIs Marcus Alfred and Daniel Williams, *Chemistry, Mathematics, and Physics Scholarships (CMaPS) at Howard University*, National Science Foundation, NSF 1356481, \$617,497 (August 2014)
- [12] Principal Investigator on subaward, *Mathematical Biosciences Institute Research Experience for Undergraduates at Howard University*, Mathematical Biosciences Institute, \$10,000 (June 2014)
- [13] Co-Principal Investigator with PI Denisha Jones, *Increasing Teacher Effectiveness Through Focused Professional Development: A Model for Pre-K Teachers*, Office of the State of the State Superintendent of Education (OSSE) Teacher Quality Improvement (TQI) Grant Program, \$100,000 (May 2014)
- [14] Co-Principal Investigator with PI A. Wade Boykin and co-PI Deena Khalil, *Building Connections and Learning Communities among Educators and Researchers at HBCUs*, National Science Foundation, NSF 1242892, \$2,189,715 (September 2012; Joined Project September 2013)



- [15] Principal Investigator, *Harriett G. Jenkins Predoctoral Fellowship* Awarded to Kenyon L. Coleman, National Aeronautics and Space Administration (NASA), \$135,000 (September 2013)
- [16] Support for the *Summer Mathematics and Research Training in Evansville (SMARTE)*, Memorial Community Development Corporation, Evansville, IN; Toyota U. S. A. Foundation, \$3,000 (July 2013)
- [17] Principal Investigator, *Textbook on “Differential Equations and Your World”*, Howard University (HU) ADVANCE-IT Mini-grant, Howard University ADVANCE-IT: Women of Color Faculty in STEM as Change Agents (NSF 1208880), \$10,917 (April 2013)
- [18] Support for *Stepping Up*, Memorial Community Development Corporation, Evansville, IN; funded by Vectren Foundation, \$1,250, Toyota Foundation, \$500, Old National Bank, \$500 (October 2008)
- [19] Support for *The Family Jazz Celebration* featuring the Spelman College Jazz Ensemble, Memorial Community Development Corporation, Evansville, IN; Old National Bank, Alcoa, and Fifth Third Bank (March 2008)
- [20] Support for *Stepping Up*, Memorial Community Development Corporation, Evansville, IN; Vectren Foundation, \$1,563 (August 2007)

#### STUDENT RESEARCH SUPERVISED

##### **Doctoral Theses and Dissertations Directed.**

- Oluwaseye Adekanye, *The Construction of Nonstandard Finite Difference Schemes for Dynamical Systems*, Department of Mathematics, Howard University (2018)

##### **Doctoral Defense Committees Served.**

- Kenneth Dukuza, *Center Manifold Theory for Some Continuous and Discrete Epidemiological Models*, Department of Mathematics and Applied Mathematics, University of Pretoria, South Africa (TBD)
- Valerie Bennet, *The Effectiveness of Adaptive Learning in a Gateway Mathematics Course at a Private HBCU*, Department of Higher Educational Leadership, Clark Atlanta University (2022)
- Kenisha Ford, *Utilizing Biophysical Metrics to Analyze the Propensity of Breast Cancer and Disparities in Its Treatment*, Department of Physics and Astronomy, Howard University (2022)
  - Committee Chairperson
- Mamadou Wade, *Distributed Image Encryption Based on Homomorphic Cryptographic Approach*, Department of Electrical Engineering and Computer Science, Howard University (2017)
- Moussa Doumbia, *Malaria control and eradication in irrigated and non-irrigated regions of Mali and among pregnant women of Ebonyi state in Nigeria*, Department of Mathematics, Howard University (2017)
- Martin Arienmughare, *Three-Four-wave HLLC Riemann Solver for Single and Multiphase Flow, and the Classical and Semi-relativistic CGL-MHD*, Department of Mathematics, Howard University (2016)
  - Committee Chairperson

##### **Graduate Student Research Supervised.**

- Kenyon L. Coleman, *Programming Data-Driven Data Query and Presentation*, Howard University (2013 – 2014)
  - NASA Harriett G. Jenkins Predoctoral Fellowship recipient (September 2013)

## Undergraduate Research Supervised.

- Project Mentor for five undergraduate students, *Modeling the Transmission of the Zika Virus*, Institutional Research Engagement Program at Howard University (IREPHU), Howard University, Washington, DC (Spring 2017)
- Benjamin Liska, *A Mathematical Approach to Uncovering Regulatory Mechanisms in Calcium Homeostasis*, St. Olaf College; Undergraduate Research Program of the Mathematical Biosciences Institute (2014)
- Jennifer Houser, *Modeling Latency of Thalamocortical Fast-Spiking Interneurons in Schizophrenia*, East Tennessee State University; Undergraduate Research Program of the Mathematical Biosciences Institute (2014)
- Jasmine Hopkins, *Mathematical Model of the Intercellular Biological Processes of the Influenza A Virus*, Howard University (2011 – 2012)
  - Student gave an oral presentation at the College of Arts and Sciences Symposium on Undergraduate Research, Howard University (April 2012)
- Christopher Harrison, *Applied Associative Networks*, University of Evansville (Spring 2011)
- Sarah Schulz, *Intracellular Model of HIV Lifecycle*, University of Evansville (2009 – 2010)
  - Student won a presentation award at the National Association of Mathematicians' Undergraduate MATHFest XIX, University of the District of Columbia (November 2009)
- Brian Fillenwarth, *Modeling the Tacoma Narrows Bridge*, University of Evansville (2006 – 2007)
  - Refereed publication
    - Improving the Mathematical Model of the Tacoma Narrows Bridge*. Rose-Hulman Undergraduate Math Journal, **8** (2007), no. 2.
- Amanda Hagerty, *Applications of Differential Equations to Biology*, University of Evansville (Fall 2005)
- Veronica Cambra, *Spherical Geometry*, The College of New Rochelle (2004 – 2005)

## PRESENTATIONS

- [1] Speaker, *The Role of Mathematics in Undergraduate Data Science Program*, MAA MathFest, Mathematical Association of America (MAA), Tampa, FL (August 2023)
- [2] Keynote, *Encouraging Data-Driven Discovery*, MathCON, Georgia Department of Education, Atlanta, GA (June 2023)
- [3] Speaker, *CRA Fireside Chat: Opportunities in Mathematics and Statistics*, Charles River Associates (CRA), Virtual (May 2023)
- [4] Panel Moderator, *Ethics, AI, and Health Disparities*, Symposium, Morgan State University, Baltimore, MD (May 2023)
- [5] Keynote, *How to Create New Frontiers in Data Science*, Grant Writing Retreat. Institute in Critical Quantitative, Computational, & Mixed Methodologies (ICQCM), Atlanta, GA (May 2023)
- [6] Commencement Speaker, *We are Champions in Everything We Do*, Ceremonies University of Connecticut, Storrs, CT (May 2023)
  - Presentation video available at: <https://lnkd.in/gwhhx--D>
- [7] Panelist, *Bridging the Gap: Overcoming the Hurdles in Innovation Culture Across Sectors*, National Academies of Science, Engineering, and Medicine, Washington, DC (May 2023)
  - Presentation video available at: <https://vimeo.com/827386639>
- [8] Speaker, *A Mathematical Journey: From Dynamical Systems to Data Science*, Chief Scientist Distinguished Lecture Series, Air Force Research Laboratory / Air Force Office of Scientific Research (AFRL/AFOSR), virtual (May 2023)

- [9] Speaker, *The Power of Data to Advance Justice*, Evansville African American Museum Annual Meeting, Evansville, IN (April 2023)
- [10] Speaker, *Strategies for Writing Winning Proposals: The Faculty Perspective*, University-Industry Demonstration Partnership (UIDP), Nashville, TN (April 2023)
- [11] Keynote, *The Power of Data to Advance Justice*, Data Science Celebration, HBCU Data Science Consortium, Austell, GA (April 2023)
- [12] Panelist, *TPSE Department Chairs Conversations: Expanding Careers for Math Majors and Graduate Students*, Transforming Post-Secondary Education in Mathematics (TPSE), Virtual (March 2023)
- [13] Speaker, *Endless Frontier Symposium: Follow-Up Meeting*, National Academies of Science, Engineering, and Medicine, Washington, DC (March 2023)
- [14] Speaker, *Developing Capacity to Advance Social Justice Using Data Science and Mathematics*, Annual Meeting, American Academy for the Advancement of Science (AAAS), Washington, DC (February 2023)
- [15] Keynote, *'The Negro Genius': How J Ernest Wilkins Broke Barriers Through Mathematics*, Induction for the Gamma Delta Chapter of Pi Mu Epsilon (PME), Spelman College, Atlanta, GA (February 2023)
- [16] Speaker, *Building a Diverse Pipeline in Data Science*, Chevron Women in Digital, Virtual (February 2023)
- [17] Speaker, *Celebrating Edray Goins*, Conference on Strengthening Community in Research Mathematics, Pomona College, Pomona, CA (February 2023)
- [18] Speaker, *Data Science Townhall*, Emerging Researchers National (ERN) Conference in STEM, Washington, DC (February 2023)
- [19] Panelist, *AMS Committee on Profession: Supporting Faculty in Mentoring Students for Careers Beyond Academia*, Joint Mathematics Meetings, Boston, MA (January 2023)
- [20] Speaker, *Data Science and the African Diaspora: Building a Diverse Community*, Joint Mathematics Meetings, Boston, MA (January 2023)
- [21] Panelist, *Network Conversation: Building Partnerships with Minority Serving Institutions*, NSF INCLUDES National Network, Virtual (November 2022)
- [22] Speaker, *Data & Prosecutorial Performance Workshop*, Association of Criminology Annual Meeting, Atlanta, GA (November 2022)
- [23] Speaker, *Building Innovation in Data Science Through HBCUs*, Distribute Teaching Collaborative's Symposium, Arlington, VA (November 2022)
- [24] Keynote, *Pursuit of New Knowledge & Innovations in Data Science*, Black Doctoral Network Conference, Atlanta, GA (October 2022)
- [25] Keynote, *Pursuit of New Knowledge & Innovations in Data Science*, Research Engagement Week, Jackson State University, Jackson, MS (October 2022)
- [26] Panelist, *Supporting the Supply of Human Capital by Broadening Participation in STEM Education and Work*, GUIRR Meeting: Developing Human Capital to Support U.S. Innovation Capacity, Government-University-Industry Research Roundtable (GUIRR), National Academies of Science, Engineering, and Medicine, Washington, DC (October 2022)
- [27] Speaker, *Breaking Data Science Barriers*, Fisk University, Nashville, TN (October 2022)
- [28] Keynote, *Breaking Data Science Barriers*, Data Days, Georgia Institute of Technology, Atlanta, GA (October 2022)
- [29] Panelist, *Collaborative Research Opportunities*, Ford Atlanta Research and Innovation Center, Atlanta, GA (October 2022)
- [30] Speaker, *Building A Foundation for Empowerment in Data Science*, Women in Data Science (WiDS), Virtual (September 2022)

- [31] Keynote, *A Mathematician's Perspective on How to Address Bias and Ethics in Data Science*, SIAM Conference on Mathematics of Data Science (MDS22), Society for Industrial and Applied Mathematics (SIAM), San Diego, CA (September 2022)
- [32] Moderator, *The Future of Business Education*, Clark Atlanta University School of Business | L45 Summit, Atlanta, GA (September 2022)
- [33] Speaker, *The Mathematical Story of a "Hidden Figure" Katherine Johnson (August 26, 1918 – February 24, 2020)*, Harbins Elemenatry, Dacula, GA (September 2022)
- [34] Speaker, *Creating or Elevating Your Data Science Curriculum*, HBCU Technology Conference, Virtual (September 2022)
- [35] Speaker, *Opportunities and Recent Innovations in Data Science*, Biology Seminar Series, Department of Biological Sciences, Clark Atlanta University, Atlanta, GA (September 2022)
- [36] Keynote, *Finding Your Voice*, Joint Statistical Meetings (JSM) Diversity Workshop, Washington, DC (August 2022)
- [37] Speaker, *Data Science from the HBCU Perspective*, HBCU Digital Literacy Summit, Central State University, Wilberforce, OH (June 2022)
- [38] Panelist, *Blackbird, Fly: The Legacy of Vivienne Malone-Mayes and African-American Women within AWM*, Association for Women in Mathematics (AWM) Research Symposium, University of Minnesota, Minneapolis, MN (June 2022)
- [39] Panelist, *AI/ML*, NITRD 30th Anniversary, Washington, DC (May 2022)
  - o Presentation video available at: <https://youtu.be/XwpQNKQiCoM>
- [40] Speaker, *Strategies for Writing Winning Collaborative Proposals*, IISE Annual Conference & Expo, Institute of Industrial and Systems Engineers (IISE), Seattle, WA (May 2022)
- [41] Plenary Speaker, *Advancing AI and Data Science Through Industry/Academia Collaboration*, MATLAB EXPO 2022, Virtual (May 2022)
  - o Presentation video available at: <https://www.mathworks.com/videos/advancing-ai-and-data-science-through-industry-academia-collaboration-1652775324956.html>
- [42] Panelist, *Opening Plenary: Disrupting Public Opinion Research in the Pursuit of Equity*, American Association for Public Opinion Research, Chicago, IL (May 2022)
- [43] Panelist, *Systemic and Structural Sources of Discrimination*, Becker Friedman Institute, University of Chicago, Chicago, IL (May 2022)
- [44] Plenary Speaker, *Data Science-What is it? Why does it matter? What could it look like for you?*, High School to College Mathematics Pathways Forum, Reston, VA (May 2022)
- [45] Panelist, *Impact of the Pandemic on the Profession*, AMS Committee on the Profession, JMM Workshop, Joint Mathematics Meetings, Seattle, WA (April 2022)
- [46] co-Facilitator, *How to Create at Data Science Training for Faculty and Students*, JMM Workshop, virtual Joint Mathematics Meetings, Seattle, WA (April 2022)
- [47] Panelist, *Exploring the Future of Mathematics Education - What should we be teaching?*, TPSE Panel, Joint Mathematics Meetings, Seattle, WA (April 2022)
- [48] Speaker, *Positivity Preserving Hyperbolic NSFD Scheme for Heat Transfer*, virtual Joint Mathematics Meetings, Seattle, WA (April 2022)
- [49] Panelist, *Impact of the Pandemic on the Profession*, AMS Committee on the Profession Panel, Joint Mathematics Meetings, Virtual (April 2022)
- [50] Speaker, *Positivity Preserving Hyperbolic NSFD Scheme for Heat Transfer*, Joint Mathematics Meetings, Virtual (April 2022)
- [51] Panelist, *Navigating the System*, ColdQuanta, Virtual (March 2022)
- [52] Keynote, *The Art of HBCU Partnerships in Data Science*, Mission in Motion, University-Industry Demonstration Partnership (UIDP), Georgia Institute of Technology, Atlanta, GA (March 2022)

