HOWARD UNIVERSITY

RESEARCH SYMPOSIUM

April 3-28, 2023

PROGRAM BOOK
## Research Month 2023 Activities

### Monday, April 3
12:00 PM – 3:00PM

**Research Month Opening Ceremony**

**Location:** Interdisciplinary Research Building, Multipurpose Room

### Tuesday, April 4
5:30 PM – 8:00 PM

**Innovation Unscripted with Dr. Cato Laurencin**

**Moderator:**
Dr. Wayne A.I. Frederick, President, Howard University

**Location:** Interdisciplinary Research Building, Multipurpose Room

### Wednesday, April 5
9:30 AM – 3:00 PM

**Cancer Health Equity Scientific Symposium**

**Keynote Address:**
Dr. Jennifer Grandis, Professor and Principal Investigator, University of California, San Francisco Head and Neck Cancer Lab
Dr. Daniel Johnson, Principal Investigator, University of California, San Francisco Head and Neck Cancer Lab

**Location:** Interdisciplinary Research Building, Multipurpose Room

### Thursday, April 6
12:00 PM – 4:00 PM

**Research @Howard University**

**Presenter:**
Dr. Bruce A. Jones, Ph.D, Professor and Vice President for Research

**Location:** Interdisciplinary Research Building, Multipurpose Room

### Friday, April 7
1:00 PM – 3:00 PM

**Applied Research Lab for Intelligence and Security, University of Maryland Seminar**

**Presenter:**
Dr. Erin Fitzgerald, Director, Intelligence & Security University Research Enterprise

**Location:** Interdisciplinary Research Building, Multipurpose Room

### Tuesday, April 11
1:00 PM – 3:00 PM

**Mellon Social Justice Consortium Seminar:**

*Forbidden Black Love: My Quest to Understand America's Unrecognized Civil Rights Issue*

**Presenter:**
Dr. Dianne Stewart, Samuel Chandler Dobbs Professor of Religion & African American Studies, Emory University

**Location:** Interdisciplinary Research Building, Multipurpose Room
HOWARD UNIVERSITY RESEARCH MONTH 2023 ACTIVITIES

WEDNESDAY, APRIL 12
04:00 PM - 6:00PM
Howard University ADVANCE-IT Celebration- Women in STEM Researcher of the Year Award
Presenter:
Dr. Sonya Smith, Professor, Mechanical Engineering, Howard University
Location: Interdisciplinary Research Building, Multipurpose Room

THURSDAY, APRIL 13
1:00 PM - 3:00 PM
Idaho National Laboratory Seminar
Presenter:
Dr. Erin Searcy, Chief Technology Officer, Nuclear Science and Technology
Location: Interdisciplinary Research Building, Multipurpose Room

FRIDAY, APRIL 14
12:00 PM - 2:00PM
STEM Research Training Opportunities at Department of Energy
Energy National Laboratories
Presenters:
Dr. Asmeret Asefaw Berhe, Director, DOE Office of Science
Dr. Ping Ge, Director, DOE Office of Science
Dr. Brandi Tolliver, Program Manager, DOE Office of Science
Dr. Igor Slowing, Program Manager, DOE Office of Science
Dr. Allison Truhlar, Program Manager, DOE Office of Science
Ms. Adrianna Reece-Newman, Senior, Howard University
Dr. Sonya Smith, Professor, Mechanical Engineering, Howard University
Location: Interdisciplinary Research Building, Multipurpose Room

MONDAY, APRIL 17
12:00 PM – 3:00 PM
DC Center for AIDS Research (DC CFAR) Research Student Symposium
Presenters:
DC CFAR High School Research Scholars
Location: Interdisciplinary Research Building, Multipurpose Room

6:00 PM - 9:00PM
Introduction to Research
Presenters:
Howard University Undergraduate Research Journal, Ukweli, Editors & Staff
Location: Interdisciplinary Research Building, Multipurpose Room
TUESDAY, APRIL 18
1:00 PM - 4:00PM
Exploring health physics and medical isotope opportunities within the Howard University-Brookhaven National Laboratory connection

