



**THE TIME IS  
ALWAYS NOW**

**HOWARD UNIVERSITY  
SESQUICENTENNIAL**  
— 1867 - 2017 —

HOWARD UNIVERSITY

**RESEARCH WEEK**

April 10-14, 2017

**PROGRAM BOOK**





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# RESEARCH WEEK

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PROGRAM BOOK

# HOWARD UNIVERSITY

Office of the Associate Provost  
Research & Graduate Studies

April 13, 2017

Greetings to the Howard University Family and Friends:

With great pleasure, I welcome you to Howard University's Research Week 2017, April 10-14. This week provides a wonderful opportunity to showcase the multiplicity of cross-disciplinary and groundbreaking research that has earned the University its unique reputation among institutions of higher education for many years.

As part of its mission and core values, Howard University continues to engage all of its students, faculty, and staff in an ecology- research environment that will lead to the next generation of innovators, allows for sustainable collaborations, moves toward measurable outcomes, and creates new work spaces and industries.

Over 550 faculty, students, and postdocs from the thirteen schools and colleges comprise this year's Research Symposium participants. I congratulate each of the presenters for their excellent presentations, as well as for their willingness to share their accomplishments. I hope that the Research Symposium will strengthen current partnerships, and spark new and further collaborations among your colleagues in the coming years.

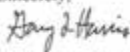
I would like to take this opportunity to express my gratitude to the Research Week's keynote speaker, Dr. Valerie Wilson, Director of the Economic Policy Institute's Program on Race, Ethnicity, and the Economy. Her presentation, "Black-white wage gaps expand with rising inequality," was very enlightening.

We are also grateful for the generous support and partnership of our sponsors, the National Science Foundation's HU ADVANCE-IT, Georgetown-Howard Universities Center for Clinical and Translation Science (GHUCCTS), and Liberal Arts Diversity Officers (LADO).

Additionally, I am deeply appreciative of the work of the judges, moderators, and many volunteers who represent a wide range of disciplines and expertise both external to and within the University community. I also thank the Research Symposium Committee for their commitment and dedication to ensuring the success of this event.

Again, I extend warm greetings and gratitude for your contributions to a successful Research Week.

Sincerely,



Gary Harris, Ph.D., P.E.

2400 6th Street, NW, Suite 306  
Washington, DC 20059



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Facsimile 202 806 4971  
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## **KEYNOTE SPEAKER:**

### **DR. VALERIE RAWLSTON WILSON**

Dr. Valerie Rawlston Wilson is the Director of the Economic Policy Institute's Program on Race, Ethnicity, and the Economy (PREE), a nationally recognized source for expert reports and policy analyses on the economic condition of America's people of color. Prior to joining EPI, Wilson was an economist and vice president of research at the National Urban League Policy Institute in Washington, D.C., where she was responsible for planning and directing the Policy



Institute's research agenda. She has written extensively on various issues impacting economic inequality in the United States—including employment and training, income and wealth disparities, access to higher education, and social insurance—and has also appeared in print, television, and radio media. In 2010, through the State Department's Bureau of International Information Programs, she was selected to deliver the keynote address at an event on Minority Economic Empowerment at the Nobel Peace Center in Oslo, Norway. In 2011, Wilson served on a National Academies Panel on Measuring and Collecting Pay Information from U.S. Employers by Gender, Race, and National Origin.

#### ***Education***

Ph.D., Economics, University of North Carolina at Chapel Hill

# HOWARD UNIVERSITY RESEARCH WEEK

April 10-14, 2017

## ACTIVITIES AT A GLANCE

### MONDAY, APRIL 10

#### Research Week Kickoff

- 10:00 AM Research Week Keynote  
Valerie Rawlston Wilson, Ph.D.  
*Black-White Wage Gaps Expand With Rising Inequality*  
Director, Race, Ethnicity, and the Economy  
Economic Policy Institute  
*Interdisciplinary Research Building, Multipurpose Room*
- 12:00 PM National Merit Award Reception & Fulbright Research  
Presentations  
*Gallery Lounge, Armour J. Blackburn University Center*

### TUESDAY, APRIL 11

#### Engaging Faculty in Research

- 10:00 AM Inside-Out with Dr. Bahiyyah Muhammad  
*Ballroom, Armour J. Blackburn University Center*
- 2:00PM A Showcase of Research by HU-ADVANCE-IT  
Mini Grant recipients  
*Multipurpose Room, Interdisciplinary Research Building*

# HOWARD UNIVERSITY RESEARCH WEEK

April 10-14, 2017

## ACTIVITIES AT A GLANCE

### WEDNESDAY, APRIL 12

#### Research Discussion

- 8:00 AM Addressing Contemporary Issues for Africans and African Americans in the Curriculum  
*Digital Auditorium, Armour J. Blackburn University Center*
- 9:00 AM Ryoichi Sasakawa Young Leaders Fellowship Fund (SYLFF) Session  
*Gallery Lounge, Armour J. Blackburn University Center*
- 9:00 AM Team Science Symposium  
*Multipurpose Room, Interdisciplinary Research Building*
- 11:00AM Forum on Contributions of Business Research to Entrepreneurship Success  
*Reading Room, Armour J. Blackburn University Center*

### THURSDAY, APRIL 13

#### Showcasing Research & Scholarly Activities

- 7:30 AM Research Symposium Registration & Continental Breakfast  
*Ballroom, Armour J. Blackburn University Center*
- 8:30 AM Greetings and Opening Remarks
- 9:00 AM Oral and Poster Presentations
- 12:00 PM Lunch – Liberal Arts Diversity Officers
- 1:15 PM Oral and Poster Presentations
- 4:30 PM Closing

### FRIDAY, APRIL 14

#### Celebrating Research at Howard University

- 1:00 PM From Research to Careers in Academia – Liberal Arts Diversity Officers  
*Gallery Lounge, Armour J. Blackburn University Center*
- 2:00 PM Research Awards & 2017 Women in STEM Researcher of the Year Award  
*Multipurpose Room, Interdisciplinary Research Building*

# ACTIVITIES IN DETAIL

## MONDAY, APRIL 10

### *Research Week Kickoff*

#### **10:00 AM      Research Week Keynote**

*Multipurpose Room, Interdisciplinary Research Building  
Dr. Valerie Wilson – Director, Program on Race, Ethnicity, and the Economy*

Economic Policy Institute’s Dr. Valerie Rawlston Wilson will speak about rising economic inequality in the United States. Dr. Wilson is a national policy expert on economic inequality and people of color. She directs EPI’s Program on Race, Ethnicity, and the Economy. The title of her remarks will be “Black-White Wage Gaps Expand with Rising Inequality.”

#### **12:00 PM      National Merit Award Reception & Fulbright Research Presentations**

*Gallery Lounge, Armour J. Blackburn University Center*

Howard University seniors and graduate students selected as winners and semi-finalists for the U.S. Fulbright Student Program will present their proposed research and planned academic studies abroad for the 2017-2018 academic year. Following the research presentations, all 2017 Howard University national prestigious scholarship award winners and finalists will receive award recognition for their upcoming research and studies abroad, including recipients and finalists of the Fulbright, Marshall, Rangel, Rhodes and Schwarzman Scholarships. Food and refreshments will be provided for lunch, buffet-style, throughout the research presentations and awards ceremony.

# ACTIVITIES IN DETAIL

**TUESDAY, APRIL 11**

*Engaging Faculty in Research*

**10:00 AM**      **Inside-Out with Dr. Bahiyyah Muhammad**  
*Ballroom, Armour J. Blackburn University Center*

Dr. Bahiyyah Muhammad, Assistant Professor in the Department of Sociology & Criminology, will headline a three-part symposium discussing her three Inside-Out Courses taught at Howard University Prisons Inside Out (dealing with incarceration), Juvenile Inside Out (dealing with Juvenile Detention Centers) and Policing Inside-Out (dealing with creating a model to build and maintain community-police trust) and taught in partnership with the International Association of Chiefs of Police – IACP). The Inside-Out Prison Exchange Program, founded in 1997 at Temple University, was based on the simple hypothesis that incarcerated men and women and college students might mutually benefit from studying crime, justice, and related social issues together as peers. The Inside Out Courses create a dynamic partnership between institutions of higher learning and police departments, correctional systems and juvenile detention centers to deepen the conversation about contemporary incarceration and policing in America and transform educational approaches to understanding crime, justice, freedom, inequality, and other issues of social concern. The symposium will address (a) issues of crime and justice from the context of a correctional facility; (b) arrest, incarceration, re-entry and re-incarceration; (c) trust, communication and transformation as experienced by “Inside” and “Outside” students in the three courses; (d) 21<sup>st</sup> Century Policing and social justice issues; (e) best practices to build trust between law enforcement and their communities. Perspectives, Insight, Best Practices and Lessons Learned from Law Enforcement, Howard University Students and Faculty, Community Members and representatives from the DC Department of Corrections and Local Youth Development Centers will be presented during the symposium.

**2:00 PM**      **A Showcase of Research by HU-ADVANCE-IT**  
**Mini Grant recipients**  
*Multipurpose Room, Interdisciplinary Research Building*

Over the past five years, HU ADVANCE-IT has provided seed funding to women in STEM researchers in the form of \$10,000 mini grants. The purpose of our mini grant program is to have an immediate impact on women faculty in STEM’s access to discretionary funds for research. These funds were meant to be used to catalyze collaborations, to attend meetings, and to provide bridge funding for research in between research grant awards. This symposium will showcase the research by the most recent cohort of mini-grant recipients and discuss how these funds were leveraged for larger sponsored research awards.



## WEDNESDAY, APRIL 12

### *Research Discussion*

#### **8:00 AM            Addressing Contemporary Issues for Africans and African Americans in the Curriculum**

*Digital Auditorium, Armour J. Blackburn University Center*

Jessica Onuzo will briefly present the life, education and work of scientist Marie Maynard Daly and mathematician Dudley Weldon Woodard. Why is this important? Even though there are, and have been African American scholars throughout history, the works of African Americans still remain invisible in the STEM curriculum. Students might learn about African Americans in Civics courses but are pleasantly surprised to learn that the famous names that they might have heard of have significant STEM achievements attached to them. Presentation will be followed by a panel discussion.