- [53] Panelist, *The College Pathway*, AI4ALL's 5th Birthday Celebration, AI4ALL, Virtual (March 2022)
- [54] Panelist, *Math Equity and the Power of Universities*, The Mathematics of Opportunity conference, Just Equations, Virtual (February 2022)
- [55] Speaker, *Black Revolution in Applying Data Science to Solve Societal Issues*, Maricopa Community College District, Virtual (February 2022)
- [56] Panelist, *Starring Math: Hidden Figures*, National Museum of Mathematics (MoMath), Virtual (February 2022)
- [57] Speaker, *Realizing Dr. King's Dream through S.T.E.A.M.*, Franklin Energy, Virtual (February 2022)
- [58] Speaker, *Empowering Data Science for Social Justice*, Diversity in Computing Speaker Series, Barnard College, Virtual (February 2022)
- [59] Keynote, *Excelling in the Mathematical Community*, Math for all New Orleans, Tulane University, Virtual (February 2022)
- [60] Keynote, *The Choice is Ours*, Kimball Electronics, Inc. seminar, Virtual (January 2022)
- [61] Panelist *From Exascale to Quantum and Beyond: The Future of Federal HPC R&D*, The International Conference for High Performance Computing, Networking, Storage and Analysis (SC21), Virtual (November 2021)
- [62] Spotlight Talk, *How the AUC Data Science Initiative is Catalyzing Data Science*, Data Intelligence SYmposium (DAISY), University of Florida, Virtual (November 2021)
- [63] Keynote, *Advancing Data Science for the African Diaspora*, National Society of Black Physicists Conference, Virtual (November 2021)
- [64] Keynote, *Empowering Data Science for Social Justice*, Louis Stokes Midwest Regional Center of Excellence conference, Virtual (October 2021)
- [65] Lead Speaker, *Data Science in Education*, National Science Foundation (NSF) Directorate for Education and Human Resource (EHR) Town Hall, Virtual (October 2021)
- [66] Keynote, *Strategic Leadership in the Pursuit of Data Science for Black Lives*, Women in Statistics and Data Science (WSDS) Conference, Virtual (October 2021)
- [67] Panelist, *Transforming HBCUs for the 21st Century: The Possibilities with New Funding & Cybersecurity Risks*, HBCU Technology Conference 2021, Virtual (September 2021)
- [68] Speaker, *How the AUC Data Science Initiative is Catalyzing Data Science*, Department of Statistics Seminar, North Carolina State University, Virtual (August 2021)
  - o Presentation video available at: <https://youtu.be/yjB9DD1ZMYE>
- [69] Panelist, National Artificial Intelligence Research Resource Task Force (NAIRR TF) Meeting, Virtual (August 2021)
- [70] Panelist, *The Life Cycle of an Undergraduate Data Science Program*, MAA MathFest, Virtual (August 2021)
- [71] Speaker, *The Mathematical Story of a "Hidden Figure," Katherine Johnson (August 6, 1918 - February 24, 2020)*, MAA MathFest, Virtual (August 2021)
- [72] Address, *Exploring our World Through Data Science*, NSF Summer Scholars Internship Program (SSIP) closing ceremony, Virtual (July 2021)
- [73] Panelist, *Frontiers in Artificial Intelligence and Machine Learning Research and Innovation*, Task Force on American Innovation Webinar Future Forward, Semiconductor Industry Association, Virtual (July 2021)
  - o Presentation video available at: <https://youtu.be/dzrIy60PSL8>
- [74] Speaker, *A Seat at the (Data) Table: Enhancing the Diversity of the AI/ML Workforce*, Artificial Intelligence/Machine Learning (AI/ML) Consortium to Advance Health Equity and Researcher Diversity (AIM-AHEAD), National Institutes of Health (NIH), Virtual (June 2021)
  - o Presentation video available at: <https://youtu.be/PeTMOiKrgwY>

- [75] Keynote, *Exploring our World Through Data Science*, Student STEM and Oratorical Competition, Region XI Council of Blacks In Government (BIG), Virtual (June 2021)
- [76] Presenter, *National Efforts in Data Science Education*, National Workshop on Data Science Education, University of California Berkeley,  
 o Presentation video available at [https://youtu.be/Ecc\\_qxvMqaw](https://youtu.be/Ecc_qxvMqaw)
- [77] Presenter, *About the Atlanta University Center Data Science Initiative*, Women in Tech Ignite, MathWorks Advisory Board 2021 Meeting, Virtual (June 2021)
- [78] Panel Moderator, *Bias in Algorithms and Technology*, Workshop on Mathematics and Racial Justice, Mathematical Science Research Institute, Virtual (June 2021)  
 o Presentation video available at  
<https://www.msri.org/workshops/1012/schedules/29787>
- [79] Keynote, *The STEM Career Advice You Probably Didn't Get*, North Carolina Women of Color Research Network Symposium, Virtual (May 2021)
- [80] Speaker, *How HBCUs are Designing Data Science Pathways*, Designing Mathematics Pathways for Equity, Charles A. Dana Center, The University of Texas at Austin, Virtual (May 2021)  
 o Presentation video available at  
<https://utexas.app.box.com/s/kdke65sb5s3h964fyqwz2vrlv3elnmt7>
- [81] Panelist, *A Conversation with Thought Leaders who are Transforming Mathematics through Diversity, Equity, and Inclusion*, Horizons Seminar, Princeton University (April 2021)
- [82] Speaker, *Ain't I a Scientist: Black Women and STEM*, Blacks in Government (BIG) Chapter, National Science Foundation (March 2021)
- [83] Moderator, *Panel Discussion: Diversity and Data Science Education*, Women in Data Science (WiDS) 2021, Virtual (March 2021)
- [84] Panelist, *Taking the Quantum Leap*, Center for Strategic and International Studies, Virtual (March 2021)  
 o Presentation video available at <https://www.csis.org/events/taking-quantum-leap>
- [85] Featured Speaker, *Building Data Science through Partnerships with Government and Industry*, HBCU/MSI Webinar for MSIs Research Partnership Consortium (MSIRPC) (February 2021)
- [86] Keynote, *The Atlanta University Center Data Science Initiative*, HBCU Data Science Consortium Workshop, Virtual (February 2021)
- [87] Presenter, *The Black Revolution in Data Science*, Atlanta University Center Data Science Seminar Series, Virtual (February 2021)  
 o Presentation video available at [https://youtu.be/c2ANHIxc\\_hk](https://youtu.be/c2ANHIxc_hk)
- [88] Plenary Speaker, *Be the 'Square Root of Possible'*, The Nebraska Conference for Undergraduate Women in Mathematics, Virtual (January 2021)  
 o Presentation video available at <https://youtu.be/s6PLdL9Md3g>
- [89] Panel, *Chucks & Pearls: REAL Women Shattering the Glass Ceiling*, Spark Her Blaze, Virtual (January 2021)  
 o Presentation video available at <https://youtu.be/AwQKY1pEEZM>
- [90] Keynote, *The Fierce Urgency of Now*, Dr. Martin L. King, Jr. Memorial Celebration, University of Southern Indiana, Virtual (January 2021)  
 o Presentation video available at [https://youtu.be/bB\\_-oTVBM7g](https://youtu.be/bB_-oTVBM7g)
- [91] Panelist, *Insights for Increasing Presence of Underrepresented Populations in the Quantitative Sciences*, Department of Quantitative Theory and Methods, Emory University (January 2021)
- [92] Keynote, *Leveraging Data Science at HBCUs to Advance Innovation*, NAM Cox-Talbot Address, Joint Mathematics Meetings, Virtual (January 2021)
- [93] Speaker, *Positivity Preserving Nonstandard Finite Difference Scheme for a Modified Parabolic Reaction-Advection-Diffusion PDE*, Joint Mathematics Meetings, Virtual (January 2021)

- [94] Plenary Speaker, *Excelling in the Mathematical Community*, Triangle Area Graduate Mathematics Conference, Virtual (December 2020)
- [95] Panelist, *Georgia Mathematics Equity Panel*, Georgia Department of Education, Virtual (November 2020)
- [96] Keynote, *‘Why We Can’t Wait’: Using social Justice to Transform Data Science*, Data Science Coast to Coast Seminar Series, Hosted Jointly by Six Academic data Science Institutes, Virtual (October 2020)
  - Presentations video available at <https://youtu.be/wdJDuoxNxnI>
- [97] Panelist, *Building Data Science Opportunities through Academic Partnerships*, Academic Data Science Alliance Data Science Leadership Summit, Virtual (October 2020)
- [98] Keynote, *Indiana: The Genesis of Black PhD Mathematicians*, Fall Meeting of the Indiana Mathematical Association of America, Virtual (October 2020)
- [99] Panelist, *Catalyzing AI Innovation Responsibly through Academia-Industry Collaboration*, Grace Hopper Celebration, Virtual (October 2020)
- [100] Invited Speaker, *Indiana: The Genesis of Black PhD Mathematicians*, Department of Mathematics Colloquium, The University of Texas at Arlington, Arlington, TX (February 2020)
- [101] Speaker, *My Mathematical Journey to Success and Overcoming Challenges*, Hosted by the American Mathematical Society Graduate Chapter, College of Science Black Student Association, and the Society for Industrial and Applied Mathematics Graduate Chapter, The University of Texas at Arlington, Arlington, TX (February 2020)
- [102] Speaker, *How to Be an Unhidden Figure in Science*, Black Cultural Center, Purdue University, West Lafayette, IN (February 2020)
- [103] Invited Speaker, *Indiana: The Genesis of Black PhD Mathematicians*, Graduate Student Invited Mathematics Colloquium Speaker, Purdue University, West Lafayette, IN (February 2020)
- [104] Speaker, *NSFD Schemes: A Methodology for Constructing Structure Preserving Discretizations for Differential Equations*, Joint Mathematics Meetings, Denver, CO (January 2020)
- [105] Speaker, *Dr. Roselyn Williams: The Work and Influence of a Woman Math Warrior*, Joint Mathematics Meetings, Denver, CO (January 2020)
- [106] Panelist, *Things I Wish I Knew When I Started Out My Career and How to Win at Work Without Losing in Life: A Modern Day Approach to Work-Life Balance*, Global Women in STEM Leadership Summit, Atlanta, GA (November 2019)
- [107] Keynote, *Nonstandard Finite Difference Schemes for a Nonlinear World*, Regional Undergraduate Math Research Conference, Towson University, Towson, MD (November 2019)
- [108] Keynote, *My Mathematical Journey to Success and Overcoming Challenges*, Annual Diversity Graduate Research Symposium, University of Florida, Gainesville, FL (October 2019)
- [109] Host, *Untold Stories of Black Mathematicians with Scott Williams*, Mathematical Association of America (MAA), Washington, DC (September 2019)
- [110] Keynote, *Positioning Students to be Successful*, Opening Session for MAA Project NExT (New Experiences in Teaching), Mathematical Association of America (MAA), Cincinnati, OH (July 2019)
- [111] Keynote, *Women of Color in STEM: Best Practices for and New Research on Recruitment and Retention of Blacks or African Americans, Hispanics or Latinos, and American Indians or Alaska Natives*, Big Ten Academic Alliance Summit on Advancing Undergraduate Women in STEM, Douglass Residential College, Rutgers University, New Brunswick, NJ (June 2019)
- [112] Speaker, *Math, Politics, and “The Negro Genius”: The Story of J Ernest*, Organized by the National Association of Mathematicians as a pre-event for the National Math Festival, Howard University, Washington, DC (May 2019)

- [113] Moderator and Speaker, *Reestablishing Our Connection with the Communities that We Service: STEM at HBCUs*, NAM's Regional Faculty Conference on Research and Teaching Excellence, National Association of Mathematicians (NAM), Texas Southern University, Houston, TX (April 2019)
- [114] Keynote, *How Modeling Can Explain Our World*, Warrington Science Symposium, Shenandoah University, Winchester, VA (April 2019)
- [115] Invited Speaker, *Hidden Figures: The Mathematics of Katherine Johnson and Nonstandard Finite Difference Schemes for a Nonlinear World*, Pi Mu Epsilon Conference, Saint John's University, Collegeville, MN (April 2019)
- o Presentations videos are available at <https://www.youtube.com/watch?v=J-w3A8Kk8xw> and <https://www.youtube.com/watch?v=yuEIjedFNSY>
- [116] Speaker, *The Relationship Between Culture and Learning in STEM: Best Practices to Broaden Participation and Student Engagement*, Center for Excellence in Teaching, Learning, and Assessment (CETLA), Howard University, Washington, DC (February 2019)
- [117] Speaker, *Hidden Figures: The Mathematics of Katherine Johnson*, Undergraduate Speaker Series, Allegheny College, Meadville, PA (February 2019)
- [118] Panelist, *Making the Most of Graduate School*, Black Engineer of the Year Awards (BEYA) STEM Conference, Washington, DC (February 2019)
- [119] Speaker, *Bifurcations as the Genesis of Instabilities in the Numerical Solutions to Differential Equations*, Joint Mathematics Meetings, Baltimore, MD (January 2019)
- [120] Invited, *Hidden Figures: The Mathematics of Katherine Johnson and Rudy Horne*, Joint Mathematics Meetings, Baltimore, MD (January 2019)
- [121] Invited, *Prime Factors*, The Story Collider, Joint Mathematics Meetings, Baltimore, MD (January 2019)
- [122] Invited Speaker, *The Math of Mickens*, Blackwell-Tapia Conference, Institute for Computational and Experimental Research in Mathematics (ICERM), Providence, RI (November 2018)
- o Presentation video available at <https://brown.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=2b5f3ecb-d81e-4408-8ece-a99201451bc3>
- [123] Keynote, *Nonstandard Finite Difference Schemes for a Nonlinear World*, Texas Undergraduate Mathematics Conference, Stephen F. Austin State University, Nacogdoches, TX (November 2018)
- [124] Keynote, *Forward Vision in STEM*, Hispanic/Latinx Voices in Academia 2018, Clemson University, Clemson, SC (October 2018)
- [125] Invited, *Preserving Conservation Laws in the Construction of Nonstandard Finite Difference Schemes*, Invitation to Mathematics Conference, Texas Southern University, Houston, TX (September 2018)
- [126] Invited, *Hidden Figures: The Mathematics of Katherine Johnson and Rudy Horne*, Lamar University, Beaumont, TX (September 2018)
- [127] Invited, *How to Be an Unhidden Figure in Science*, National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE) Conference, Orlando, FL (September 2018)
- [128] Invited James R. C. Leitzel Lecturer, *The Relationship between Culture and the Learning of Mathematics*, Mathematical Association of America (MAA) Mathfest, Denver, CO (August 2018)
- [129] Panelist, *Life and Your Mathematical Career: Finding a Healthy Balance*, Project NExT, Mathematical Association of America (MAA) Mathfest, Denver, CO (August 2018)
- [130] Speaker, *Facilitating STEM Diversity in Organizations*, American Statistical Association Department Chairs Workshop, Alexandria, VA (June 2018)



- [131] Speaker, *-ISM Vortex*, Changing the Face of STEM, National Academy of Sciences, Washington, DC (June 2018)
  - o Presentation video available at <https://www.dropbox.com/s/foehojxfkvfad45/STEMVortex.mov?dl=0>
- [132] Speaker, *Rudy Horne: The Mathematical Consultant of the Hidden Figures Movie*, SIAM Conference on Nonlinear Waves and Coherent Structures, Orange, CA (June 2018)
- [133] Keynote, *The Howard Commission: Equal Rights and Knowledge for All*, Phi Beta Kappa Banquet, Howard University, Washington, DC (May 2018)
- [134] Keynote, *My STEM Journey*, Innovative Scholarship Reception, National Society of Black Engineers (NSBE) Washington DC Metro Area Chapter, SiriusXM, Washington, DC (May 2018)
- [135] Speaker, *Outlier: The Story of Katherine Johnson*, a PBS documentary (Broadcast premier April 2018)
- [136] Speaker, *Mathematics, Politics, and Diversity*, AAAS Pre-Rally for March for Science, American Association for the Advancement of Science (AAAS), Washington, DC (April 2018)
  - o Presentation video available at [https://youtu.be/2R\\_-GYb1nSY?t=19m8s](https://youtu.be/2R_-GYb1nSY?t=19m8s)
- [137] Speaker, *Negotiation and Self-Advocacy*, Infinite Possibilities Conference (IPC), Howard University, Washington, DC (April 2018)
- [138] Speaker, *My STEM Journey to Justice*, Latinx in STEM Disciplines and Higher Education, Latinx in the Mathematical Sciences Conference, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, CA (March 2018)
  - o Presentation video available at <https://youtu.be/IUjV105KaRQ?t=4m58s>
- [139] Tech Talk, *Big Ideas in STEM Innovation*, An Evening with BEYA's Leading Voices, Black Engineer of the Year Award (BEYA) Conference, Washington, DC (February 2018)
  - o Presentation video available at <https://youtu.be/wXp-xtzysb8?t=47m11s>
- [140] Keynote, *Hidden Figures: Bringing Math, Physics, History, and Race to Hollywood* (originally to be given by Dr. Rudy Horne of Morehouse College), Dr. Marjorie Lee Browne Colloquium as part of the University of Michigan's Rev. Dr. Martin Luther King, Jr. Symposium, University of Michigan, Ann Arbor, MI (January 2018)
  - o Presentation video available at <https://tinyurl.com/umichmlk2018>
- [141] Speaker, *Constructing Nonstandard Finite Difference (NSFD) Schemes for Dynamical Systems*, Joint Mathematics Meetings, San Diego, CA (January 2018)
- [142] Speaker, *The Role of Professional Societies in STEM Diversity*, Joint Mathematics Meetings, San Diego, CA (January 2018)
- [143] Virginia L. Chatelain Memorial Lecturer, *Finite Difference Schemes that Achieve Dynamical Consistency for Population Models*, Kansas State University, Manhattan, Kansas (November 2017)
- [144] Plenary Speaker, *Exploring the Mathematics of the 'Hidden Figures'*, University of North Carolina at Greensboro Regional Mathematics and Statistics Conference, Greensboro, NC (November 2017)
- [145] Speaker, *The "Firsts" in STEM: Modern Day 'Hidden Figures'*, MAA MathFest, Chicago, IL (July 2017)
- [146] Speaker, *The Scientific and Mathematical Impact of J Ernest Wilkins*, MAA MathFest, Chicago, IL (July 2017)
- [147] Panelist, *IBL Diversity: Yesterday, Today, and Tomorrow*, Constructing the Future of IBL Conference: The Past 20 Years and the Next 20 Years, Academy of Inquiry Based Learning (IBL), MAA MathFest, Chicago, IL (July 2017)
- [148] Speaker, *Stage Presence and the Basics of Technical Presentations*, Summer Program In Research and Learning (SPIRAL), Morgan State University, Baltimore, MD (July 2017)

- [149] Speaker, *Stage Presence and the Basics of Oral Technical Presentations*, Undergraduate Summer Internship Program (USIP), National Oceanic and Atmospheric Administration Center for Atmospheric Sciences, Howard University, Washington, DC (July 2017)
- [150] Storyteller, *Solve for Your X: A Story about Katherine Johnson*, Children's Defense Fund Freedom School, Howard University, Washington, DC (July 2017)
- [151] Speaker, *Hidden Figures*, Society for Industrial and Applied Mathematics (SIAM) Annual Meeting, Pittsburgh, PA (July 2017)
- [152] Invited Speaker, *Preserving Conservation Laws in the Construction of Nonstandard Finite Difference Schemes*, Conference for the Exchange of Mathematical Ideas, University of Northern Iowa, Cedar Falls, IA (June 2017)
- [153] Panelist, *Education, New Directions: Data Science for Homeland Security*, The 2017 Annual Meeting of the Command, Control & Interoperability Center for Advanced Data Analysis (CCICADA), Howard University, Washington, DC (May 2017)
- [154] Speaker, *Hidden Figures*, Faith & Film Series, Westminster Presbyterian Church, Washington, DC (May 2017)
- [155] Keynote, *Bounce Back and Stay Committed to Mathematical Excellence*, Awards and Celebration Banquet, Elon University, Elon, NC (April 2017)
- [156] Speaker, *How Modeling Can Explain Our World*, Department of Mathematics and Statistics Colloquium, Elon University, Elon, NC (April 2017)
- [157] Keynote, *The Mathematics of the 'Hidden Figures'*, National Math Festival, Washington, DC (April 2017)
  - o Presentation video available at [www.nationalmathfestival.org/dr-talitha-washington-howard-university-4207](http://www.nationalmathfestival.org/dr-talitha-washington-howard-university-4207)
- [158] Keynote, *Ethics of Mathematics in Science, Society, and Students*, 100<sup>th</sup> Annual Meeting of the Kentucky Section of the Mathematical Association of America, Berea College, Berea, KY (March 2017)
- [159] Keynote, *How Modeling Can Explain Our World*, Hollins Science Seminar, Hollins University, Roanoke, VA (March 2017)
- [160] Speaker, *Preserving Conservation Laws in the Construction of Nonstandard Finite Difference Schemes*, STEAM-H Seminar, Virginia State University, Petersburg, VA (January 2017)
- [161] Speaker, *Nonstandard Finite Difference Schemes: the Mathematics of Ronald Mickens*, Joint Mathematics Meetings, Atlanta, GA (January 2017)
- [162] Speaker, *Employing Conservation Laws to Construct Nonstandard Finite Difference Schemes*, Joint Mathematics Meetings, Atlanta, GA (January 2017)
- [163] Speaker, *Some Surprising Ways to Use Mathematics to Solve Big Questions*, Mathematics Seminar, Montgomery College, Rockville, MD (December 2016)
- [164] Speaker, *Training In-service Teachers to Think Deeply about Modeling in the Common Core Movement*, SIAM Conference on Applied Mathematics Education, Philadelphia, PA (September 2016)
- [165] Keynote, *Best Practices in Designing and Implementing Courses which Combining Biology and Mathematics*, National Academies Special Topics Summer Institute on Lowering the Activation Energy: Making Quantitative Biology More Accessible, North Carolina State University, Raleigh, NC (June 2016)
- [166] Keynote, *Demystifying STEM*, African American Girls Expanding Mathematics (AAGEM) 2016, California State University Channel Islands, Camarillo, CA (April 2016)
- [167] Speaker, *I Dream A World...of Mathematics*, African-American Women in STEM: The Trek beyond the Ph.D., California State University Channel Islands, Camarillo, CA (April 2016)
- [168] Panelist, *Demystifying STEM*, Multicultural Awareness Week, Northern Virginia Community College, Loudoun Campus, Sterling, VA (April 2016)

- [169] Keynote, *Blood, Ebola, and Zombies: Using Mathematics to Uncover the Mysteries of Biological Processes*, Central States Mathematics Undergraduate Conference (CeSMUR), Truman State University, Kirksville, MO (April 2016)
- [170] Panelist, *New Faculty Issues*, Faculty Retreat, Howard University Faculty Senate, Howard University, Washington, DC (April 2016)
- [171] Speaker, *A Lab-Style Proof and Problem Solving Course*, Joint Mathematics Meetings, Seattle, WA (January 2016)
- [172] Keynote, *The Ubiquity of Mathematical Biology*, Fall 2015 Meeting of the MD-DC-VA Section of the Mathematical Association of America, St. Mary's College of Maryland, St. Mary's, MD (November 2015)
- [173] Speaker, *Workshops, Conferences, and REUs Oh My! My Experiences at MBI*, Modern Math Workshop, Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS), Gaylord National Resort & Convention Center, National Harbor, MD (October 2015)
- [174] Speaker, *Let Me Get You Hip to the STEM Game*, African-American Heritage Assembly, Parkland Magnet Middle School for Aerospace Technology, Rockville, MD (February 2015)
- [175] Panelist, *Careers Using Mathematics*, Nebraska Conference for Undergraduate Women in Mathematics (NCUWM), University of Nebraska–Lincoln, Lincoln, NE (January 2015)
- [176] Speaker, *Construction of Nonstandard Finite Difference Schemes*, Departmental Colloquium, United States Naval Academy, Annapolis, MD (November 2014)
- [177] Speaker, *Blood, Brains, and Ebola: A Mathematical Exploration of Physiological Processes*, Hood College, Frederick, Maryland (November 2014)
- [178] Speaker, *“Tale as old as time/Song as old as rhyme”*: *Mathematics and Biology*, Society for the Advancement of Chicanos and Native Americans in the Sciences National Conference, Los Angeles, CA (October 2014)
- [179] Speaker, *My Route to Tenure*, Society for the Advancement of Chicanos and Native Americans in the Sciences National Conference, Los Angeles, CA (October 2014)
- [180] Keynote, *Navigating the STEM Jungle: Tips, Tricks, and Techniques Every Woman Needs to Know*, Increasing the Diversity of Women in the Sciences: Advantages of and Pathways to the Ph.D., University of Hawai'i at Manoa (May 2014)
- [181] Speaker, *An Introduction to Nonstandard Finite Difference Schemes*, Applied Math and Computation Seminar, Oregon State University (April 2014)
- [182] Speaker, *STEM Heroes*, Oregon State University (April 2014)
- [183] Speaker, *STEM Heroes*, Howard University SIAM (Society for Industrial and Applied Mathematics) Week, Howard University (April 2014)
- [184] Speaker, *STEM Heroes*, Trinity Washington University (April 2014)
- [185] Speaker, *Capturing Physiological Processes Via Dynamical Systems Modeling, Advancing Computational Biology @ Howard University Symposium*, Howard University (March 2014)
- [186] Speaker, *Careers in Mathematics*, Math Night, Harmony Hills Elementary School, Silver Spring, MD (February 2014)
- [187] Speaker, *Nonstandard Finite Difference Discretizations of Population Models Satisfying Conservation Laws*, Joint Mathematics Meetings, Baltimore, MD (January 2014)
- [188] Speaker, *Construction of Nonstandard Finite Difference Schemes*, Applied Mathematics Lecture Series, Shippensburg University, Shippensburg, PA (November 2013)
- [189] Panelist, *Career*, Undergraduate Research Conference at the Interface of Biology and Mathematics, National Institute for Mathematical and Biological Synthesis (NIMBioS), Knoxville, TN (November 2013)