#### **9:00 AM            Ryoichi Sasakawa Young Leaders Fellowship Fund (SYLFF) Session**

*Gallery Lounge, Armour J. Blackburn University Center*

The SYLFF is a competitive and merit-based prestigious award designed to provide full financial support to our outstanding Ph.D. students admitted to candidacy with a research concentration in international affairs and world peace. The SYLFF program aims to identify and nurture leaders who will overcome differences such as nationality, language, ethnicity, religion, and political systems to tackle global issues, and whose high integrity and drive in addressing the issues unique to their respective countries can make a real difference. In this session, current SYLFF fellows will present their research and talk about their experience as a SYLFF fellow. Presentations will be followed by discussion with the audience. Dr. Mika Kato (Economics) will moderate the session.

#### **9:00 AM            Team Science Symposium**

*Multipurpose Room, Interdisciplinary Research Building*

The 2017 Team Science Symposium hosted by Howard University Research Centers in Minority Institutions (RCMI) Program will be held from 9:00am to 1:00pm in the Interdisciplinary Research Building (IRB). This year's symposium will focus on building and sustaining basic science collaborations with industry partners and on successfully navigating clinical trials at Howard University. In the afternoon, please join the RCMI Program for light refreshments at their Networking Reception at 3:00 pm in the Interdisciplinary Research Building (IRB) as they present new program initiatives and interactive website. Faculty from all schools and colleges are welcome to attend.

**11:00 AM**            **Forum on Contributions of Business Research to  
Entrepreneurship Success**  
*Reading Room, Armour J. Blackburn University Center*

This forum will facilitate discussion with Howard University School of Business scholars whose research contributes to entrepreneurship success. With the first look at research from the School of Business, the goal is to build a network of researchers across the schools and colleges at Howard University to enhance interdisciplinary research on entrepreneurship from multiple facets to meet the needs of the entrepreneurial community. A panel of School of Business faculty will highlight key findings from his/her research that can be applied to the strategic and operational decision making of entrepreneurs across industries. The discussion also will include ideas for future research needed by entrepreneurs to enhance the realization of their vision.

**THURSDAY, APRIL 13**

*Showcasing Research & Scholarly Activities*

The Annual Research Symposium is the highlight of Howard University Research Week 2017. During the research symposium, students, faculty, and research staff will discuss their research findings with each other, external visitors from various federal agencies, private industry, and surrounding universities. Prizes will be awarded for winning presentations in several categories.

- 7:30 AM**            **Research Symposium Registration & Continental Breakfast**  
*Ballroom, Armour J. Blackburn University Center*
- 8:30 AM**            **Greetings and Opening Remarks**
- 9:00 AM**            **Oral and Poster Presentations**
- 12:00 PM**          **Lunch – Liberal Arts Diversity Officers**
- 1:15 PM**            **Oral and Poster Presentations**
- 4:30 PM**            **Closing**

## **FRIDAY, APRIL 14**

### *Celebrating Research at Howard University*

**1:00 PM**            **From Research to Careers in Academia – Liberal Arts  
Diversity Officers**

*Gallery Lounge, Armour J. Blackburn University Center*

“The event culminates University-wide Research Week from April 10-14, is titled, “From Research to Careers in Academia.” The purpose of the event is to provide an opportunity for Ph.D. students and recent graduates to explore faculty career opportunities at some of the nation’s most prestigious liberal arts colleges. A panel of faculty and administrators with representation from a variety of disciplines will discuss the following:

- What a career at a liberal arts college looks like from the perspective of expectations and resources for teaching, scholarship, and service -- any questions you may have
- More than 100 tenure track faculty opportunities for 2017
- How to help you navigate your graduate and post-doctoral career
- How to put together an application, how to decide if a liberal arts college is right for you, and anything else you can think of

Graduate and undergraduate students will have the opportunity to network with representatives from Liberal Arts colleges. Representatives will present on faculty and research opportunities at their respective institutions. For those who are not currently looking for research or faculty opportunities, this would still be a great opportunity to make some valuable contacts for future employment.

If you have any interest, even if you don’t think you’ll be ready to apply in the very near future, come talk with us and learn more about our institutions.

**2:00 PM**            **Research Awards & 2017 Women in STEM  
Researcher of the Year Award**

*Multipurpose Room, Interdisciplinary Research Building*

Announcement of 2017 Research Award Winners and the 2017 Women in STEM Researcher of the Year Award.

# *Howard University Research Symposium*

*Blackburn Center*

*Thursday, April 13, 2017*

## **PROGRAM**

**7:30 – 8:30 AM**

**Registration & Continental Breakfast**

2<sup>nd</sup> Floor of Blackburn Center

**8:30 – 8:50AM**

**Greetings**

Anthony K. Wutoh, Ph.D., R.Ph.

Provost & Chief Academic Officer

**Opening Remarks**

Gary L. Harris, Ph.D., PE

Associate Provost for Research and Graduate Studies

***Presentations***

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**9:00 AM – 12:00 PM**

*Poster Presentations*

Physical Sciences &  
Engineering  
Translational & Clinical  
Sciences  
Biological & Biomedical  
Sciences

*Oral Presentations*

Humanities  
Social Sciences  
Business  
Creative Arts & Design  
Ethics, Law & Religion  
Education & Outreach

**1:15 PM – 4:30 PM**

*Poster Presentations*

Humanities  
Social Sciences  
Business  
Creative Arts & Design  
Ethics, Law & Religion  
Education & Outreach

*Oral Presentations*

Physical Sciences &  
Engineering  
Translational & Clinical  
Sciences  
Biological & Biomedical  
Sciences

# ORAL PRESENTATIONS

## SESSION I

9:00AM-10:00AM | ROOM 150 | BUSINESS

**Rajni Goel**, Senior Faculty

*In Pursuit of Greater Social Capital: Customizing Online Relationships for a Return on Investment*

**Anupam Kumar**, Junior Faculty/ Lecturer/ Instructor

*Top management team composition and environmental performance*

**Chinwe Obodo**, Undergraduate Student

*The Scramble for Africa: An Investigation of Neocolonialism and the Rise of Chinese Economic Influence within Africa*

**Amanda Scott**, Undergraduate Student

*Measuring the Effectiveness of Product Placement Among Millennial Audiences*

9:00AM-10:00AM | GALLERY LOUNGE | EDUCATION & OUTREACH

**Beverly Booker ammah**, Junior Faculty/ Lecturer/ Instructor

*Exploring the Efficacy of International Service Learning to U.S. College Student Development and Community Needs in Ghana among Students of Color*

**Bernard Kwabi-addo**, Senior Faculty

*Why Cancer Prevention and Early Detection Must be Priority*

**Nea Maloo**, Junior Faculty/ Lecturer/ Instructor

*The shades of Green - Analysis of the different building certifications/labels for green certifications, cost analysis*

**Charles Verharen**, Senior Faculty

*Howard University's Next 50 Years: Research and Teaching for the Bicentennial*

9:00AM-10:00AM | ROOM 148 | ETHICS, LAW & RELIGION

**Ashley Colvin**, Undergraduate Student

*Black women in law*

**Donshaya Courts**, Undergraduate Student

*The Challenges Facing Our Nation: Providing Possible Solutions to Police Brutality Against Citizens in the United States*

**Anupam Roy**, Undergraduate Student

*Breaking the Academy: Universal Education in the Age of Disintegrated Ethics.*

9:00AM-10:00AM | READING ROOM | HUMANITIES

**Nia Blasingame**, Undergraduate Student  
*Reframing African Consciousness and Black Activism in the Soviet World*

**Ange Dye**, Undergraduate Student  
*Moving On, Moving Up: Realities, Relations, and Advancement for Black Women in Post-Apartheid South Africa*

**Branson Falker**, Undergraduate Student  
*Lack of Diversity Within the Media*

**Alexandra Green**, Undergraduate Student  
*New Master, Same House: The Paradox of Black Women's Self Ownership in Beyonce's Lemonade*

9:00AM-10:00AM | FORUM | SOCIAL SCIENCES

**Elizabeth Akinbusuyi**, Undergraduate Student  
*Russian Nationalism and its Implications for its Relationship with the West*

**Amanda Bonam**, Undergraduate Student  
*Changing Perceptions of Environmental Responsibility in Southwest Washington, D.C.*

**Byrone Collins**, Undergraduate Student  
*Mental Health of African Americans*

**Niara Jackson**, Undergraduate Student  
*The Effects of Alcohol on the GPA of African American College Students: College Habits Affecting Academic Success*

9:00AM-10:00AM | AUDITORIUM | SOCIAL SCIENCES

**Aisha Gray**, Graduate Student  
*The Effects of African Self-Consciousness on Self-Esteem in African American college women*

**Ricco Hill**, Graduate Student  
*Mind and Body: Exploring Emotion, Emotional Regulation, and Heart Rate Variability*

**Tyriesa Howard**, Graduate Student  
*"...[M]akes it seem more real": A Qualitative Exploration of the Sexual Health of African American Adolescents with HIV-Positive Mothers*

**Sharlene Leong**, Graduate Student  
*Considerations for the Mini-Mental Status Exam in an African American Sample in a Primarily Urban Setting*

## SESSION II

10:00AM-11:00AM | ROOM 148 | EDUCATION & OUTREACH

**Norah Alfawzan**, Graduate Student

*An Examination of Attitudes Towards Women in Leadership Positions in Public Universities in Saudi Arabia*

**Rhonda Celey**, Graduate Student

*Strengthening the Academy: Scholarly Productivity of Black Ph.D. Students*

**Joycelyn Hughes**, Graduate Student

*The Critical Need for African Centered Educational Leadership*

10:00AM-11:00AM | GALLERY LOUNGE | ETHICS, LAW & RELIGION

**Jay-paul Hinds**, Junior Faculty/ Lecturer/ Instructor

*The Seduction of Ole Massa's Sons: An Examination of Race, Religion, and Sexual Perversion in the Peculiar Institution.*