- [190] Invited Speaker, *Understanding Calcium Regulation Via Mathematical Modeling*, Fall Eastern Sectional Meeting of the American Mathematical Society, Temple University, Philadelphia, PA (October 2013)
- [191] Speaker, *L<sup>A</sup>T<sub>E</sub>X Tutorial*, Mathematics Graduate Student Seminar, Howard University, Washington, DC (September 2013)
- [192] Speaker, *A Glimpse of Dynamical Modeling in the Biosciences*, MSRI Undergraduate Program (MSRI-UP), Mathematical Sciences Research Institute, Berkeley, CA (July 2013)
- [193] Speaker, *A Glimpse of Mathematical Modeling in the Biosciences*, Summer Program In Research And Learning (SPIRAL), University of Maryland, College Park, MD (June 2013)
- [194] Speaker, *Give Your Pi a Break*, Parkland Middle School, Rockville, MD (March 2013)
- [195] Speaker, *Modeling with Nonstandard Finite Difference Schemes in Biology*, Women's Research Symposium, Howard University (March 2013)
- [196] Speaker, *Queen of the Sciences: Using Mathematics to Understand Phenomena*, Research Forum, College of Arts and Sciences, Howard University (February 2013)
- [197] Panelist, *Five Fingers of STEM: Graduate Fellowships and Other Programs Students Should Know About*, Howard University, Washington, DC (October 2012)
- [198] Invited Speaker, *Cells and Hormones and Diseases, Oh My! Applications of Mathematical Modeling to the Biosciences*, Department of Biological Sciences Seminar, Clark Atlanta University, Atlanta, GA (October 2012)
- [199] Invited Speaker, *Nonstandard Finite Difference Discretizations of Population Models Satisfying Conservation Laws*, Applied Math Colloquium, University of Maryland, Baltimore County, MD (September 2012)
- [200] Keynote Speaker, *Graduate Fellowships and Other Programs Students Should Know About*, Undergraduate Research Capstone Conference, Mathematical Biosciences Institute (MBI), The Ohio State University, Columbus, OH (August 2012)
- [201] Presenter, *Infusing the Flavor of Mathematical Biology Research into the Undergraduate Experience*, MAA MathFest, Madison, WI (July 2012)
- [202] Presenter, *Designing a Research-based Mathematical Biology Course*, The Society for Mathematical Biology Annual Meeting and Conference, Knoxville, TN (July 2012)
- [203] Panelist, *Balancing Work and Family*, Preparing Future Faculty Summer Institute, Washington, DC (June 2012)
- [204] Presenter, *NSFD Representations for Polynomial Terms Appearing in the Potential Functions of 1-Dim Conservative Systems*, Progress on Difference Equations, Virginia Commonwealth University, Richmond, VA (May 2012)
- [205] Panel Moderator, *Next Steps: Statistics and Probability Beyond Blackwell's Contributions*, David Blackwell Memorial Conference, Howard University, Washington, DC (April 2012)
- [206] Invited Speaker, *The Interplay Between Mathematics and Biology*, Short Course: Applications of mathematics to Biology, Infinite Possibilities Conference, University of Maryland, Baltimore County, Baltimore, MD (March 2012)
- [207] Panelist, *What Should I Do After College?*, Infinite Possibilities Conference, University of Maryland, Baltimore County, Baltimore, MD (March 2012)
- [208] Panelist, *Applying for Jobs*, Spring Opportunities Workshop, Mathematical Sciences Research Institute (MSRI), Berkeley, CA (March 2012)
- [209] Presenter, *Getting to Know Mathematicians of the African Diaspora*, Trinity Washington University, Washington, DC (February 2012)
- [210] Presenter, *Taking Instruction with Numerical Computations to the Next Octave*, Joint Mathematics Meetings, Boston, MA (January 2012)
- [211] Presenter, *From Cells to Bridges: Modeling with Differential Equations*, Department of Mathematics Colloquium, Howard University, Washington, DC (September 2011)

- [212] Presenter, *The Role of Geometry in Higher Education/Brief History of NAM*, 83rd Annual National Technical Association Conference, Howard University, Washington, DC (September 2011)
- [213] Panelist, *Coming Together to Get It Together Minority Technical Organizations*, 83rd Annual National Technical Association Conference, Howard University, Washington, DC (September 2011)
- [214] Presenter, *From Cells to Bridges: Modeling with Differential Equations*, Department of Mathematics Colloquium, Morgan State University, Baltimore, MD (September 2011)
- [215] Invited Presenter, *From Cells to Bridges: Modeling with Differential Equations*, Summer Program for Women in Mathematics, The George Washington University, Washington, DC (July 2011)
- [216] Presenter, *A Discussion on the 'Double Bind: The Price of Being a Minority Woman in Science'*, STEM Women of Color Conclave, Atlanta, GA (June 2011)
- [217] Keynote Speaker, *Axioms of Success: A Spelman Woman's Mathematical Journey*, Etta Z. Falconer Mathematics Lecture, Spelman College, Atlanta, GA (April 2011)
- [218] Presenter, *Revisiting College Geometry: Making it Relevant for Math, Math Education and Elementary Education Students*, Joint Mathematics Meetings, New Orleans, LA (January 2011)
- [219] Invited Presenter, *Galloping Gertie Revisited: Demystifying the Collapse of the Tacoma Narrows Bridge*, Blackwell-Tapia Conference, Mathematical Biosciences Institute, Columbus, OH (November 2010)
- [220] Panelist, *Intersections of Diversity: At Home and Abroad*, International Education Week, University of Evansville, Evansville, IN (November 2010)
- [221] Presenter, *Connecting First-Year students to Current Trends in Mathematical Biology*, MathFest, Pittsburgh, PA (August 2010)
- [222] Presenter, *A Conversation about African-American Mathematicians*, Evansville African American Museum, Evansville, IN (April 2010)
- [223] Presenter, *Diversity and the Allegheny Advantage*, Allegheny College, Meadville, PA (April 2010)
- [224] Presenter, *Dr. Elbert Frank Cox and Sequences*, College Mentor for Kids, University of Evansville, Evansville, IN (March 2010)
- [225] Presenter, *Confluent Graphs: Making Graphs Pretty*, Joint Mathematics Meetings, San Francisco, CA (January 2010)
- [226] Panelist, *Research and Professional Careers in the Mathematical Sciences*, National Association of Mathematicians' Undergraduate MATHFest XIX, University of the District of Columbia, Washington, DC (November 2009)
- [227] Presenter, *SIGs on Cycles*, Math Coffee Hour, University of Evansville (November 2009)
- [228] Presenter, *The FitzHugh-Nagumo Model for Neural Impulses*, Cognitive and Neural Science Research Group, University of Evansville, Evansville, IN (October 2009)
- [229] Panelist, *Graduate and Professional School Forum*, Career Services and Cooperative Education, University of Evansville, Evansville, IN (September 2009)
- [230] Presenter, *Confluent Graphs*, Visual Analytics and its Applications, Reconnect Conference 2009, Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), Piscataway, NJ (August 2009)
- [231] Presenter, *SIGs on Cycles*, Research Experiences for Undergraduate Faculty, American Institute of Mathematics (AIM), Palo Alto, CA (July 2009)
- [232] Presenter, *Modeling Intracellular Processes*, Morehouse College, Atlanta, GA (May 2009)
- [233] Presenter, *Modeling: Differential Equations & Biology*, Wittenberg University, Springfield, OH (March 2009)

- [234] Keynote Speaker, *Women and Diversity*, Media Stereotypes in Hollywood and Corporate America, Women's History Month, Wittenberg University, Springfield, OH (March 2009)
- [235] Presenter, *Galloping Gertie*, Kappa Mu Epsilon Annual Initiation, University of Evansville, Evansville, IN (March 2009)
- [236] Presenter, *The Great Debaters: A Female's Perspective*, Gender and Women's Studies Brown Bag Series, University of Evansville, Evansville, IN (March 2009)
- [237] Presenter, *The Life and Legacy of Dr. Elbert F. Cox: 1st Black Ph.D. in Mathematics*, Black History at Lunchtime Series, Vanderbilt University, Nashville, TN (February 2009)
- [238] Guest, *Dr. Elbert Frank Cox*, AM Evansville, WTVW Fox 7 News, Evansville, IN (February 2009)
- [239] Presenter, *College 101*, YMCA of Southwestern Indiana College Prep Academy visit, University of Evansville, Evansville, IN (February 2009)
- [240] Panelist, *African Americans as Educators*, National Black Student Union Conference, Lincolnshire, IL (November 2008)
- [241] Moderator, *Barack Obama: Redefining Race in America?* University of Evansville, Evansville, IN (November 2008)
- [242] Poster Presenter, *A Complete Solution to the Climbing Stairs Problem*, Blackwell-Tapia Conference, Statistical and Applied Mathematical Sciences Institute (SAMSI), Research Triangle Park, NC (November 2008)
- [243] Speaker, *Disproportionality: Prejudice in our Schools*, Emeriti Faculty Group, University of Evansville, Evansville, IN (November 2008)
- [244] Guest Lecturer, *Women and Diversity*, Intro to Women's Studies course, University of Evansville, Evansville, IN (October 2008)
- [245] Guest, *Dr. Elbert Frank Cox*, WIKY 104.1 FM, Morning Show, Evansville, IN (August 2008)
- [246] Moderator, University of Evansville Annual African American Alumni Association Meeting, University of Evansville, Evansville, IN (April 2008)
- [247] Presenter, *1925: Dr. Elbert Frank Cox and David Curtiss Stephenson*, Wednesday Mornings at UE, University of Evansville, Evansville, IN (April 2008)
- [248] Keynote Speaker, *National Honor Society Induction Ceremony*, Bosse High School, Evansville, IN (March 2008)
- [249] Panelist, *Women in Engineering Math and Sciences Panel Discussion*, Society of Women in Engineering, University of Evansville, Evansville, IN (November 2007)
- [250] Presenter, *Benefits of Undergraduate Research and Internship Opportunities*, Infinite Possibilities Conference, North Carolina State University, Raleigh, NC (November 2007)
- [251] Moderator, *City Council Debates*, WNIN, Public Broadcasting for the Evansville Tri-State, Evansville, IN (October 2007)
- [252] Presenter, *College 101*, Bosse High School, Evansville, IN (September 2007)
- [253] Presenter, *Modeling: Differential Equations and Biology*, Summer Undergraduate Mathematical Sciences Research Institute, Miami University of Ohio, Oxford, OH (July 2007)
- [254] Presenter, *Discrete Logistic Model in Calculus II*, Joint Mathematics Meetings, New Orleans, LA (January 2007)
- [255] Presenter, *Stories of African Americans Who Earned PhDs in Mathematics*, The Andiron Lecture Series, University of Evansville, Evansville, IN (October 2006)
- [256] Guest, WGBF 1280 AM, Evansville, IN (September 2006)
- [257] Presenter, *Modeling the Spread of Gonorrhoea*, MathFest, Knoxville, TN (August 2006)
- [258] Presenter, *Math Workshop on Sequences and Linear Modeling*, Options for Girls, University of Evansville, Evansville, IN (June 2006)
- [259] Keynote Speaker, *Dr. Elbert Frank Cox*, Kappa Mu Epsilon Annual Initiation, University of Evansville, Evansville, IN (April 2006)

- [260] Presenter, *Math Workshop for Grades 3, 4, and 5*, Joshua Academy, Evansville, IN (April 2006)
- [261] Presenter, *Dr. Elbert F. Cox*, Kids on Campus, University of Evansville, Evansville, IN (March 2006)
- [262] Presenter, *Mathematicians of the African Diaspora*, University of Evansville, Evansville, IN (February 2006)
- [263] Presenter, *African-American Studies Class*, Bosse High School, Evansville, IN (October 2005)
- [264] Presenter, *Mathematicians of the African Diaspora*, Faculty Forum, The College of New Rochelle, New Rochelle, NY (March 2005)
- [265] Presenter, Faculty Forum, The College of New Rochelle, New Rochelle, NY (November 2003)
- [266] Presenter, *A Mathematical Model for LH Release by Gonadotrophs in Response to Medium-Term Exposure to GnRH*, Mathematical Biology Seminar, University of Michigan, Ann Arbor, MI (November 2003)
- [267] Presenter, *Math Model of LH Release in Response to GnRH*, Packard Graduate Scholars Meeting, Monterrey, CA (July 2002)
- [268] Poster Presenter, *A Mathematical Model of GnRH Stimulated Luteinizing Hormone Release*, The Endocrine Society's 84th Annual Meeting, San Francisco, CA (June 2002)
- [269] Presenter, *A Mathematical Model of GnRH Stimulated Luteinizing Hormone Release from the Pituitary Gonadotrope at the Cellular Level*, Graduate/Faculty Seminar, Duke University, Durham, NC (November 2002)
- [270] Presenter, *Mathematical Model of Proteins Acting as On/Off Switches*, Graduate/Faculty Seminar, Duke University, Durham, NC (November 2001)
- [271] Presenter, *The Fitz Hugh-Nagumo Model for Neural Impulses*, Graduate Student Seminar, University of Connecticut, Storrs, CT (August 2000)
- [272] Poster Presenter, *Mathematical Model of Proteins Acting as On/Off Switches*, Gordon Research Conference on Theoretical Biology and Biomathematics, Tilton, NH (June 2000)
- [273] Poster Presenter, *Derivation of Black-Scholes Option Pricing Model*, Mathematical Association of America Regional Meeting, University of Alabama in Huntsville, Huntsville, AL (April 1996)

### **NSF Presentations.**

- [1] Presenter, *NSF Convergence Accelerator*, The University of the District of Columbia, Washington, DC (May 2020)
- [2] co-Presenter, *NSF Funding Opportunities in the Education and Human Resources Directorate and the Division of Mathematical Sciences*, Joint Mathematics Meetings, Denver, CO (January 2020)
- [3] e-Presenter, *Introduction to NSF HSI Program Elements*, HSI Grantsmanship Institute, Alliance of Hispanic Serving Institutions (AHSIE) (January 2020)
- [4] Panelist, *Federal Funding Opportunities for HSIs*, Hispanic Association of Colleges and Universities (HACU) Conference, Atlanta, GA (October 2019)
- [5] Presenter, *NSF Funding Opportunities for HBCU Faculty*, National Association of Mathematician's MathFest conference, Southern University of New Orleans, New Orleans, LA (September 2019)
- [6] Presenter, *National Science Foundation Workshop*, Dillard University, New Orleans, LA (September 2019)
- [7] co-Presenter, *NSF Grant Training Workshop*, California State University Long Beach, Long Beach, CA (August 2019)

- [8] co-Presenter, *Jumpstarting your Scholarship: Grantsmanship*, MAA Project NExT (New Experiences in Teaching), Mathematical Association of America (MAA), Cincinnati, OH (August 2019)
- [9] co-Presenter, *National Science Foundation Funding Opportunities in the Education and Human Resources Directorate*, MAA MathFest, Cincinnati, OH (August 2019)
- [10] Presenter, *Finding and Responding to an NSF Call*, HSI STEM Hub Jumpstart Grantsmanship Workshop, Cal Poly Pomona, Pomona, CA (July 2019)
- [11] Presenter, *Finding and Responding to an NSF Call*, HSI STEM Hub Jumpstart Grantsmanship Workshop, Dona Ana Community College, Las Cruces, NM (June 2019)
- [12] Presenter, *NSF Active Listening Session*, Joint PtC (Progress Through Calculus) / SEMINAL (Student Engagement in Mathematics through an Institutional Network for Active Learning) Conference, University of Nebraska-Lincoln, Lincoln, NE (May 2019)
- [13] Presenter, *Funding Opportunities at the National Science Foundation*, NAM's Regional Faculty Conference on Research and Teaching Excellence, National Association of Mathematicians (NAM), Texas Southern University, Houston, TX (April 2019)
- [14] co-Presenter, *Funding Opportunities for HSIs Workshop*, Capitol Form on Hispanic Higher Education, Hispanic Association of Colleges and Universities (HACU) (April 2019)
- [15] Presenter, *Sky's the Limit: Get on board with Boeing's new diversity-focused STEM initiative!*, VentureWell Conference, Washington, DC (March 2019)
- [16] e-Presenter, *HSI Program*, HSI Grantsmanship Institute, Alliance of Hispanic Serving Institutions (AHSIE), Scottsdale, AZ (January 2019)
- [17] co-Presenter, *Proposal Writing That Yields Results and Funding Opportunities at the NSF*, Society of Hispanic Professional Engineers (SHPE) Conference, Cleveland OH (November 2018)
- [18] Panelist, *Federal Funding Opportunities for Hispanic-Serving Institutions (HSIs)*, Hispanic Association of Colleges and Universities (HACU) Conference, Atlanta, GA (October 2018)
- [19] Presenter, *Overview, Funding Opportunities, and Grant-Writing Tips*, Project NExT Workshop, Mathematical Association of America (MAA) MathFest, Denver, Co (August 2018)
- [20] Presenter, *Funding Opportunities for HSIs and NSF Listens: What's Next?*, Catalyzing Progress in Undergraduate STEM Education with Insights from Midwestern HSIs Conference, Northeastern Illinois University, Chicago, IL (May 2018)
- [21] Presenter, *Resources, Strategies, and Funding Opportunities for HSIs at the National Science Foundation*, Alliance of Hispanic Serving Institution Educators (AHSIE) 10<sup>th</sup> Annual Best Practices Conference, University of Illinois at Chicago, Chicago, IL (March 2018)
- [22] co-Presenter, *NSF Scholarships in STEM (S-STEM)*, Quality Education for Minorities (QEM) Network Proposal Workshop for NSF's S-STEM Program, Baltimore, MD (February 2018)
- [23] Presenter, *Improving Undergraduate STEM Education: Hispanic-Serving Institutions, HSI Program 18-524*, Consejos Colectivos: Improving STEM Success at HSIs, El Centro College, Dallas, TX (February 2018)
- [24] co-Presenter, *HSI Program*, HBCU-UP/CREST PI/PD Meeting, Washington, DC (February 2018)
- [25] co-Presenter, *NSF Grant Writing Workshop*, Pathways for Hispanics in STEM Conference, University of California, Irvine, Costa Mesa, CA (January 2018)
- o Presentation video available at  
<https://sites.google.com/uci.edu/ucihsiconference2018/nsf-workshop>
- [26] co-Presenter, *NSF Funding Opportunities to Improve Learning and Teaching in the Mathematical Sciences*, Joint Mathematics Meetings, San Diego, CA (January 2018)
- [27] co-Presenter, *Get to Know the National Science Foundation*, Joint Mathematics Meetings, San Diego, CA (January 2018)



- [28] co-Presenter, *NSF Grant-Writing Workshop*, The Southwest Conference on Transforming STEM Education in Hispanic-Serving Institutions, The University of Arizona, Tucson, AZ (November 2017)
- [29] Organizer, *Student Listening Session to Inform NSF's New HSI Program*, SACNAS Conference, Salt Lake City, UT (October 2017)
  - o Report can be found here:  
<https://www.nsf.gov/ehp/Materials/StudentListeningSessionsReport.pdf>
- [30] co-Presenter with Tyrone Mitchell of the Division of Graduate Education (DGE), *Funding Opportunities in STEM @ NSF*, National Technical Association Conference, Morgan State University, Baltimore, MD (September 2017)

### **Teacher Training Presentations.**

- [1] co-Presenter with Leticia Williams of Howard University, *Mentoring Underrepresented Minorities in STEM*, webinar for faculty, Workshop on Increasing Minority Participation in Undergraduate Mathematics, Park City Mathematics Institute (PCMI), Park City, Utah (June 2017)
- [2] Presenter, *Atmospheric Sciences: Data Analysis via R/RStudio*, hands-on workshop for graduate students and faculty, Environmental Data Analysis and Visualization Workshop, Universidad Metropolitana, San Juan, Puerto Rico (June 2017)
- [3] Presenter, *MATLAB Fundamentals*, hands-on workshop for Howard University faculty, Center for Excellence in Teaching, Learning, and Assessment (CETLA), Howard University, Washington, DC (May 23, 2017)
- [4] Presenter, *Growth Mindset Intervention*, webinar for university faculty, Math Attitudes and Anxiety Faculty Mentoring Network, Quantitative Undergraduate Biology Education and Synthesis (QUBES) (September 2016)
- [5] Presenter, *Implementing CS for All*, workshop for teachers of grades 2 through 5, Capstone/OSSE Math Science Summer Institute, Howard University, Washington, DC (August 2016)
- [6] Presenter, *Geometry*, workshop for teachers of grades 2 through 5, Capstone/OSSE Math Science Partnership, DC Scholars Stanton Elementary School, Washington, DC (April 2016)
- [7] Presenter, *Strategies for Enhancing STEM Instruction in Higher Education Setting*, webinar for university faculty, Capstone Institute, Howard University, Washington, DC (March 2016)
- [8] Presenter, *Measurement & Data*, workshop for teachers of grades 2 through 5, Capstone/OSSE Math Science Partnership, Howard University, Washington, DC (March 2016)
- [9] Presenter, *Geometry*, Workshop for Teachers of Grades 2 through 5, Capstone/OSSE Math Science Partnership, Aiton Elementary School, Washington, DC (March 2016)
- [10] Presenter, *Modeling with Mathematics*, workshop for teachers of grades 2 through 5, Capstone/OSSE Math Science Partnership, Savoy Elementary School, Washington, DC (February 2016)
- [11] Presenter, *Mathematical Explorations in Numeracy*, workshop for teachers of grades 2 through 5, Capstone/OSSE Math Science Partnership, Howard University, Washington, DC (August 2015)
- [12] Presenter, *Multiply: Whole Numbers and Decimals*, workshop for teachers of grades 2 through 5, Capstone/OSSE Math Science Partnership, Savoy Elementary School, Washington, DC (May 2015)
- [13] Speaker, *Extending Math Tools: In the Classroom, Home and Beyond*, workshop for pre-kindergarten teachers, Howard University (April 2015)
- [14] Speaker, *The Number Line & Fractions*, Workshop for Teachers of Grades 2 through 5, Capstone/OSSE Math Science Partnership, Howard University (February 2015)

- [15] Speaker, *Cultivating the Quantitative Mind Through Understanding, Preparation, and Planning*, workshop for pre-kindergarten Teachers, Van Ness Elementary School, Washington, DC (October 2014)
- [16] Speaker, *Developing a Curriculum-Wide STEM Theme*, workshop for high school teachers, Washington Math, Science, and Technology Public Charter School, Washington, DC (September 2014)
- [17] Speaker, *Developing a Cross-Disciplinary STEM Based High School Curriculum*, workshop for high school teachers, Washington Math, Science, and Technology Public Charter School, Washington, DC (August 2014)
- [18] Speaker, *Don't be Scared: Applying Mathematics to Real Life*, Workshop for Elementary School Teachers, Capstone Institute at Howard University (August 2014)
- [19] Speaker, *Building Connections: Research, Technology, and Current Trends in Mathematics*, workshop for university faculty, Capstone Institute's STEM Summer Professional Development Institute, Winston-Salem State University (June 2014)
- [20] Speaker, *Building Connections: Research, Technology, and Current Trends in STEM*, workshop for university faculty, Maximizing Engagement in STEM Professional Development Institute, Capstone Institute at Howard University, Washington, DC (June 2013)
- [21] Speaker, *Numeracy and Algebra: Math with Middle School Math Teachers*, Workshop for Middle School Teachers, OSSE Professional Development Training, Capstone Institute, Howard University (December 2012)

#### CONFERENCE AND WORKSHOP ACTIVITY/PARTICIPATION

##### **Conferences, Meetings, Sessions and Workshops Organized.**

- [1] Organizer and Moderator, *Faculty Institute on Generative AI*, Spelman College, Atlanta, GA (August 2023)
- [2] Co-organizer with Anna Haensch and Della Dumbaugh, *The Mathematics of Data Science*, Mathematical Association of America (MAA) MathFest, Tampa, FL (August 2023)
- [3] Organizer and Moderator, *Establishing New Data Science Research, Education, and Partnerships*, HBCU VP of Research Executive Forum, Black Engineer of the Year Awards (BEYA), Washington, DC (February 2022)
- [4] Co-organizer, with Ron Buckmire, Abba Gumel, and Jean Lubuma, *Advances in the Applications of Nonstandard Finite Difference Methods*, Joint Mathematics Meetings, Washington, DC (January 2021)
- [5] Co-organizer, with Caleb Ashley, Naiomi Cameron, and Bourama Toni, *Celebrating the Mathematical Legacy of Dr. James A. Donaldson*, Joint Mathematics Meetings, Washington, DC (January 2021)
- [6] Co-organizer, with Edray Goins, Janis Oldham and Scott Williams, *AMS Special Session on The Mathematics of Historically Black Colleges and Universities (HBCUs) in the Mid-Atlantic*, Joint Mathematics Meetings, Baltimore, MD (January 2019)
- [7] Organizer, *Strategies to Synergize Culture in the Learning and Doing of Mathematics*, Mathematical Association of America (MAA) MathFest, Denver, CO (August 2018)
- [8] Member, Organizing Committee, *Infinite Possibilities Conference (IPC)*, Howard University, Washington, DC (April 2018)
- [9] Organizer, *NAM Granville-Brown-Haynes Session of Presentations by Recent Doctoral Recipients in the Mathematical Sciences*, Joint Mathematics Meetings, San Diego, CA (January 2018)
- [10] Co-organizer, with Ronald Mickens, *The Life and Legacy of J Ernest Wilkins (1923-2011)*, Mathematical Association of America (MAA) MathFest, Chicago, IL (July 2017)