**Rachel Leslie**, Graduate Student

*The Key Nodes of Impact of the Transatlantic Slave Trade and its Subsequent White Supremacist Ideologies and Models on the work and structures of the Academy in the New World*

**Andrew Lofton IV**, Graduate Student

*The Churches Role in Education Reforming*

10:00AM-11:00AM | READING ROOM | HUMANITIES

**Dominique James**, Undergraduate Student

*Looking Inside: Black Women's Literature and Healing from Crimes against the Black Female Body*

**Khaliah Peterson**, Undergraduate Student

*Labor of Love: Literary Criticism in the Creative Writing of Fanfiction*

**Maya Reese**, Undergraduate Student

*Lack of Diversity in the Film Industry*

**Sydney Wilson-roberts**, Undergraduate Student

*The Impact of the Obama Family's Use of Social Media to Portray Familial Images on African-American Millennial Views of Marriage*

10:00AM-11:00AM | ROOM 150 | SOCIAL SCIENCES

**Karen Kolivoski**, Junior Faculty/ Lecturer/ Instructor

*Assessing the Financial Impact of Misdemeanor Court Fines and Fees in a Midwestern State*

**Indira Somani**, Junior Faculty/ Lecturer/ Instructor

*Color, Caste, and the Public Sphere: A study of black journalists who joined television networks from 1994-2014*

**Wei Sun**, Junior Faculty/ Lecturer/ Instructor

*A Critical Discourse Analysis of “Minority Women for Trump” Campaigns on Social Media*

**Heidi Thomas**, Professional Student

*Nana’s Need: How to Protect the Baby Boomer Generation Now Eligible for Medicare*

10:00AM-11:00AM | FORUM | SOCIAL SCIENCES

**Ashley Lewis**, Graduate Student

*Representations of Blacks in British Television: From Past to Present*

**Christian Mallett**, Graduate Student

*Adverse Childhood Experiences, Racial Identity, and Cardiac Autonomic Dysregulation*

**Zipporah Mccoy**, Graduate Student

*The Turning Point of Formerly Incarcerated African American Men*

**Kimberly Monroe**, Graduate Student

*A Seat At The Table: Resurfacing Black Women Writing the Black Radical Tradition through Poetry*

10:00AM-11:00AM | AUDITORIUM | SOCIAL SCIENCES

**Shadya Sanders**, Graduate Student

*The Future of Probabilistic Severe Weather Forecasting: A Case Study of the 2016 Hazardous Weather Testbed*

**Alisa Valentin**, Graduate Student

*Challenging the system: A history of Women’s activism in communication policy*

**Maryam Vuai**, Graduate Student

*Regional Financial Integration-Empirical Study for East African Community*



## SESSION III

11:00AM-12:00PM | ROOM 148 | CREATIVE ARTS & DESIGN

**Cassidy Dixon**, Undergraduate Student  
*Social Media and Business Relationships*

**Olivia Drake**, Junior Faculty/ Lecturer/ Instructor  
*"I never looked at it that way!": Employing film semiotics in the video production classroom*

11:00AM-12:00AM | FORUM | EDUCATION & OUTREACH

**Obinna Asawabelem**, Undergraduate Student  
*Give. Gain. Grow Ghana: Re-framing International Service Learning through the lens of Howard University ASB students.*

**Jori Fortson**, Undergraduate Student  
*Breaking the Cycle: How Does Menstruation Impact Girls' Education?*

**Sadiyah Malcolm**, Undergraduate Student  
*Black on Black Learning: Towards a 21st Century HBCU Aesthetic*

**Jaryn Trent**, Undergraduate Student  
*The Effects of Study Time on Howard University Students' Academic Achievement*

11:00AM-12:00PM | AUDITORIUM | SOCIAL SCIENCES

**Alexa Walker**, Undergraduate Student  
*African American Women in connection to Human Trafficking in the United States*

**Megan Ware**, Undergraduate Student  
*An Exploratory Study on Coping Mechanisms, Academic Performance and Personality Traits for Howard University Undergraduate Black Males*

**Sydney Williams**, Undergraduate Student  
*Does Racial Bias in the News Coverage of Crimes Affect Racial Attitudes in Society?*

**Romie Michel**, Undergraduate Student  
*The Effects of Class Attendance on Grade Point Average After Controlling Selected Socio-demographic Variables*

**Brittany Scott**, Undergraduate Student  
*Oppressed but never Enslaved: Youth Unemployment at the Hands of a Post-Apartheid Nation*

**Jaidah Sizer**, Undergraduate Student  
*Television, The Media, and the Portrayal of Mental Illness.*

## SESSION IV

**Hassan Brim**, Senior Faculty  
*Gut microbiome analysis reveals major dysbiosis in Sickle Cell Diseases patients with a prevalence of Veillonella strains*

**Thomas Heinbockel**, Senior Faculty  
*Reversible Firing Pattern Transformation in Central Olfactory Neurons*

**Fatimah Jackson**, Senior Faculty  
*Exploring the Effects of Ancestral Genetic Composition on African American Identity*

**Sudha Sharma**, Senior Faculty  
*Emergence of a DNA Repair protein from basic science to translational medical research*

**Nowah Afangbedji**, Undergraduate Student  
*Upregulation of Renal Iron Metabolism in Sickle Cell Disease Mice*

**Zhenhong Chen**, Undergraduate Student  
*Osteological Expression of Tuberculosis within The Cobb Collection*

**Rachel Darko**, Undergraduate Student  
*Small compounds regulating Arabidopsis RACK1A protein modulates growth hormone Gibberellin signaling pathways*

**Justine Lewis**, Undergraduate Student  
*Targeting STAT3 to Inhibit Cancer Cell Growth by Genetic and Pharmacologic Methods*

**Olubukola Banmeke**, Graduate Student

*Effects of Thymus vulgaris and Varroa destructor on survival and health of European honey bees, Apis mellifera*

**Ruby Boateng**, Graduate Student

*Novel functions for the RNA-binding protein ETR-1 in Caenorhabditis elegans reproduction and physiological germline apoptosis*

**Deondre Glover**, Graduate Student

*Microbial Kinetics of Bacterial Isolates Capable of Iodate Reduction in the Presence of Nitrate and Varying Concentrations of Oxygen*

**Churchill Ihentuge**, Graduate Student

*Estimation of Body Status of 19th and 20th Century African Americans Using Skeletal Remains of the Cobb Collection*

**Tito Huber**, Senior Faculty

*Photocurrent in Bismuth Junctions with Graphene at Room Temperature*

**Anup Shukla**, Post Doc/Resident/Fellow/Research Associate

*Stochastic Modeling and Optimization in Micro-Grid*

**Solmaz Tabtabaei**, Junior Faculty/ Lecturer/ Instructor

*Electrostatic Separation as a Sustainable Approach for Dry Fractionation of Agricultural Flours*

**Hessam Yazdani**, Junior Faculty/ Lecturer/ Instructor

*Optimizing structures: nature leads the way - case study: optimization of offshore foundations using ant colony optimization*

**Pratibha Dev**, Junior Faculty/ Lecturer/ Instructor

*Theoretical/Virtual Synthesis of Ultra Thin Diamonds: Chemically Induced Phase-Change in Graphene*

**Gulriz Kurban**, Post Doc/Resident/Fellow/Research Associate

*Ligand-based Pharmacophore Modeling of Human CC-Chemokine Receptor 4 Allosteric Antagonists*

**James Momoh**, Senior Faculty

*Framework Implementation for CPES on Micro-grid Test Bed*

**Hassan Salmani**, Junior Faculty/ Lecturer/ Instructor  
*COTD: Reference-Free Hardware Trojan Detection and Recovery Based on Controllability and Observability in Gate-Level Netlist*

1:15PM-2:15PM | ROOM 148 | TRANSLATIONAL & CLINICAL SCIENCES

**Emmanuel Akala**, Senior Faculty  
*Microenvironmental Responsive Polymeric Nanoparticles Fabricated By Dispersion Polymerization for The Delivery of Bioactive Agents*

**Earl Ettienne**, Junior Faculty/ Lecturer/ Instructor  
*Clinical Pharmacogenetic Testing in the Management of Opioid Use Disorder: A Case Series*

**Xinbin Gu**, Senior Faculty  
*MiRNA-124 Mediates Sphingosine Kinase 1 Expression, Sphingosine-1-phosphate and Ceramide Signaling Pathways in Head and Neck Squamous Cell Carcinoma*

## SESSION V

2:15PM-3:15PM | GALLERY LOUNGE | BIOLOGICAL & BIOMEDICAL SCIENCES

**Simeon Adesina**, Junior Faculty/ Lecturer/ Instructor  
*Site-specific brusatol delivery to facilitate clinical translation for cancer chemotherapy*

**George Middendorf**, Senior Faculty  
*Sloths in the city: unexpectedly high density of pale-throated three-toed sloths (*Bradypus tridactylus*) found in an urban forest patch in Paramaribo, Suriname*

**Zaki Sherif**, Senior Faculty  
*TP73's regulation and expression in human cancer cell lines*

**Priscilla Wessly**, Post Doc/Resident/Fellow/Research Associate  
*Effect of gender on the association of isokinetic quadriceps strength with hypertension among older Americans.*

**Janet Mansaray**, Undergraduate Student  
*Molecular phylogeny of *Rumex* based on *psbA-trnH* intergenic spacer*

**Rita Okolo**, Undergraduate Student  
*Cancer in an Historic Washington DC African American population*

**Morgen Owens**, Undergraduate Student  
*Edaphic factors influence stomatal development and physical defense in a Ni-hyperaccumulator*

**Gean Abotsi**, Professional Student  
*Open & Endovascular Ruptured AAA Repair Have Equivalent Outcome When Performed Weekdays vs Weekends*

**Julien Jean-francois**, Professional Student  
*Should Active Surveillance Be Offered to African American Men with Low Risk Prostate Cancer?*

**Sandeep Nadella**, Post Doc/Resident/Fellow/Research Associate  
*Dietary Fat Stimulates Growth of Pancreatic Cancer Growth Through The Cholecystokinin Receptor*