- [11] Member, Organizing Committee, *New Directions: Data Science for Homeland Security*, Annual Meeting of the Command, Control & Interoperability Center for Advanced Data Analysis (CCICADA), Howard University, Washington, DC (May 2017)
- [12] Co-organizer, with Ronald Mickens, *AMS Special Session on NSFD Discretizations: Recent Advances, Applications, and Unresolved Issues*, Joint Mathematics Meetings, Atlanta, GA (January 2017)
- [13] Co-organizer, with Monica Jackson and Colm Mulcahy, *AMS-NAM Joint Special Session on The Mathematics of the Atlanta University Center*, Joint Mathematics Meetings, Atlanta, GA (January 2017)
- [14] Organizer, *NAM Granville-Brown-Haynes Session of Presentations by Recent Doctoral Recipients in the Mathematical Sciences*, Joint Mathematics Meetings, Atlanta, GA (January 2017)
- [15] Co-organizer and Presenter, *Solving the Unsolvable Through Scientific Computing: Explorations in the Best Uses of Popular Mathematics Software*, Richard Tapia Celebration of Diversity in Computing Conference, Austin, TX (September 2016)
- [16] Chair, Local Organizing Committee, *StatFest*, American Statistical Association (ASA), Howard University, Washington, DC (Fall 2016)
- [17] Member, Organizing Committee, *Advancing Computational Biology @ Howard University Symposium*, Howard University (April 2016)
  - o Chair, Abstract Review Committee
- [18] Organizer, *NAM Granville-Brown-Haynes Session of Presentations by Recent Doctoral Recipients in the Mathematical Sciences*, Joint Mathematics Meetings, Seattle, WA (January 2016)
- [19] Member, Organizing Committee, *Howard University Math Modeling in Biology & Medicine Workshop Series*, Howard University, Washington, DC
  - o Workshop on the Mathematical Modeling of Diabetes (December 2017)
  - o Workshop on Mathematical Modeling of Neuropathies and Neuropsychiatric Illnesses (April 2017)
  - o Workshop on Modeling Infectious Diseases (December 2016)
  - o Workshop on Precision Medicine (April 2016)
  - o Workshop on the Treatment of Cancer (December 2015)
- [20] Member, Organizing Committee, *StatFest*, American Statistical Association (ASA), University of Chicago, Chicago, IL (September 2015)
- [21] Co-organizer, with Monica Jackson (American University), *“Notes of a Native Son”: The Legacy of Dr. Abdulalim A. Shabazz (1927-2014)*, Mathematical Association of America (MAA) MathFest, Washington, DC (August 2015)
- [22] Member, Organizing Committee, *Association for Women in Mathematics (AWM) Research Symposium*, University of Maryland, College Park, MD (April 2015)
  - [a] Co-organizer, with Erika Camacho (Arizona State University), *Mathematical Biology*
- [23] Co-organizer, with Paula Grajdeanu (Shenandoah University) and Abdul-Aziz Yakubu (Howard University), Special Session on *Dynamical Systems Models of Physiological Processes*, American Mathematical Society (AMS) Spring Eastern Sectional Meeting, Georgetown University, Washington, DC (March 2015)
- [24] Co-chair, Organizing Committee, *Science, Technology, Engineering and Mathematics Summer Professional Development Institute (STEM SPDI)*, Capstone Institute at Howard University, Winston-Salem State University, Winston-Salem, NC (June 2014)
- [25] Member, Organizing Committee, *Advancing Computational Biology @ Howard University Symposium*, Howard University (March 2014)

- [26] Member, Organizing Committee, *Howard University Research Day*, Howard University (April 2014)
- [27] Co-organizer, with Edray Goins (Purdue University), *AMS Special Session on The Ubiquity of Dynamical Systems*, Joint Mathematics Meeting, Baltimore, MD (January 2014)
- [28] Co-organizer, with Asamoah Nkwanta (Morgan State University), *AMS Special Session on Highlighting Achievements and Contributions of Mathematicians of the African Diaspora*, Joint Mathematics Meetings, Baltimore, MD (January 2014)
- [29] Member, Local Organizing Committee, *National Society of Black Physicists (NSBP) / National Radio Astronomy Observatory (NRAO) Workshop*, Howard University (September 2013)
- [30] Co-organizer, with Ron Buckmire (Occidental College) and Abba Gumel (University of Manitoba), *AMS Special Session on Nonstandard Finite-Difference Discretizations and Nonlinear Oscillations (in Honor of Ronald Mickens' 70th Birthday)*, Joint Mathematics Meetings, San Diego, CA (January 2013)
- [31] Member, Local Organizing Committee, *David Blackwell Memorial Conference*, Howard University (April 2012)

### **Workshops Attended.**

- [1] *Human Skills: From Conversations to Convergence*, Massachusetts Institute of Technology, Cambridge, MA (March 2020)
- [2] *Customer Service Training*, Howard University, Washington, DC (December 2018)
- [3] *Latino Higher Education Leadership Institute*, Hispanic Association of Colleges and Universities (HACU), Atlanta, GA (October 2018 and October 2019)
- [4] *Applications of Spatial Data: Ecological Niche Modeling*, National Institute for Mathematical and Biological Synthesis (NIMBioS), University of Tennessee, Knoxville, TN (May 2018)
- [5] *Predictive Policing*, Institute for Computational and Experimental Research in Mathematics (ICERM), Providence, RI (August 2016)
- [6] *The Mathematics of Data*, Park City Math Institute, Park City, UT (June-July 2016)
- [7] *Mathematical Problems in Industry*, Duke University, Durham, NC (June 2016)
- [8] *Institutional Assessment*, Center for Excellence in Teaching, Learning, and Assessment, Howard University, Washington, DC (May 2016)
- [9] *Multivariate Research Methods and Statistics*, Howard University, Washington DC (May 2016)
- [10] *Quantitative Biology Workshop*, Spelman College, Atlanta, GA (March 2016)
- [11] *Common Vision Workshop*, American Statistical Association, Alexandria, VA (May 2015)
- [12] *Lymphoid Cells in Acute Inflammation Workshop*, National Institute for Mathematical and Biological Synthesis (NIMBioS), University of Tennessee, Knoxville, TN (January 2015)
- [13] *COPASI User Workshop: Modelling and Simulation in Systems Biology*, Virginia Tech Research Center, Arlington, VA (July 2014)
- [14] *Teaching Discrete and Algebraic Mathematical Biology to Undergraduates*, Mathematical Biosciences Institute (MBI), The Ohio State University, Columbus, OH (July 2013)
- [15] *Applied Statistics and Machine Learning New Directions Short Course*, Institute for Mathematics and Its Applications (IMA), Minnesota, MN (June 2013)
- [16] *Reconnect Workshop on Water Infrastructure, Contamination and Risk Assessment*, Morgan State University, Baltimore, MD (June 2013)
- [17] *Modeling Dengue Fever*, National Institute for Mathematical and Biological Synthesis (NIMBioS), University of Tennessee, Knoxville, TN (July 2012)
- [18] *MBI BioSciences Problem-Solving Workshop*, Mathematical Biosciences Institute (MBI), The Ohio State University, Columbus, OH (July 2012)

- [19] *PCMI Workshop for Mentors of Undergraduate Mathematics Research by Minority Students*, Park City Mathematics Institute – Institute for Advanced Study, Park City, UT (July 2012)
- [20] *Writing Across the Curriculum (WAC)*, Center for Excellence in Teaching, Learning, and Assessment, Howard University, Washington, DC (May 2012)
  - Earned WAC certification
- [21] *Inquiry Based Learning (IBL) Workshop*, University of Michigan, Ann Arbor, MI (May 2011)
- [22] GCAT Synthetic Biology Workshop 2010, Genome Consortium for Active Teaching (GCAT), Davidson College, Davidson, NC (July 2010)
- [23] *Visual Analytics and its Applications*, Reconnect Conference 2009, Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), Piscataway, NJ (August 2009)
- [24] *Research Experiences for Undergraduate Faculty*, American Institute of Mathematics (AIM), Palo Alto, CA (July 2009)
- [25] *Classroom Assessment Techniques*, Eykamp Center for Teaching Excellence, University of Evansville, Evansville, IN (January 2009)
- [26] *National Science Foundation Day*, Butler University, Indianapolis, IN (October 2007)
- [27] *Nonlinear Dynamics of Calcium in Living Organisms*, Santa Fe, NM (March 2000)
- [28] *Short Course on Mathematics and Molecular Biology*, Program in Mathematics and Molecular Biology (PMMB), University of California, Berkeley, CA (June 1998)

#### **Conferences Invited to Attend.**

- [1] Technical Working Group Meeting: Increasing Diversity and Representation of IES-funded Education Researchers, Institute of Education Studies, Virtual (December 2020)
- [2] *MathWorks Research Summit*, Newton, MA (June 2019)
- [3] *STEM Women of Color Conclave*, Washington, DC (June 2010, June 2011, June 2012, September 2016, and June 2019)
- [4] *Frontiers in Climate and Earth System Modeling: Advancing the Science*, Geophysical Fluid Dynamics Laboratory (GFDL) Science Symposium, Princeton, NJ (May 2013)

#### TEACHING EXPERIENCE

##### **Professor, Clark Atlanta University, August 2020 – Present.**

Department of Mathematical Sciences, 223 James P Brawley Dr SW, Atlanta, GA 30314

- *Undergraduate courses taught*: Explorations in Data Science (Fall 2021)

##### **Associate Professor, Howard University, August 2011 – August 2020.**

Department of Mathematics, 2400 Sixth St NW, Washington, DC 20059

*Tenured Associate Professor*, Department of Mathematics (August 2012 – August 2020)

*Visiting Associate Professor*, Department of Mathematics (August 2011 – July 2012)

- *Undergraduate courses taught*: College Algebra I, Fundamental Concepts of Mathematics for Education I, Fundamental Concepts of Mathematics for Education II, Precalculus, (Honors) Precalculus, Proof and Problem Solving I, Calculus I, Calculus II, Calculus III, Differential Equations, Numerical Analysis, and Mathematical Biology
- *Graduate courses taught*: Numerical Analysis I (of Ordinary Differential Equations), Numerical Analysis II (of Partial Differential Equations), Mathematical Biology, Real Analysis I, Real Analysis II, and Scientific Computing (with MATLAB)
- *Reading courses taught*:
  - Undergraduate/Graduate: Data Science with R, Co-taught with Dr. Todd Drumm of the Department of Mathematics (Fall 2016)

- Undergraduate/Graduate: Data Science with R/RStudio (Spring 2016)
- Undergraduate: Analyzing Data Via HydroDesktop and R/RStudio (Fall 2013)
- Undergraduate: An Introduction to Sage Math (Spring 2013)
- *Courses created:*
  - Graduate: Scientific Computing (with MATLAB) (Spring 2015)
  - Undergraduate: Writing Across Writing Across the Disciplines (for the Brazil Scientific Mobility Program, BSMP) (August 2013 and Fall 2013)
  - Undergraduate/Graduate: Mathematical Biology (Spring 2012)
- Group advisor for the undergraduate Institutional Research Engagement Program at Howard University (IREPHU) on the spread of infectious disease models using R/RStudio to run simulations (October 2016 – May 2017)
- Group project advisor for Freshman Seminar (Fall 2011 and 2012)
- Enhanced learning with writing projects, mathematical applications, and computational software
  - Utilized FreeMat, GeoGebra, L<sup>A</sup>T<sub>E</sub>X, MATLAB, Notepad++, Octave, R, RStudio, Sage, and TI-84
  - Employed ALEKS, Google Drive, MyMathLab, and WebAssign for assignments and online homework

**Lecturer, The EDGE Program, June 2011.**

Florida Agricultural and Mechanical University, Tallahassee, FL

- Developed and taught a two-week course on an introduction to graduate-level Analysis

**Assistant Professor, University of Evansville, August 2005 – May 2011.**

Department of Mathematics, 1800 Lincoln Ave, Evansville, IN 47722

*Assistant Professor*, Department of Mathematics

Awarded *tenure* and promotion to *Associate Professor* (Spring 2011)

- *Courses taught:* Mathematical Ideas, College Algebra, Survey of Calculus, Mathematics for Elementary Teachers, Calculus I with Precalculus Review, Calculus II, Calculus III, Differential Equations, Foundations of Geometry, Numerical Methods, and Senior Seminar: Mathematical Modeling
- Developed and taught topics courses:
  - Mathematical Modeling in Synthetic Biology (Fall 2010)
    - Co-taught with Dr. Joyce Stamm, Department of Biology, University of Evansville
  - Mathematical Modeling in Biology: SIR Models (Spring 2009)
  - Modeling the Tacoma Narrows Bridge (Fall 2006)
- Developed and taught discussion course entitled *African American Experience: Law and Society* (Spring 2008)
- Led a module on Geometry and a module on sequences and series in a Problem Solving Seminar to help high school and college students prepare for the American High School Math Exam (October 2009, January 2010, November 2010)
- Enhanced learning with writing projects, mathematical applications and technology including TI-84, Derive, Excel and MATLAB
- Teacher Preparation
  - Worked with interns as they completed the mathematics department's internship requirements, reviewed videotapes with students, conducted on-site observations of their teaching, and provided student with a written evaluation
    - Supervised Internship/Student Teachers at Bosse High School (Spring 2008, Fall 2009, Fall 2010)

- Supervised Student at Glenwood Middle School, Transition to Teaching Program (Fall 2006)

**Adjunct Faculty, Ivy Tech Community College, May 2007 – July 2007.**

Math Program, 3501 N First Ave, Evansville, IN 47710

- *Course taught:* Intermediate Algebra

**Assistant Professor, The College of New Rochelle, September 2003 – August 2005.**

Department of Mathematics, 29 Castle Pl, New Rochelle, NY 10805

- *Courses taught:* Intermediate Algebra, Quantitative Reasoning, College Mathematics, Elementary Statistics, Precalculus/Elementary Functions, Calculus I, Calculus II, Differential Equations, Geometry, Discrete Mathematics, and Numerical Analysis
- Enhanced learning with TI-83 and MATLAB
- Restructured the math major, minor and basic education curricula; coordinated the math instructors and courses; modified math placement standards and created placement exam; participated in developing and supervising the mathematics tutoring program; and assisted in creating a new math computer lab

**VIGRE Research Associate, Duke University, September 2001 – August 2003.**

Department of Mathematics, 120 Science Drive, Durham, NC 27708

- *Courses taught:* Laboratory Calculus I and Differential Equations.
- *Program Co-Coordinator*, Summer Program in Mathematical Biology (Summer 2002)
  - Taught introductory programming in MATLAB and L<sup>A</sup>T<sub>E</sub>X, advised program participants, and invited and coordinated speakers to give presentations of mathematical applications to biology
- *Advisors:* Dr. Michael Reed, Department of Mathematics, and Dr. Joseph Blum, Duke University Medical Center

**Graduate Student, University of Connecticut, September 1996 – August 2001.**

Department of Mathematics, 341 Mansfield Road U1009, Storrs, Connecticut 06269

- *Teaching Assistant* (September 1996 – August 2001)
  - *Courses taught:* Algebra and Trigonometry, Elementary Discrete Math, Math for Business & Economics, Calculus for Business & Economics, Introductory Calculus I, and Calculus I
- *Instructor*, Project 3000 by 2000 (Summer 2000)
  - Designed and taught an extensive pre-collegiate math course with biological applications with Maple for minority students in the health professions
- *Research Mentor*, UConn Mentor Connection (July 2000)
  - Independently prepared a research project for high school student that included the utilization of MATLAB to numerically solve systems of differential equations as well as giving a PowerPoint presentation of completed work
- *Instructor*, Center for Academic Programs (Summer 1997 and 1998)
  - Taught College Math and Problem Solving as part of a TRIO program (TRIO is a federally and state funded initiative which is designed to help students overcome class, social, and cultural barriers to higher education.)

## SERVICE TO THE PROFESSION

### Advisory Boards.

- *Academic Advisory Board*, School of Data Science, University of Virginia, Charlottesville, VA (February 2023 – Present)
- *Advisory Board*, Applied Statistics and Data Science (ASDS) Program, United States Military Academy West Point, West Point, NY (February 2023 – Present)
- *External Advisory Board*, Institute for African Americans in Computing Sciences (IAAMCS), NSF Broadening Participation in Computing Alliance Extension (BPC-AE), Morehouse College and University of Florida (January 2023)
- *Academic Advisory Council*, Cyber AB of the Cybersecurity Maturity Model Certification Accreditation Body, National Harbor, MD (June 2022 – Present)
- *External Advisory Committee*, Goergen Institute for Data Science, University of Rochester, Rochester, New York (August 2021 – Present)
- *Advisory Board*, Center for the Development of Identity and Motivation of African American Students in STEM (IaMBPRC), NSF Broadening Participation Research Center, Howard University, Morehouse College, and Winston-Salem State University, (April 2021 – Present)
- *Board of Directors*, Evansville African American Museum (EAAM), (April 2021 – present)
- *Advisory Board*, Academic Data Science Alliance (ADSA), (January 2021 – present)
- *Inaugural External Advisory Board*, Quantitative Theory and Methods (QTM) Emory University (October 2020 – present)
- *Member at Large*, Council, American Mathematical Society (AMS), (February 2017 – January 2020)
  - Member, AMS Committee on Science Policy (February 2017 – January 2018)
  - Member, AMS Committee on Meetings and Conferences (February 2018 – January 2020)
  - Member, AMS Committee on Committees (February 2019 – January 2021)
- *Representative-at-Large for Minority Interests*, Congress, Mathematical Association of America (MAA), (February 2016 – October 2017)
- *Advisory Board*, Institutional Practices Guide, Mathematical Association of America (MAA), (January 2016 – January 2017)
- *Mathematical Sciences Academic Advisory Committee*, College Board (January 2016 – September 2017)
- *Advisory Board*, National Institute for Mathematical and Biological Synthesis (NIMBioS), (July 2014 – July 2017)
- *Steering Committee*, Capital Area Project Kaleidoscope (PKAL) Regional Network (March 2014 – November 2014)
- *At-large Member of the Executive Committee*, Association for Women in Mathematics (AWM), (February 2014 – January 2018)
  - Chair, Programs Committee (February 2016 – October 2017)
- *Faculty Consultant*, The Digital Humanities Laboratory, University of Evansville (Spring 2011)
- *Board of Directors*, National Association of Mathematicians (NAM)
  - Editor (January 2010 – July 2012, January 2015 – November 2017)
  - Vice-President (January 2015 – July 2017)
- *Board of Directors*, YMCA of Southwestern Indiana, Evansville, IN (2008 – 2011)
- *Board of Directors*, Memorial Community Development Corporation, Evansville, IN (2007 – 2011)
- *Steering Committee*, Southwest Indiana College Access, Evansville, IN (2007 – 2011)
- *Minority Advisory Committee to the School Board*, Evansville-Vanderburgh School Corporation, Evansville, IN (February 2008 – September 2008)



## Editorship.

- *Editorial Board Member*, Math Horizons (August 2013 – May 2019)
- *Editor*, National Association of Mathematicians (NAM) Newsletter (January 2010 – July 2012, January 2015 – November 2017)
  - Manage webpage, <http://nam-newsletter.org/>
  - Solicit articles, manage advertisements, and oversee production of the NAM Newsletter
  - Managed a staff of three individuals
    - Dr. Mohammad K. Azarian, Department of Mathematics, University of Evansville (January 2010 – July 2012, January 2015 – November 2017)
    - Dr. Edray H. Goins, Department of Mathematics, Purdue University (January 2010 – July 2012)
    - Neeley Koester, Student, University of Evansville (January 2010 – May 2010)

## Service to the Discipline.

- Reviewer, National Institutes of Health (2021)
- Design Team, *Data Science Course Framework*, Launch Years initiative, Charles A. Dana Center, The University of Texas at Austin (May 2021)
- Referee, Harvard Data Science Review (2021)
- Society for Industrial and Applied Mathematics (SIAM)
  - *Nominating Committee* (January 2021 – December 2022)
  - *Diversity Advisory Committee* (2011 – 2013)
- Participant, AWM Hill Visits, Met with various legislators (April 2015, May 2016, December 2016, April 2017)
- Advisory Board Member, NSF INCLUDES: WATCH US (Women Achieving Through Community Hubs) in the United States (October 2016 – July 2017)
- Referee, Mathematical Biosciences (2016)
- Member, College Board-MAA Joint Committee on Mutual Concerns, Council on Outreach Programs, Mathematical Association of America (January 2015 – January 2018)
- Proposal Reviewer, 2015 National Council of Teachers of Mathematics Research Conference (September 2014)
- Member, SAT Mathematics Subject Test Development Committee, College Board/Educational Testing Service (ETS), Princeton, NJ (July 2014 – March 2018)
- Science Panel Reviewer, Ford Foundation Fellowship Program (2014, 2015, 2016)
- Reviewer, EDGE (Enhancing Diversity in Graduate Education) (2014)
- Referee, Journal of Difference Equations and Applications (2013)
- Referee, Mathematics and Computers in Simulation (2012)
- Referee, Computers and Mathematics with Applications (December 2012)
- Co-organizer, Applied Mathematics Seminar, Department of Mathematics, Howard University (Fall 2011 – Spring 2013)
- Member, Differential Equations Study Group for the *CUPM 2015 Curriculum Guide*, Committee on the Undergraduate Program in Mathematics (CUPM), Mathematical Association of American (MAA) (January 2012 – January 2014)
- Editorial Board Member, *JP Journal of Fixed Point Theory and Applications* (June 2011 – 2014)
- Review Panelist, National Science Foundation (2010 – 2017; 2020 – present)
  - Division of Engineering Education and Centers (EEC)
  - Division of Equity for Excellence in STEM (EES), formerly the Division of Human Resource Development (HRD)

- Division of Graduate Education (DGE)
- Division of Mathematical Sciences (DMS)
- Division of Undergraduate Education (DUE)
- Office of Integrative Activities (OIA)
- Manuscript Reviewer, Taylor and Francis Group (2011)
- Judge, Undergraduate Student Poster Session, Mathematical Association of America (January 2010)
- Member, Visioning Committee, Infinite Possibilities Conference 2010 (March 2009)
- Reviewer for Scholarships, Richard Tapia Celebration of Diversity in Computing 2009 Conference (Fall 2008 – Spring 2009)
- Visiting Lecturer, Mathematical Biosciences Institute (Fall 2009)
  - [http://www.mbi.osu.edu/about/vlp\\_lecturers/washington.html](http://www.mbi.osu.edu/about/vlp_lecturers/washington.html)
- Undergraduate Mentor, National Alliance for Doctoral Studies in Mathematics (Fall 2009 – present)
  - <http://www.mathalliance.org/Profiles.asp?sort=FAC-WashiTalith>
- Coordinator, Cox Dedication Ceremony, Liberty Baptist Church, Evansville, IN (November 2006)

#### SERVICE TO THE DEPARTMENT AND THE UNIVERSITY

- Member, Hiring Committee, Department of Mathematical Sciences, Clark Atlanta University (Spring 2021)
- Member, Curriculum Committee, Department of Mathematical Sciences, Clark Atlanta University (Spring 2021)
- Member, *Governance, Constitution and Bylaws Committee*, Faculty Senate, Howard University (Fall 2019 – Summer 2020)
- Presented, *Professional Branding, Promotion, and Information Dissemination*, Faculty Roles and Responsibilities graduate course, Howard University (October 2019)
- Presented, along with Marcus Alfred from the Department of Physics and John Harkless from the Department of Chemistry, *How to Be a Successful Chemistry, Mathematics and Physics Major*, Bison New Student Orientation (August 2017)
- Member, Admissions Committee, College of Arts and Sciences Representative, Howard University (Fall 2015 – Spring 2017)
- Presented, along with Marcus Alfred from the Department of Physics and John Harkless from the Department of Chemistry, *How to Win in Chemistry, Mathematics and Physics*, Bison Week New Student Orientation (August 2016)
- Member, HU STEM Team, Howard University (Spring 2015)
  - Lead the development of a set of recommendations for the President with the goal of enhancing the STEM student learning experience
- Member, Teacher Education Advisory Council (TEAC), School of Education, Howard University (Fall 2014 – Spring 2017)
- Member, Internal Advisory Committee, Howard University Research Centers in Minority Institutions (HU RCMI), Howard University (Fall 2014 – Spring 2017)
- Session Moderator, Howard University Research Day, Howard University (April 2014)
- Member, Hiring Committee for the Dean of the College of Arts and Sciences, Howard University (Spring 2014 – Spring 2015)
- Member, Teaching, Learning & Technology (TLT) Committee, Center for Excellence in Teaching, Learning, and Assessment (CETLA), Howard University (Spring 2014 – Spring 2017)