**Fasil Tiruneh**, Post Doc/Resident/Fellow/Research Associate  
*Analyses of Ventilation perfusion (VQ) scan results as compared with clinical probability of pulmonary embolism in a predominantly Black population*

**Oluwaseye Adekanye**, Graduate Student  
*Non-standard Finite Difference (NSFD) Schemes : Achieving Dynamical Consistency*

**Hawazin Alghamdi**, Graduate Student  
*Adsorption and Separation of Water and Nitrogen Mixtures on a Graphene Substrate*

**Daniel Attah**, Graduate Student  
*Simultaneous Transformation of Co-existing Cr(VI)-TCE Contaminant Media Using Zero Valent Iron, ZVI.*

**Alejandro Pardo ramos**, Graduate Student  
*Validation and verification of bidirectional seismic analysis of a high damping rubber isolation system*

**Christopher Cross**, Graduate Student

*A Historic African American Skeletal Collection Reveals Bacterial Infections*

**Abraham Kazemi**, Professional Student

*Efficacy and Safety of Azelaic Acid 15% Gel versus Hydroquinone 4% Cream in the Treatment of Melasma*

**Kalie Kowalski**, Graduate Student

*Orthodontists and Speech-Language Pathologists: Investigating the Need for IPP and IPE*

**Keisha Lindsay**, Graduate Student

*A Developmental Profile of Phonology in Trinidadian English Creole-Speaking Preschoolers*

**Adebayo Atanda**, Post Doc/Resident/Fellow/Research Associate

*Rheumatic Heart Disease in Sickle Cell Disease in Sub-Saharan Africa*

**Maurice Fluitt**, Post Doc/Resident/Fellow/Research Associate

*Dysregulation of Energy Regulating Hormones and MicroRNAs: A Model of Metabolic Dysfunction*

**Xionghao Lin**, Post Doc/Resident/Fellow/Research Associate

*Inhibition of HIV-1 Infection in Humanized Mice and Metabolic Stability of Protein Phosphatase-1-targeting Small Molecule 1E7-03*

**Anahita Shahnazi**, Post Doc/Resident/Fellow/Research Associate

*Utility and Safety of ERCP in the Elderly*

## SESSION VI

3:15PM-4:30PM | GALLERY LOUNGE | BIOLOGICAL & BIOMEDICAL SCIENCES  
TRANSLATIONAL & CLINICAL SCIENCES

**Janelle-cheri Millen**, Post Doc/Resident/Fellow/Research Associate  
*A Rare Case of Segmental Testicular Infarction in a Patient with Polycythemia Vera*

**Priscilla Okunji**, Junior Faculty/ Lecturer/ Instructor  
*Prevalence of Alzheimer Disease in Hospitalized Patients with Congestive Heart Failure: Patient Characteristics*

**Christian Parry**, Junior Faculty/ Lecturer/ Instructor  
*Global Phosphoproteomic and Structural Analyses of Ebola Virions*

**Ebony Russ**, Graduate Student  
*Does FEV1 in addition to Fixed Ratio and/or Lower Limit of Normal of FEV1/FVC improve prediction of Mortality? The NHANES-III-linked-Mortality Cohort*

**Marie Plaisime**, Graduate Student  
*Airflow Obstruction, Cognitive Function and Mortality in a US National Cohort: NHANES-III*

3:15PM-4:30PM | ROOM 148 | BIOLOGICAL & BIOMEDICAL SCIENCES  
TRANSLATIONAL & CLINICAL SCIENCES

**Latifa Jackson**, Post Doc/Resident/Fellow/Research Associate  
*Violence impacts allostatic load IgE and Epstein Barr Virus levels in urban youth*

**Namita Kumari**, Post Doc/Resident/Fellow/Research Associate  
*Altered Iron Metabolism in Sickle Cell Disease Modulate Viral Restriction Factors*

**Kevin Scriber, II**, Graduate Student  
*The diet and trophic position of apple snails (*Pomacea spp.*) in native habitats.*

**Michael Smith**, Graduate Student  
*Susceptible snails treated with actin-myosin inhibitor before exposure to *Schistosoma mansoni* lowers stress levels in snails*

**Stephanie Purnell**, Professional Student  
*Genitourinary Paraganglioma: Demographic, Pathologic, and Clinical Characteristics in the Surveillance, Epidemiology, and End Results (SEER) Database (2000-2012)*

**Riya Kanherkar**, Graduate Student

*Generation of Induced pluripotent stem cells (iPSCs) from Hutchinson-Gilford Progeria Syndrome (HGPS) patient fibroblasts using lentiviral, episomal and mRNA based reprogramming methods*

**Israa Malli**, Graduate Student

*Scaffold Protein RACK1 Potentially Regulates IRES-mediated Virus Translation: A Target for HIV-1 Proliferation Inhibition*

**Swetha Parvathaneni**, Graduate Student

*Molecular regulation of chemotherapeutic response in cancer*

**Komitige Perera**, Graduate Student

*Mannosylated Surfaces exhibit self-adhesive interactions*

**Timara Benson**, Graduate Student

*The Effects of Household Co-solvents on Trichloroethylene Solubility*

**Tiffany Ellison**, Graduate Student

*A Novel Synthesis for the Darunavir Core*

**Jamal Gilmore**, Undergraduate Student

*Development and Optimization of Machine Learning Algorithms & Models of Relevance to Large Databases Using MatLab*

**Darryl Jennings Jr.**, Graduate Student

*Feasibility of effective cooling through integrating Microchannel Heat Sinks (MCHSs) and nanofluids in power module design*

**Tigist Mohammed**, Graduate Student

*A Hybrid Fuzzy Logic and Artificial Neural Network Based Load Frequency Control for Micro Grid*



**Keenan Hunt-stone**, Undergraduate Student  
*Using Apollo Data to Characterize the Lunar Environment*

**Marina Markous**, Undergraduate Student  
*Characterization and Properties of Wrinkle-free Cotton Fabrics via 1,2,3,4-Butanetetracarboxylic acid and Polypropylene glycol diethyl ether*

**Michael Schroeder**, Undergraduate Student  
*Bison Bikes*

**Simone Stanley**, Undergraduate Student  
*ThermoHUE: A Smartphone Application for Chemical Kinetics Experiments*

**Antoine Vignon**, Undergraduate Student  
*Analysis of Graphene/semiconductor interfaces using Raman spectroscopy*

**Iman Ahmed**, Undergraduate Student  
*Characterization of Functionalized Graphene Nanoplatelets using Scanning Electron Microscopy and Raman Spectroscopy*

**Alston Clark**, Undergraduate Student  
*Identification With Machine Learning Algorithm: K-Nearest Neighbors*

**Damon Gresham-chisolm**, Undergraduate Student  
*Method for automated measuring of residual resistance ratio and superconducting transition temperature of single substrate materials in superconducting microchips*

**Aaron Jackson**, Post Doc/Resident/Fellow/Research Associate  
*Electronic Control of the Charge State of Nitrogen Vacancies in Diamond*

**Marie-urlima Okeke**, Graduate Student  
*Model of vestibular fluid response to body motion*

# Poster Exhibition

**Yvonne Abbey**, Graduate Student, Translational & Clinical Sciences

*Stealth Polymeric Nanoparticles Fabricated by Dispersion Polymerization for Combination Drug Loading Suitable for Breast Cancer Treatment*

**Tomilowo Abijo**, Graduate Student, Biological & Biomedical Sciences

*Downregulation of spargel/dPGC-1 in the wings protects epithelial cell death like a proapoptotic gene*

**Edem Abotsi**, Graduate Student, Biological & Biomedical Sciences

*Lower Extremity Arterial Reconstruction is Associated with Worse Outcomes when Performed on Weekends*

**Naomi Adams**, Undergraduate Student, Physical Sciences & Engineering

*Functionalized Silica Magnetite Nanoparticles for Magnetic Removal of Lead from Aqueous Solutions*

**Akeem Adebogun**, Post Doc/Resident/Fellow/Research Associate, Translational & Clinical Sciences

*Timing Of ERCP And Inpatient Mortality Among Patients Hospitalized For Cholangitis*

**Adetokunbo Adedokun**, Post Doc/Resident/Fellow/Research Associate, Translational & Clinical Sciences

*Evaluation of Vancomycin Dosing and Monitoring at an Urban, Community Hospital in Washington, D.C.: A Pre- and Post-Intervention Study*

**Oluwakemi Adeola**, Graduate Student, Translational & Clinical Sciences

*A systematic Review of the Effects of Hibiscus Sabdariffa on Metabolic Syndrome*

**Adewale Adepoju**, Graduate Student, Physical Sciences & Engineering

*Effect of Sorted Single-Walled Carbon Nanotubes on Rate Capability of Lithium-ion Batteries*

**Ali Afsari**, Post Doc/Resident/Fellow/Research Associate, Translational & Clinical Sciences

*HPV, HIV and male gender as major risk factors for anal neoplastic transformation in African Americans*

**Asrar Ahmad**, Post Doc/Resident/Fellow/Research Associate, Biological & Biomedical Sciences

*Role of NHERF1 in aging animal models of salt sensitive hypertension (SSH) and chronic kidney disease (CKD)*

**Aisha Ahmed**, Undergraduate Student, Biological & Biomedical Sciences

*A Species Distribution Model of Ethiopian Phlebotomine Sandflies*

**Muhammed Ahmed**, Undergraduate Student, Biological & Biomedical Sciences

*Isolation of Bacteriophage Infected with Mycobacterium smegmatis*

**Tolulope Akingbade**, Undergraduate Student, Physical Sciences & Engineering

*Precision and Accuracy of Fused Deposition Modeling (FDM) 3D printed parts across three grades of printers.*

**Ann-marie Ako-adounvo**, Graduate Student, Translational & Clinical Sciences

*Development, Characterization and In Vitro Testing of Brinzolamide-Loaded Poly(lactic-co-glycolic acid (PLGA) Nanoparticles*

**Alexander Akoto**, Professional Student, Translational & Clinical Sciences

*Fixation of pediatric clavicle fractures: Safety, efficacy, and feasibility for the ambulatory setting.*

**Misagh Alaie Faradonbeh**, Graduate Student, Physical Sciences & Engineering

*Modeling of Current density in Cathode materials with Nano Particle for Lithium Ion Batteries.*

**Jameshisa Alexander**, Undergraduate Student, Biological & Biomedical Sciences

*Analysis of flavonoid prenyltransferase genes by the Induction of Isoflavonoid by methyl jasmonate (MJ) in Pueraria Cell suspension*

**Amira Alghumgham**, Graduate Student, Business

*Are Economic Development Projects Tipping Points for Their Neighborhoods?*

**Rachelle Allen-mcfarlane**, Graduate Student, Biological & Biomedical Sciences  
*Multibacteriocinogenic Lactobacillus parafarraginis* KU495926 Inhibits Multi-Drug Resistant Gram-negative Bacterial Pathogens

**Joycemary Amponsem**, Undergraduate Student, Biological & Biomedical Sciences  
*The effect of Peroxisome Proliferator-Activated Receptor- $\alpha$  on NOX-4 expression in the heart during a slow-pressor dose of Angiotensin-II induced hypertension*

**Maxwell Anderson**, Graduate Student, Translational & Clinical Sciences  
*Sleep-disordered Breathing and Rapid Eye Movement (REM) Sleep Arousals in African Americans with Posttraumatic Stress Disorder.*

**Kevin Aninta**, Undergraduate Student, Biological & Biomedical Sciences  
*Exploring the Life Cycle of Phage AxelR8 through Host Mycobacterium smegmatis*

**Sarah Anvery**, Professional Student, Biological & Biomedical Sciences  
*The Role of Mucin-type O-Glycosylation in Packaging and Secretion of O-Glycosylated Proteins*

**Okechukwu Anyamele**, Undergraduate Student, Biological & Biomedical Sciences  
*Salvianolic Acid B Inhibits Head and Neck Squamous Cell Carcinoma Cell Growth by Regulation of miRNA Profile*

**Olufunmi Ariyo**, Professional Student, Education & Outreach  
*Knowledge, attitudes and readiness regarding naloxone for opioid overdose reversal in pharmacy students about to enter practice*

**Imer Arnautovic**, Graduate Student, Social Sciences  
*Gender Moderates the Impact of Induced Mindfulness on Moral Decisions and Decisional Certainty*

**Hassan Ashktorab**, Senior Faculty, Translational & Clinical Sciences  
*Distinctive variants in African American with colorectal neoplasia*

**Nazli Atefi**, Post Doc/Resident/Fellow/Research Associate, Translational & Clinical Sciences  
*Is the rate of Sessile Serrated Polyp/Adenoma different in African Americans?*

**Jace Austin**, Undergraduate Student, Social Sciences  
*Mass Media or a weapon in disguise? A historical case study of the approaches in which news and films have drastically influenced and controlled the narration of African-American lives.*

**Hamed Azimi**, Post Doc/Resident/Fellow/Research Associate, Translational & Clinical Sciences  
*Assessment of risk of developing Pancreatic risk with ATM gene mutation based on the genetics of hereditary pancreatitis by using Saliva: A Multi-Center evaluation.*

**Anisa Bailey**, Undergraduate Student, Education & Outreach  
*'Good Slips' Behavior Management Intervention*

**Njlaa Bakhsh**, Graduate Student, Biological & Biomedical Sciences  
*The missing landscape of human genomic diversity in the Arabian Peninsula*

**Garima Bansal**, Graduate Student, Biological & Biomedical Sciences  
*Phenotypic and Molecular Characterization of Nosocomial Multi-Drug Resistant Acinetobacter baumannii Isolates from Four Washington DC Area Hospitals*

**Dominique Barrett**, Undergraduate Student, Education & Outreach  
*How Speech Intelligibility Affects Individuals*

**Saswati Basu**, Post Doc/Resident/Fellow/Research Associate, Biological & Biomedical Sciences  
*Effect on Oligosaccharide Grafting on the Polyelectrolyte and Protonation Dynamics of Polyethylenimine*

**Kirsten Bazemore**, Professional Student, Education & Outreach  
*Evaluating the Impact of the Howard University College of Pharmacy's Pharmacy Biomedical Preview (PBP) Program on Academic Performance*

**Milan Benn**, Undergraduate Student, Social Sciences  
*Struggle and Resilience: Novel Traits in the Black Self-Stereotype*

**Eugene Bivins**, Professional Student, Translational & Clinical Sciences  
*Radiographic Evaluation of Scrotal Pain with Pathological Correlation: A Pictorial Review*

**Linda Boadi**, Staff, Translational & Clinical Sciences  
*How Does the Estrous Cycle Influence Fear Conditioning in Female Mice?*

**Daphney Bonner**, Undergraduate Student, Biological & Biomedical Sciences  
*Collection, Isolation, Purification, and Extraction of Phage DaMari*

**Anthony Brandon**, Undergraduate Student, Physical Sciences & Engineering  
*Transfer and Characterization of 2d Graphene and Hexagonal Boron Nitride on to Silicon Carbide*

**Mia Broughton**, Undergraduate Student, Biological & Biomedical Sciences  
*Hypoxia facilitates NEPC transdifferentiation*

**Brianna Brower**, Graduate Student, Ethics, Law & Religion  
*The Relationship between Mental Illness, Neighborhood Disadvantage and Delinquency among African American Youth Arrested in the District of Columbia*

**Kallie Brown**, Undergraduate Student, Social Sciences  
*The Effects of Parent-Adolescent Communication on Academic Achievement in African American Middle and High School Students*

**Maia Brown**, Undergraduate Student, Biological & Biomedical Sciences  
*The Road to Finding Chloe2x*

**Imani Brown**, Staff, Translational & Clinical Sciences  
*Perspectives on supported employment for dually diagnosed clients on medically assisted therapy for opioid use disorder*

**Detron Brown**, Professional Student, Translational & Clinical Sciences  
*30 day admissions in the Post-HAART era in a urban teaching institution: The impact of compliance and ART use*

**Collis Brown**, Staff, Biological & Biomedical Sciences  
*Muscadine Grape Skin Extract Inhibits Androgen-Independent Prostate Cancer Cell Growth, Inducing Cell-Cycle Arrest, and Decreasing Migration by Targeting Heat Shock Protein 40 U*

**Huy Bui**, Undergraduate Student, Creative Arts & Design  
*Alleviating City's Environmental Impacts and Revitalizing Its Urban Fabric Through Green Roofs – A Case Study In Ho Chi Minh, Vietnam*

**Jeffery Bullock**, Graduate Student, Biological & Biomedical Sciences  
*Consensus Comparative Modeling to Construct Structural Models of Human C-C Chemokine receptor 4 (CCR4) to Discover Small-Molecule Therapeutics to Treat Cancer Metastasis*

**Dymond Burnette**, Undergraduate Student, Biological & Biomedical Sciences  
*Lyme: An Insidious Disease*

**Clinton Burnside**, Staff, Education & Outreach  
*The impact of the US Preventive Task Force recommendations against prostate screening on utilization of the Howard University Cancer Center's "Men Take Ten" prostate cancer screening program*

**Taylor Burroughs**, Undergraduate Student, Biological & Biomedical Sciences  
*Discovering Bacteriophage PLMatters*

**Desiree Butler**, Undergraduate Student, Biological & Biomedical Sciences  
*"Unearthing Bacteriophage and Obtaining its Characteristics"*

**Nia Butler**, Undergraduate Student, Biological & Biomedical Sciences  
*Differential Patterns of Genetic Diversity at the Interleukin-6 Proinflammatory Gene in Geographically Distinct Human Populations*

**Claudia Byer-tyre**, Undergraduate Student, Social Sciences  
*Neighborhood Disorganization and Cohesion Predict Adverse Childhood Experience Prevalence*

**Dominique Bynum-cooper**, Undergraduate Student, Biological & Biomedical Sciences  
*Antibiotic Resistance Profiles of Bacteria Associated with Two Phlebotomine Sand Fly Species*

**Darryl Caesar**, Professional Student, Biological & Biomedical Sciences  
*Evaluating the antibacterial effects of blackseed oil from *Nigella sativa* against intraoral bacteria *Step mutans*.*

**Laura Campbell**, Undergraduate Student, Biological & Biomedical Sciences  
*The Anti-Inflammatory and Anti-Hypertensive Mechanisms of Peroxisome Proliferator Activated Receptor-alpha in the Brain during Angiotensin II Hypertension*

**Valynsia Campbell-scott**, Undergraduate Student, Translational & Clinical Sciences  
*A Pilot Study of High-Intensity Eccentric Exercise on Vascular Endothelial Function and Arterial Stiffness In Young Adult African-American Women With and Without Parental Hypertension*

**Angela Carter**, Undergraduate Student, Social Sciences  
*Negro In Modernity: Preliminary Study of the Meta-Cognitive Processes of African Racial Esteem.*

**Nia Casey**, Undergraduate Student, Social Sciences  
*Effects of South African Prenatal Care on Low Infant Birth Weight*

**Asiah Cauley**, Undergraduate Student, Biological & Biomedical Sciences  
*Life Cycle Characterization of OGAshia*

**Jianfei Che**, Post Doc/Resident/Fellow/Research Associate, Biological & Biomedical Sciences  
*GO Modified MgO Nanoparticles (MgO@GO) Reinforced PLA Nanocomposites*

**Zion Clarke**, Undergraduate Student, Physical Sciences & Engineering  
*Method to Characterizing the Thermal Conductivity of Microchip Packaging Material Using Thermal Cycling and a Modified Cut-Bar Method*

**Cameron Clarke**, Undergraduate Student, Biological & Biomedical Sciences  
*Effect of Single-Dose and Fractionated Radiation on Fatty Acid Synthesis*

**Carter Clinton**, Graduate Student, Biological & Biomedical Sciences  
*Creation of a Genomic Database from New York African Burial Ground Soil Samples*

**Daria Coffield**, Undergraduate Student, Biological & Biomedical Sciences  
*Collection, Isolation, and Purification of Bacteriophage*