- Member, Non-Medical Institutional Review Board (IRB), Howard University (January 2014 – January 2015)
- Advisor, SIAM (Society for Industrial and Applied Mathematics) Student Chapter at Howard University (Fall 2013 – Spring 2014)
- Member, Budget Advisory Committee (BAC), Howard University (Fall 2013 – Spring 2014)
- Member, HU-Teach Subcommittee, Center for Excellence in Teaching, Learning, and Assessment (CETLA), Howard University (Fall 2013 – Spring 2017)
- Member, HU ADVANCE-IT Experience Study Committee, Howard University (Fall 2013 – Spring 2015)
- At-large Council Member, Faculty Senate, Howard University (Fall 2013 – Spring 2016)
  - Academic and Health Affairs Committee (Fall 2013 – Spring 2015)
  - Budget and Planning Committee (Fall 2013 – Spring 2015)
- Member, Committee to Develop and Administer the Senior Comprehensive Exam in Mathematics, Department of Mathematics, Howard University (Fall 2013 – Spring 2017)
- Member, Interdisciplinary Studies Committee, College of Arts and Sciences, Howard University (Fall 2012 – Spring 2015)
- Member, Hiring Committee, Department of Mathematics, Howard University (Fall 2012 – Spring 2013)
- Member, Curriculum Committee, Department of Mathematics, Howard University (Fall 2012 – February 2014)
- Member, Advisory Committee for *The Howard University Critical Mass Project: Increasing the Numbers of African Americans Receiving Doctoral Degrees in Nuclear Physics*, Howard University (Fall 2012 – July 2017)
- Affiliated Faculty, Cybersecurity Research Center, Howard University (February 2012 – present)
- Institute Partner Representative for Department of Mathematics, Howard University, MBI Partner Meeting, Mathematical Biosciences Institute (MBI) (February 2012 and February 2014)
- Co-organizer, Holiday Celebration, Department of Mathematics, Howard University (December 2011)
- Member, Graduate Faculty Committee, Department of Mathematics, Howard University (Fall 2011 – present)
  - Member, Faculty Performance Review Committee (Spring 2013 and Spring 2014)
- Member, Connections Working Group, University Strategic Plan, University of Evansville (Fall 2010 – Spring 2011)
- Member, General Education Subcommittee, University of Evansville (Fall 2010 – Spring 2011)
- Member, Human Relations Committee, University of Evansville (Fall 2009 – Spring 2011)
- Coordinator of a university-wide colloquium *African American Presence in Science* by Dr. Ronald Mickens of Clark Atlanta University; sponsored by the Institute for Global Enterprise Multicultural Colleagues Invitational Lecture Series, University of Evansville (March 2009)
- High School Mathematics Recognition Banquet Committee, University of Evansville
  - Chair (Spring 2007, 2008, and 2009)
  - Member (Spring 2007 – Spring 2011)
- Webmaster, Kappa Mu Epsilon, University of Evansville (Fall 2008 – Spring 2011)
- Member, Honor Council, University of Evansville (Fall 2008 – Spring 2011)
- Member, Hiring Committee, Department of Mechanical and Civil Engineering, University of Evansville (Fall 2008 – Spring 2009)
- Member, Elementary Education Committee, Department of Mathematics, University of Evansville (Fall 2007 – Spring 2011)

- Member, Freshman Retention Committee, Department of Mathematics, University of Evansville (Fall 2007 – Spring 2008)
- Member, Hiring Committee, Department of Psychology, University of Evansville (Fall 2007 – Spring 2008)
- Coordinator of a university-wide colloquium *Beyond Stereotypes: Culture, Politics and the Hip-Hop Generation* by Dr. Jeffrey Ogbar of the University of Connecticut; sponsored by the Institute for Global Enterprise Multicultural Colleagues Invitational Lecture Series, University of Evansville (February 2007)
- Advisor, Black Student Union, University of Evansville (Fall 2006 – Summer 2009)
- Timer, Bike Race, University of Evansville (Spring 2006, 2007, 2008, 2009)
- Member, Institutional Diversity Committee, University of Evansville (Fall 2006)
- Member, Retention Committee, University of Evansville (Fall 2006 – Fall 2007)
- Admission to Teacher Education Interviews, University of Evansville (March 2006 – Spring 2011)
- Member, Hiring Committee, Department of Mechanical and Civil Engineering, University of Evansville (Fall 2006 – Spring 2007)
- Member, Project Kaleidoscope (PKAL) Committee, University of Evansville (Fall 2005 – Spring 2006)
- Member, Faculty Development Committee, The College of New Rochelle (2004 – 2005)
- Advisor, Students in Science and Math, The College of New Rochelle (2003 – 2004)
- Organizer, Math/Bio Lunch Talks, Duke University (Fall 2002)
- Senator, Graduate Student Senate, University of Connecticut (1997 – 1998)
- President, Black Graduate Student Association, University of Connecticut (1997 – 1998)

#### SERVICE TO THE LOCAL COMMUNITY

- Moderator, National Math Festival, Washington, DC (May 2019)
- Volunteer, National Society of Black Engineers (NSBE) Fall Regional Conference, North Bethesda, MD (November 2018)
- Mentor, *Think It Up Live*, Cardozo Education Campus, Washington, DC (November 2016)
- Presenter, *Work Hard, Play Hard*, Career Day at The Washington Mathematics Science Technology Public Charter High School, Washington, DC (December 2014)
- Organizer, The visit of the 5<sup>th</sup> grade class from Harmony Hills Elementary School to Howard University, Silver Spring, MD (April 2013, April 2014, May 2015, and April 2016)
  - In 2013, along with Dr. Vernon R. Morris from the Department of Chemistry, Howard University, we gave a presentation entitled *Mathematics Awareness Month at Howard University: Mathematics of Sustainability*
  - In 2014, I gave a presentation on *STEM Mysteries*
  - In 2015, along with Drs. Marcus Alfred from the Department of Physics and John Harkless from the Department of Chemistry, Howard University, we gave a presentation entitled *I am a Mathematician. I am a Chemist. I am a Physicist. What Do We Do?*
  - In 2016, along with Dr. John Harkless from the Department of Chemistry, we gave a presentation entitled *The Future of Prediction*
- Invited Speaker, *Overcoming the Odds* (February 2011)
  - Benjamin Bosse High School, Evansville, IN
  - Academy for Innovative Studies, Evansville, IN
- Coordinator, *Family Jazz Celebration* featuring the Spelman College Jazz Ensemble in collaboration with the Memorial Community Development Corporation, Evansville, IN (March 2008)

- This event raised funds that benefited the Memorial Child Care Center, Carver Community Day Care Center and Joshua Academy Charter School.
- Presenter for Black History Month Celebration, Memorial Baptist Church, Evansville, IN
  - *He Saw The Best In Me* (February 2011)
  - *Never Would Have Made It* (February 2010)
  - *“O” is for Opportunity* (February 2009)
  - *What Will Your Legacy Be?* (February 2008)
- Chair and Founder, *Stepping Up*, Youth College Preparation Program, Evansville, IN (August 2007 and 2008)
  - *Stepping Up* promotes positive youth development by preparing students in grades 5-12 for postsecondary education, career exploration and personal development. Through workshops and sessions tailored to students’ education levels, minority youth in the Evansville area gain a sense of excitement and confidence to pursue advanced degrees.
- Assisted with organizing the Infinite Scholar Annual College/Scholarship Fair, Evansville, IN (October 2007, 2008, 2009, and 2010)
  - Fair targets African and Latin Americans, and provides the financial means and guidance to further educational pursuits
- Helped initiate and judge at Joshua Academy Science Fair, Evansville, IN (May 2006)
- Member, NAACP Fundraising Banquet Committee, Evansville, IN (Fall 2006 and 2007)
  - Emcee for NAACP Fundraising Banquet, Evansville, IN (October 2006)
- Read books to entire second grade class, Harper Elementary School, Evansville, IN (October 2006)
- Vice-President, Parent Teacher Association, Harper Elementary School, Evansville, IN (Fall 2006 – Spring 2008)
- Public Law 221 Committee at Harper Elementary School (Fall 2005 – present)
- Started and helped supervise after school Hip Hop Club at Harper Elementary School; class was taught by a student from the University of Evansville (Fall 2005 – Spring 2006)
- Started after school Theatre Club at Harper Elementary School that is run by students from the University of Evansville (Fall 2005)

#### PROFESSIONAL ASSOCIATIONS

- American Association for the Advancement of Science (AAAS)
- American Mathematical Society (AMS)
  - Life Member
- American Statistical Association (ASA)
- Association for Women in Mathematics (AWM)
- Blacks in Government (BIG)
  - Life Member
- Friends’ Council of the Atlanta University Center (AUC) Robert W. Woodruff Library
  - Lifetime Member
- Institute for Operations Research and the Management Sciences (INFORMS)
  - Member
- Mathematical Association of America (MAA)
  - Life Member
- National Alumnae Association of Spelman College (NAASC)
  - Lifetime Member
- National Association of Mathematicians (NAM)
  - Golden Lifetime Member

- National Council of Teachers of Mathematics (NCTM)
- National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCCChE)
- National Society of Black Physicists (NSBP)
  - Life Member
- Society for the Advancement of Chicanos and Native Americans in the Sciences (SACNAS)
  - Lifetime Member
- Society for Industrial and Applied Mathematics (SIAM)
- Society for Mathematical Biology (SMB)

#### PODCASTS

- *Interview with Dr. Talitha Washington, Director of the Atlanta University Center (AUC) Data Science Initiative and Professor of Mathematics at Clark Atlanta University*, Collaborative Strategies for Inclusive Change, NSF INCLUDES Coordination Hub (January 6, 2023)
- *Data Science: Academia's Newest and Fastest-Growing Field (with Dr. Talitha Washington, Professor of Mathematics and the Director of the Atlanta University Center Data Science Initiative)*, Innovators, Harris Search Associates (October 4, 2022)
- *Narrowing the Cybersecurity Workforce Gap with Dr. Talitha Washington*, The Trust Corner, SAP (August 29, 2022)

#### MEDIA MENTIONS

- *Kicking Off New Beginnings: 2023 Commencement*, UConn Today, University of Connecticut (May 9, 2023)
- *Tackling the Diversity Gap in Computer & Data Sciences*, Spelman Messenger, (Winter 2023)
- *Ford Opens Atlanta Research and Innovation Center to Tap Local Tech Talent for Company's Digital Transformation*, Black Enterprise (October 17, 2022)
- *Clark Atlanta University to Lead the New National Data Science Alliance*, The Journal of Blacks in Higher Education (August 12, 2022)
- *Revenge of the Data Scientists*, UConn Magazine (Summer 2022)
- *Women of color research network focuses on mentorship, collaboration*, Environmental Factor, National Institute of Environmental Health Sciences (July 2021)
- *Honoring Dr. Talitha Washington*, SIAM News (March 1, 2021)
- *Tri-State celebrating MLK Day Events differently due to pandemic*, 14 WFIE News (January 18, 2021)
- *AUC professor receives recognition from two organizations*, The Atlanta Voice (November 16, 2020)
- *Mathematician speaks about minorities in STEM*, The Exponent, Purdue University (February 19, 2020)
- *NSF official to speak on 'How to be an Unhidden Figure in Science'*, Press Release, Purdue University (February 11, 2020)
- *Howard University's Talitha Washington Selected to Serve in the National Science Foundation Convergence Accelerator*, Howard University Newsroom (February 10, 2020)
- *National Science Foundation Awards \$2.5 Million Grant to Santa Monica College*, Santa Monica Daily Press (October 12, 2019)
- *'Hidden Figures' lecture focuses on Katherine Johnson's life*, The Campus, Allegheny College (February 28, 2019)
- *For a Black Mathematician, What It's Like to Be the 'Only One'*, The New York Times (February 18, 2019)

- *Howard University Professor Receives Innovation Award*, US Black Engineer Information and Technology Magazine (January 31, 2019)
- *Howard University Mathematician Talitha Washington Named 2019 Black Engineer Of The Year STEM Innovator* Howard University Newsroom (January 31, 2019)
- *Howard University Mathematician Talitha Washington Named 2019 Black Engineer of the Year STEM Innovator*, Radio Facts (January 31, 2019)
- *Diversity in focus at NOBCChE*, Chemical & Engineering News, (November 4, 2018)
- *Clemson to host first Hispanic/Latinx Voices in Academia Conference*, Media Release (September 28, 2018)
- *Bias kept black scientists out of Oak Ridge's atomic bomb work*, Knoxville News Sentinel (February 25, 2018)
- Featured Honoree, *Mathematically Gifted & Black*, The Network of Minorities in the Mathematical Sciences (February 3, 2018)
- *Hidden No More: Dr. Talitha Washington*, US Black Engineer and Information Technology Magazine (January 9, 2018)
- *Rudy L. Horne dies at 49; Chicago native checked the math in 'Hidden Figures'*, Chicago Sun Times (January 1, 2018)
- *In Conversation with Talitha Washington*, Black History Month, Chalkdust Magazine (October 26, 2017)
- *Mathematics Professor Dr. Talitha Washington Receives Prestigious NSF DUE Appointment*, Howard University Newsroom (August 18, 2017)
- Recognized as one of the “*Six People You Need to Know*” in Evansville City View magazine (2009)

#### ADDITIONAL INFORMATION

- Born in January of 1974 in Frankfort, Indiana, United States of America
- Familiar with Derive, Excel, GeoGebra, HyperText Markup Language (HTML), L<sup>A</sup>T<sub>E</sub>X, Maple, MATLAB, Octave, R, RStudio, Sage, and TI-84
- Enjoys running, group exercise, camping, dancing, and public speaking
- Fluent in Spanish