**Mariah Cook**, Undergraduate Student, Biological & Biomedical Sciences  
*Isolation and Characterization of bacteriophage diversity from a soil sample collected from Harriett Tubman Quadrangle using *Mycobacterium smegmatis**

**Carlton Crockett**, Graduate Student, Translational & Clinical Sciences  
*Risk Factors Related to Adolescent Obesity among African-American, Caucasian-American and Mexican-American Adolescents (Ages 12-19 years)*

**Antonei Csoka**, Senior Faculty, Biological & Biomedical Sciences  
*An Epigenetic analysis of the Effects of WIN 55, 212*

**Gashaw Dadi**, Graduate Student, Translational & Clinical Sciences  
*The Impact of Cardiovascular Risk Factors on Pulse Pressure in African Americans with Stage I Hypertension*

**Kaitlin Dadisman**, Undergraduate Student, Translational & Clinical Sciences  
*Addressing the Disproportionate Occurance of Metabolic Syndrome and It's Complications among Black Americanas*

**Roderick Davis**, Professional Student, Education & Outreach

*The Feasibility of using an Intern Readiness Course to Provide the Structure for Assessing Entrustable Professional Activities*

**Leonna Davis-ross**, Graduate Student, Social Sciences

*The Impact of Cultural Socialization and Self-Esteem on Career Aspirations among Low-Income African American Adolescent Girls*

**Akiv Dawson**, Graduate Student, Social Sciences

*Black Lives Matter in the Public Sphere: A Critical Race Analysis of Opinion-editorials about Police Violence*

**Yewande Dayo**, Professional Student, Translational & Clinical Sciences

*Comparison of Cardiovascular risk assessments from the American College of Cardiology (ACC)/ American Heart Association (AHA) and the Adult Treatment Panel (ATP III) in a HIV infected population: eligibility and appropriateness of lipid lowering treatment*

**Emanuel Demissie**, Undergraduate Student, Biological & Biomedical Sciences

*Investigating the association of rs6276 Single Nucleotide Polymorphism in Dopamine receptor DRD2 gene With C-reactive protein in African American Young Adults.*

**Mohamed Doumbia**, Graduate Student, Physical Sciences & Engineering

*Performance of Lithium Iron Phosphate (LFP) with modified electrode material*

**Amber Durand**, Undergraduate Student, Biological & Biomedical Sciences

*The Digitization of Mid-Atlantic Specimens in the Howard University Herbarium*

**Jaquial Durham**, Graduate Student, Social Sciences

*Black Solidarity with the People of Palestine*

**Tayler Edmond**, Undergraduate Student, Biological & Biomedical Sciences

*A Systematic Review of Ethnic Disparities in Herpes Zoster Immunization for Elderly Adult Populations*

**Sarah Edoho**, Undergraduate Student, Biological & Biomedical Sciences

*The Adventures of Phage Discovery, Isolation, and Purification*

**Linell Edwards**, Graduate Student, Social Sciences

*Student engagement in higher education: Exploring the interrelationships of student engagement components and their relationship with positive school outcomes*

**Tierra Ellis**, Graduate Student, Education & Outreach

*Cultivating Melanin in STEM fields through the NCAS CAREERS Weather Camp*

**Nkechi Enwerem**, Junior Faculty/ Lecturer/ Instructor, Social Sciences

*Prevalence of Parkinson Disease in Hospitalized Patients with Congestive Heart Failure*

**Deanna Esan**, Undergraduate Student, Biological & Biomedical Sciences

*Isolation and Characterization of Ryvitor04, a lytic bacteriophage isolated from soil*

**Amoge Ezike**, Undergraduate Student, Social Sciences

*Underlying Causes of Xenophobic Violence in South Africa*

**Amoge Ezike**, Undergraduate Student, Biological & Biomedical Sciences

*Bactericidal Activity of Hagenia abyssinica Extracts on Vancomycin-resistant Clinical Isolates*

**Mayowa Fageyinbo**, Undergraduate Student, Social Sciences

*Childhood Trauma and Adult Mental Illness*

**Lourds Fernando**, Graduate Student, Biological & Biomedical Sciences

*Potential non-canonical roles of the 26S proteasome system in C. elegans reproduction*

**Daniellue Finley**, Undergraduate Student, Education & Outreach

*A Study on the Small Group Re-Teaching of Phonics to 3rd grade Students*

**Kenisha Ford**, Graduate Student, Education & Outreach

*The Implementation of Technology and Its Effect on Course Performance*

**Jeantelle Francis**, Undergraduate Student, Physical Sciences & Engineering

*Utilizing Cryogenic Cycling and the Comparative Cut-bar Method to Characterize the Resistivity of Copper and Niobium*

**Curtis Frederick**, Professional Student, Biological & Biomedical Sciences

*Partially divided gastric remnant distention causing chronic nausea and vomiting*

**Curtis Frederick**, Professional Student, Biological & Biomedical Sciences  
*Cardiac Computed Tomography (CT) and Cardiac Risk Classification*

**E'leyna Garcia**, Graduate Student, Translational & Clinical Sciences

*The Influence of Sleep and Perceived Stress on Difficulties with Emotion Regulation in a Diverse Sample of Adolescents and Young Adults*

**Shashwati Geed**, GHUCCTS Research Fellow, Translational & Clinical Sciences

*Paging Dr. Lasagna: Why Early Inpatient Rehab Trial Recruitment Rate is in Single Digits*

**Shima Ghavimi**, Post Doc/Resident/Fellow/Research Associate, Translational & Clinical Sciences

*Pulmonary Manifestations of Inflammatory Bowel Disease*

**Dometria Gilbert**, Undergraduate Student, Biological & Biomedical Sciences

*The Role of Prostate Cancer Derived Exosomes in Metabolism*

**Marviana Gills**, Undergraduate Student, Education & Outreach

*Elementary Students and their Attitude and Achievement Toward Math*

**Gean Gilot**, Professional Student, Biological & Biomedical Sciences

*Open and Endovascular Ruptured Abdominal Aortic Aneurysm Repair have Equivalent Outcomes when Performed on Weekday vs Weekend*

**Nitya Gittens**, Undergraduate Student, Creative Arts & Design

*Advertising As Advocacy: How Advertising Can Combat the Real Life Implications of Mute-Group Theory.*

**Umamaheshwari Golconda**, Post Doc/Resident/Fellow/Research Associate, Translational & Clinical Sciences

*Does poor prognosis in African Americans with MSI-H colorectal cancer associate with altered immune markers?*

**Rina Gonzalez-albazzaz**, Professional Student, Biological & Biomedical Sciences

*Early Menarche Onset in Female Minorities as an Important Precursor for the Initiation of Orthodontic Treatment*

**Destini Goodly**, Undergraduate Student, Biological & Biomedical Sciences

*Role of PI3K/AKT Signaling Pathway in Regulation of Expression of Androgen Receptor in ABCG2+ CWR-R1 Prostate Cancer Cells*

**Jasmin Goodman**, Graduate Student, Social Sciences

*Awkward at HBO: The Adaptation of Issa Rae's Awkward Black Girl Web series for Mainstream Television*

**Vamshi vasantha raya Gorantla**, Post Doc/Resident/Fellow/Research Associate, Translational & Clinical Sciences

*Does the location and histopathological status of colon polyps affect interval colonoscopy*

**Johnny Graham**, Junior Faculty/ Lecturer/Instructor, Business

*"Pour Me Some 'Dirty Sprite': An Exploratory Analysis Of Brand Appropriation"*

**Sean Grant**, Undergraduate Student, Physical Sciences & Engineering

*Location-based Lightweight Security for Wireless Communications in ROAR Architecture*

**Kirstie Grant**, Graduate Student, Biological & Biomedical Sciences

*Investigation of sexual systems associated with species of the genus Rumex using compared reconstructed molecular phylogenies*

**Natasha Graves**, Undergraduate Student, Social Sciences  
*The Power of Light in Design to Heal Our Internal Balance*

**Bryanna Gray**, Professional Student, Translational & Clinical Sciences  
*In vitro Characterization of Anticancer Drug-loaded Nanoparticles*

**Whitney Griffith**, Undergraduate Student, Physical Sciences & Engineering  
*The Establishment of the Cobb Lab's Information System*

**Brittany Grossi**, Undergraduate Student, Biological & Biomedical Sciences  
*The Phage, The Myth, The Legend: MiloGrossi*

**King Gyasi**, Professional Student, Social Sciences  
*Economic Community of West African States' (ECOWAS) Inclusion in the International Council of Harmonization (ICH) Initiative: Overcoming Barriers to Pharmaceutical Global Regulatory Harmonization*

**Sidney Hall**, Undergraduate Student, Biological & Biomedical Sciences  
*A web based tool for for Next-Generation Sequencing data*

**Anika Hamilton**, Undergraduate Student, Biological & Biomedical Sciences  
*Antimicrobial Activity of Extracts of *Chamaemelum nobile* and *Amphipterygium adstringens* Against Pathogenic Bacteria*

**Michael Harris**, Undergraduate Student, Education & Outreach  
*Conceptualization of Math Problems*

**John Harvey**, Graduate Student, Biological & Biomedical Sciences  
*Dopaminergic Synaptic Transmission Regulates Mitral Cell Activity in the Olfactory Bulb*

**Alessandra Haskin**, Professional Student, Translational & Clinical Sciences  
*Pemphigus vulgaris with laryngeal involvement in an African patient: A case report and review*

**Mark Hatcher**, Staff, Biological & Biomedical Sciences  
*Sex differences in fear conditioning following footshock stress in mice*

**Ariyiana Haynes**, Undergraduate Student, Social Sciences  
*Does the Low Number of African American Attorneys in the U.S. Correspond with the Number of Young Aspiring Lawyers?*

**Olga Herren**, Graduate Student, Translational & Clinical Sciences  
*Do Inflammatory Mechanisms Mediate the Relationship between Executive Functions and Eating Behaviors in African Americans?*

**Kemar Hibbert**, Graduate Student, Physical Sciences & Engineering  
*The Influence of FDB Build Parameters on the Mechanical Properties of 3D-Printed Acrylonitrile Butadiene Styrene (ABS)*

**Nissan Hill**, Undergraduate Student, Biological & Biomedical Sciences  
*Isolation and Assesment of Bacteriophages Diversity from a Soil Sample at 39.115 N and -77.5 E Howard University, Washington DC*

**Brionna Hines**, Undergraduate Student, Education & Outreach  
*Peer tutoring affects on low-achieving elementary school students*

**Paige Hodges**, Undergraduate Student, Biological & Biomedical Sciences  
*Isolation and Analyzation of Bacteriophage PaigePhage's DNA*

**Kaila Holloway**, Undergraduate Student, Physical Sciences & Engineering  
*The Preparation of Isoflavones and Chromones Used for Hydroxylase and Prenyltransferase Enzyme Assay in Miroestrol Synthesis*

**Brittany Holman**, Graduate Student, Translational & Clinical Sciences  
*Comparison of auditory processing abilities evaluated by Non-Verbal Measures versus Standard Verbal Measures*



**Nicholas Holtgrewe**, Post Doc/Resident/  
Fellow/Research Associate, Physical Sciences &  
Engineering  
*Chemistry within compressed alkali azides (NaN<sub>3</sub>,  
KN<sub>3</sub>)*

**Maalik Hornbuckle**, Undergraduate Student,  
Physical Sciences & Engineering  
*Analysis and Predictive Modeling of Alumni  
Donations*

**Farhana Hossain**, Undergraduate Student,  
Biological & Biomedical Sciences  
*Anatomical and Genetic Characterization of *Pila  
scutata* (Mousson, 1848)*

**Keyera Howard**, Undergraduate Student,  
Education & Outreach  
*There's more to "cooking" than Ramen Noodles.*

**Erica Howard**, Professional Student, Biological  
& Biomedical Sciences  
*Opdivo® (Nivolumab): A Cost Effectiveness  
Analysis in Melanoma*

**Noble Htar**, Professional Student, Humanities  
*A Crowdsourced, Comprehensive Database of  
Rare Diseases Prevalent Predominant in People of  
African Descent: The Case Study of Noma*

**Indajae Huff**, Undergraduate Student,  
Translational & Clinical Sciences  
*Nutrition related Genetic Deficiencies: Glucose-  
6- Phosphate Dehydrogenase*

**Heba Hussein**, Post Doc/Resident/Fellow/  
Research Associate, Translational & Clinical  
Sciences  
*1,25-dihydroxyvitamin D3 inhibits Oral Squamous  
Cell Carcinoma Cells Growth through Regulation  
of miRNA Expression*

**Aliza Ibad**, Graduate Student, Biological &  
Biomedical Sciences  
*Expression Profiles of miRNAs as Potential  
Biomarkers in HPV-infected Anal Carcinomas*

**Ehimen Ibhadode**, Graduate Student, Physical  
Sciences & Engineering  
*Intelligent Control for mitigating Voltage-VAr in a  
Microgrid*

**Khristian Ifill**, Undergraduate Student, Biological  
& Biomedical Sciences  
*Assessment on the Resurgence of Rickets and  
Scoliosis on African Americans*

**Afoma Ihekwaba**, Graduate Student, Physical  
Sciences & Engineering  
*Analysis of Electric Vehicle Charging Impact on  
Grid Voltage Regulation*

**Meyeneobong Inyang**, Professional Student,  
Translational & Clinical Sciences  
*Calcinosis Cutis as a Complication of Morphea*

**Akira Isaac**, Undergraduate Student, Biological  
& Biomedical Sciences  
*The Role of Spargel/dPGC-1 in the Growth of the  
*Drosophila* Ovaries*

**Jarrett Jackson**, Undergraduate Student,  
Biological & Biomedical Sciences  
*Expression of Claudin-5 Tight Junction Protein in  
SIV-Infected Primate Brain*

**Joy rosa Jackson**, Undergraduate Student,  
Biological & Biomedical Sciences  
*Necrosis, Alcohol, and the Heart*

**Jelissa Jackson**, Undergraduate Student, Social  
Sciences  
*A Descriptive Study on the Effect of Social Media  
on Interpersonal Relationships for Students at  
Howard University*

**Alexis James**, Undergraduate Student, Biological  
& Biomedical Sciences  
*Defining Webster2: The Isolation, Purification,  
and Analysis of a Bacteriophage*

**Jemila James**, Post Doc/Resident/Fellow/  
Research Associate, Biological & Biomedical  
Sciences  
*Alzheimer's Disease and Other Dementias in Sub-  
Saharan African and the Caribbean*

**Monica Javidnia**, GHUCCTS Research Fellow,  
Translational & Clinical Sciences  
*The tyrosine kinase inhibitor pazopanib is a  
potential therapeutic for the tauopathies*

**Hope Jenkins**, Graduate Student, Social Sciences  
*Differences in Clinical Symptoms Between Public  
and Boarding Schools in the District of Columbia*

**Joanna Jenkins**, Junior Faculty/ Lecturer/  
Instructor, Ethics, Law & Religion  
*Womanism & Advertising Ethics in a Converged  
Era (Poster Design or Oral Presentation)*

**Danasia Jenkins**, Undergraduate Student,  
Biological & Biomedical Sciences  
*Trichomoniasis (STI) in African-Americans*

**Rashaad-dreana Jett**, Undergraduate Student,  
Translational & Clinical Sciences  
*A Preliminary Study of Acute Aerobic Exercise on  
Total Peripheral Resistance During Mental Stress  
in Young Adult African Americans*

**Gretchen Johnson**, Graduate Student, Biological  
& Biomedical Sciences  
*Reconstruction of the early population history  
of Africans in the Americas through St. Helena  
Island (South Atlantic) and New York City*

**Toni Johnson**, Undergraduate Student, Biological  
& Biomedical Sciences  
*Isolation and characterization of bacteriophage  
Maven86*

**Tariq Johnson**, Undergraduate Student,  
Biological & Biomedical Sciences  
*Analyzing The Antimicrobial Effects of Chemical  
Compounds on Biofilm Development*

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Humanities  
*Study Abroad: Minorities vs. Non-minorities*

**K. Giselle Johnson**, Undergraduate Student,  
Humanities  
*ReDefining Entertainment in the Digital Age: Is  
digital streaming the new wave of programming  
for regular entertainment?*

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Sciences  
*Global Child Trafficking: A Review of the  
Literature*

**Michael Jones**, Post Doc/Resident/Fellow/  
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Sciences  
*Harmaline Induces Tremor and Suppresses  
Auditory Startle Reflex in Mice*

**Abrienne Joseph**, Undergraduate Student,  
Biological & Biomedical Sciences  
*The Isolation and Characterization of JaedahBea,  
a Lytic Bacteriophage*

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& Clinical Sciences  
*Outcomes of Hospitalized Patients Diagnosed  
With Congestive Heart Failure: Patients and  
Hospital Characteristics*

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Clinical Sciences  
*Identification of HIV Drug Transporter Targets  
on Primary Human CD4+ T Cells and vaginal  
epithelial cells*

**Arshdeep Kaur**, Graduate Student, Translational  
& Clinical Sciences  
*Quality of Life, Patient Satisfaction, and  
Psychological Distress in Ethnically Diverse  
Patients with Hormone Receptor Positive Breast  
Cancer*

**Ladonna Kearse**, Professional Student, Education  
& Outreach  
*An Undifferentiated Intern Readiness Course for  
Fourth Year Medical Students Prepares for the  
Transition to Internship*

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*Colorism among African Americans influences  
Attractiveness and Personality-Trait Stereotypes*

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*Photoacoustic Monitoring of Radiation-Induced  
Salivary Gland Damage*

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Biological & Biomedical Sciences  
*Accuracy and Role of CT Angiography of  
Pulmonary Arteries in Detecting Pulmonary  
Embolisms and Cardiac Malformations*

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Biological & Biomedical Sciences  
*Cardiac autonomic changes as rhythms are  
processed*

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*The Effects of A Slow Pressor Dose of Angiotensin  
II on Sodium Transporters Expression in the  
Kidney Cortex are Independent of PPAR-alpha*

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Biological & Biomedical Sciences  
*Determining Activational and Topographical  
Differences in the Paraventricular Nucleus of the  
Thalamus of Binge Eating Prone and Resistant  
Rats*

**Keri Kirk**, Graduate Student, Social Sciences  
*Relationship Between Physical Activity,  
Personality, and Eating Behaviors on BMI in  
Black Women*

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Social Sciences  
*Racial Disparities at Intervention Points in the  
Juvenile Justice System*

**Oluwapelumi Kolawole**, Undergraduate Student,  
Biological & Biomedical Sciences  
*The Discovery of Bacteriophage*

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& Biomedical Sciences  
*Complications in Primary Cleft Palate Repair: A  
Review of the ACS NSQIP Pediatric Database*

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*Origin and Dispersal of True Seals Based on  
Recent Fossil Evidence*

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Biological & Biomedical Sciences  
*The Isolation and Purification of Phage Tichi*

**Amol Kulkarni**, Junior Faculty/ Lecturer/  
Instructor, Translational & Clinical Sciences  
*Small molecule development for innate immunity-  
derived inflammatory disorders*

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Biological & Biomedical Sciences  
*Understanding Evolutionary Patterns in the  
Sjogren Syndrome-Antigen B Gene in Worldwide  
Populations*

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Sciences & Engineering  
*ROAR: Real-time Opportunistic Spectrum Access  
in Cognitive Radio Networks*

**Lauren Latten**, Professional Student, Biological  
& Biomedical Sciences  
*A Cost-Effectiveness Analysis of Eplusa  
Compared to Viekira Pak for Treatment of  
Hepatitis C*

**Ivan Lau**, Professional Student, Social Sciences  
*A Comprehensive Database of Histone  
Deacetylase Inhibitors to Induce Latent HIV-1  
Reactivation*

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*Cultural Responsiveness: The Function of School  
Psychologists in Response to Intervention Models*

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Research Associate, Translational & Clinical  
Sciences  
*Assessing Anticoagulation Control using Time  
within Therapeutic Range (TTR)*

**Alana Lelo**, GHUCCTS Research Fellow,  
Translational & Clinical Sciences  
*STAG2 as a Prognostic Biomarker for Predicting  
Post-TURBT Recurrence in Non-Muscle Invasive  
Urothelial Carcinoma*

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Business  
*Audit Fee Trends from 2000 to 2014*

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*Survey Regarding Evaluating Children for  
Auditory Processing for Parents and Professionals*

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*Estimation of Fracture Risk in an HIV-Infected  
Population in the District of Columbia*

**Xinyi Liu**, Undergraduate Student, Translational  
& Clinical Sciences  
*Using Medical Nutritional Therapy to Address  
Health Disparities in Diabetes Management*

**Giordanne Logan**, Undergraduate Student,  
Biological & Biomedical Sciences  
*Characterization of Unique Bacteriophage Coffee*

**Tiana Lopez**, Undergraduate Student, Biological  
& Biomedical Sciences  
*Isolation and Purification of Monster Phage Using  
Mycobacterium smegmatis*

**Angelica Mack**, Undergraduate Student, Physical  
Sciences & Engineering  
*5 $\alpha$ -Reductase Inhibitory Activity (in silico):  
Synthesis of Avicoquinone C and Derivatives*

**Sara Maimouni**, GHUCCTS Research Fellow,  
Translational & Clinical Sciences  
*Metabo-Therapy for RARRES-1 Depleted  
Epithelial Cells Using Repurposed Mitochondrial  
Metabolism Inhibitor Metformin*

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*Adaptive Cybersecurity through Federated Cloud  
Computing Architecture*

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*Influence of Saturation and Meibum Structure*

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*Exploring Health Disparities in Dental Care  
Providers' Delivery of Tobacco Use Treatment*

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Arts & Design  
*Morg-Folio: An App/Website for the Costume  
Designer's Research Process*

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*Incorporating 3-D Online Anatomical models in  
Allied Health Anatomy labs*

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*Purifying Pollutant; Photodegradation and  
Tobacco Effluent*

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Biological & Biomedical Sciences  
*Characterization of Mycobacteriophage  
CousinLit*

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*How Consumerism Caused (and Can End) the  
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*Thermally Tuned Optical Metamaterials*

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Sciences  
*Development of small molecule Anti-Ebola  
compounds*

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*Comparative anatomy of extraocular muscles and  
orbital neurovascular structures in cetaceans and  
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*Syllable structures and word lengths in Mexican  
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*Sri Lankan National Integration and  
Reconciliation in the quest for Justice*

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Translational & Clinical Sciences  
*Examining the role of Medical Nutrition Therapy  
to Address the Health Disparities of Metabolic  
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*Raman Spectroscopy of Compressed Water and  
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*High Public Regard and Race Tailoring Increases  
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*The Isolation and Discovery of Actinobacteria  
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*Acute Aerobic Exercise Does Not Alter Heart Rate  
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*Use of CDNB Assay to Determine Calreticulin  
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*Effects of Acute Aerobic Exercise on Mood  
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*Isolation and Characterization of Bacteriophage  
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*The Role of Medical Nutrition Therapy in the  
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*Loss of Resistance to Angiotensin II (Ang II)  
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Recombination Activating (Rag1) Gene Null  
Mouse on the C57BL/6J Background*

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*Metabotropic glutamate receptors and GABA  
receptors regulate firing properties in mitral cells  
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*Immunohistochemical localization of parvalbumin  
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*User Anomalous Activity Detection in Mobile  
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*Bacteriophage Raju*

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*Differential Diagnoses of Oral Mucosal Lesions in The Pediatric Patient*

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*The Black Press*

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*The Exploration of the Effects of Contraceptive Use on the Mental Health of African-American College Women in Relation to their Counterparts on Howard University's campus*

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*Reversal of The ERα Negative Receptor in Human Breast Cancer Cells by Dichloro-naphthoquinone Analog*

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*Studies of a Trap Scholar: The Birth of Trap Music and Its Effects on Hip Hop*

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*Gender Differences and the Impact of Exposure to Violence on Alcohol, Drug Use, and HIV Risk Behaviors among African American Young Adults*

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*Race Relations and Self-Esteem*

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*Are Endometrial Polyps Associated with  
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*Simultaneous Degradation of Cr(VI) and TCE  
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*Organochlorine Exposures and Neurobehavioral  
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*The incidence of electronic medical record  
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clinic at a teaching hospital in Washington, D.C.*

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*Isolation and Characterization of Bacteriophages  
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*RECQ1 Expression Upon DNA Damage*

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*Non-Linear Bending Mechanics of Three-  
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*Metabolic Syndrome, Inflammation, and it's  
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*Malocclusion and Speech Therapy in Individuals  
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*Small-group instruction, specifically differentiated  
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*Long-Term Timing of Globular Cluster Pulsars*

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*Immune reconstitution inflammatory  
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*Bioinformatics Analysis of Rare Coding Variants  
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*Isolation, Purification, and Characterization of  
Bacteriophage Doodle1*

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*Survey Regarding Evaluating Children for  
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*How does the teacher-student relationship quality  
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*Evaluation of Knowledge, Interest, and Readiness  
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*Isolation and Characterization of Bacteriophage  
GT3*

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*Cultural Responsive Pedagogy in the Classroom:  
The Correlation Between the Cross-Cultural  
Communicative Processes for Educators, African-  
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*United States Humanitarian Intervention: To Lead  
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*Implementing Universal Health Coverage in  
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*Defining and understanding patient-provider  
communication in news stories from the Black  
Press: A content analysis.*



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*International students and residents' attitudes and behavior regarding the provision of care for underserved patients*

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*Investigation of the role of the C. elegans gene *etr-1* by exon-specific genome editing using CRISPR/Cas9 system*

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*Isolation, Purification, and Characterization of N(au)la*

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*Separation of Music by Genre Using Feature Extraction Tools and Fitness Function*

**Jaelyn Vigeo**, Undergraduate Student, Biological & Biomedical Sciences

*Bacteriophage 'DorisAnne', Isolated from Garden soil, Shows Lytic Activity Against Mycobacterium smegmatis mc2155 Jaelyn Vigeo, Alicia Calixte, Deanna Esan, Michael Okoro, Michael Smith, Adrian Allen, Broderick Eribo, Courtney Robinson, Ayele Gugssa, Mar*

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*Construction and characterization of a reverse genetics system of Zika virus*

**Ze-jun Wang**, Junior Faculty/ Lecturer/ Instructor, Biological & Biomedical Sciences

*Specific Interaction of Amphiphiles with Sodium Channels*

**Raines Warren**, Undergraduate Student, Biological & Biomedical Sciences

*The Isolation and Purification of Jules Winnfield with the Host Bacteria of Mycobacterium smegmatis*

**Silwat Waseem**, Undergraduate Student, Biological & Biomedical Sciences

*Superoxide Dismutase Activity in Caenorhabditis elegans*

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*Analyzing the Activity of Chemical Compounds Against Vibrio Cholerae Biofilms*

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*Impact of embedding professional political engagement activities in curriculum on student knowledge and attitudes*

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*Phenotypic and Molecular Characterization of a Lytic Mycobacterium smegmatis mc2155 phage*

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*Citizenship-by-Investment Programs in the Eastern Caribbean: Economic Benefits and Rewards*

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*Rouge22 Isolation, Purification, and Investigation*

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*A systematic review of ethnic disparities in receipt of the pneumococcal vaccine amongst elderly adult populations over the last ten years*

**Tamea Williams**, Undergraduate Student, Social Sciences

*Association Between Location and Hypertension Among Individuals in the Cobb Collection 70 Years Ago to Present, A Statistical Approach*

**Samantha Williams**, Undergraduate Student, Translational & Clinical Sciences

*The Role of Medical Nutrition Therapy in Addressing Health Disparities Associated with Obesity*

**Pheona Williams**, Graduate Student, Physical Sciences & Engineering

*Terahertz Spectroscopy of Dirac Plasmons in New Topological Insulators*

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*Sex differences in sleep after footshock stress in mice*

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& Biomedical Sciences  
*Isolation and Characterization of  
Mycobacteriophage Renaissance*

**Stephen Wright**, GHUCCTS Research Fellow,  
Translational & Clinical Sciences  
*An analysis of how consumer physical activity  
monitors are used in biomedical research*

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Sciences  
*Dasatinib Induced colitis: A rare case of  
chemotherapy side effect*

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*Graphene, a promising addition to Lithium Iron  
Phosphate batteries*

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*Biomimetic Formation of Shape-controlled  
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Georgetown-Howard Universities Center for Clinical and Translational Science



## REQUEST FOR PRE- AND POST-DOCTORAL TRAINEE APPLICATIONS IN TRANSLATIONAL BIOMEDICAL SCIENCE

**WHAT:** Georgetown-Howard Universities Center for Clinical and Translational Science (GHUCCTS) is now accepting applications for its TL1 Pre- and Post-doctoral Training Program in Translational Biomedical Science (TBS). Trainees will receive dual mentorship in basic science and clinical research based on an individualized Career Development Plan (CDP), including: 1) didactic education in human health and disease along with technical skill development and rigorous research methodology; 2) mentored experiential learning in clinical medicine; 3) dual-mentored research training in preclinical and clinical research; 4) individualized career guidance; and, 5) training in team science & leadership skills.

**WHO:** Predoctoral students who have completed their qualifying exams in PhD programs at Howard or Georgetown Universities. Postdoctoral fellows who have a primary appointment at Georgetown or Howard Universities, a MedStar Institution or the Washington VA.

**FUNDING:** Predoctoral student stipends follow individual PhD program levels; Postdoctoral fellow salaries follow NIH guidelines.

**WHEN:** Applications are due **Saturday, July 1, 2017**

This program's start date is **October 1, 2017** and awards will be announced **August 1, 2017**. Complete RFA can be downloaded from our website: [www.translationalbiomedicalscience.org](http://www.translationalbiomedicalscience.org). Contact Emily Bujold for more information ([tbsprogram@ghuccts.org](mailto:tbsprogram@ghuccts.org)).



**THE TIME IS  
ALWAYS NOW**

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