Presenters:
Dr. Abram Ledbetter, Brookhaven National Laboratory
Dr. Vanessa Sanders, Brookhaven National Laboratory
Dr. Gagandeep Kaur, Assistant Professor, Howard University
Dr. Rao Khan, Professor, Howard University
Dr. Paul Wang, Professor, Howard University
Dr. Tsang Wei-Tu, Associate Professor, Howard University

Location: Interdisciplinary Research Building, Multipurpose Room

6:00 PM - 9:00PM
Public Speaking

Presenters:
Howard University Undergraduate Research Journal, Ukweli, Editors & Staff

Location: Interdisciplinary Research Building, Multipurpose Room

WEDNESDAY, APRIL 19
10:00 AM - 12:00PM
Brookhaven National Laboratory Seminar

Presenter:
Dr. John Hill, Director, National Synchrotron Light Source II, Brookhaven National Laboratory

Location: Interdisciplinary Research Building, Multipurpose Room

1:00 PM - 5:00PM
Pfizer 3D Drug Discovery and Development Workshop

Workshop Facilitators:
Dr. Pamela Smith, Vaccines Medical Director, Pfizer, Inc.
Dr. Megan Robinson, Director, R&D Scientific Learning

Location: Interdisciplinary Research Building, Multipurpose Room

6:00 PM - 9:00PM
Resume Review and Application Workshop

Presenters:
Howard University Undergraduate Research Journal, Ukweli, Editors & Staff

Location: Interdisciplinary Research Building, Multipurpose Room
THURSDAY, APRIL 20
12:00 PM - 03:00PM
Impact of Artificial Intelligence/Machine Learning to Research and Teaching

Speakers:
Dr. Anietie Andy, Assistant Professor, Computer Science
Dr. Legand Burge III, Professor, Computer Science
Dr. Gloria Washington, Associate Professor, Computer Science
Dr. Amy Yeboah Quarkume, Associate Professor of Africana Studies

Location: Interdisciplinary Research Building, Multipurpose Room

FRIDAY, APRIL 21
11:00 AM - 02:00PM
DoD Center of Excellence in Artificial Intelligence & Machine Learning Seminar

Speakers:
Dr. Danda Rawat, Professor, Electrical Engineering & Computer Science
Howard University DoD Center of Excellence in Artificial Intelligence & Machine Learning (AI/ML), Undergraduate & Graduate Scholars

Location: Interdisciplinary Research Building, Multipurpose Room

6:00 PM – 9:00 PM
Howard University Undergraduate Research Journal Symposium and Awards Ceremony

Presenters:
Howard University Undergraduate Research Journal, Ukweli, Editors & Staff

Location: Interdisciplinary Research Building, Multipurpose Room

MONDAY, APRIL 24
9:00 AM – 2:00 PM
U.S. Department of Homeland Security, EQUIP, EMPOWER, HIRE, RETAIN

Presenters:
Program Managers from U.S. Department of Homeland Security, Cybersecurity & Infrastructure Security Agency

Location: Interdisciplinary Research Building, Multipurpose Room

12:00 PM – 1:00 PM
NSF Graduate Research Fellowship Program Seminar

Presenters:
NSF Program Dire

Location: Hybrid, Interdisciplinary Research Building, Multipurpose Room
TUESDAY, APRIL 25
1:00 PM – 2:00 PM
Howard University- Columbia University Materials Research Science and Engineering Centers (MRSEC) and Partnerships for Research and Education in Materials (PREM) SEED Partnership

Presenters:
Dr. James Hone, Professor, Columbia University
Dr. Kim Lewis, Associate Dean for Research, Howard University
Dr. Colin Nuckolls, Professor, Columbia University
Dr. Sonya Smith, Professor, Howard University

Location: Interdisciplinary Research Building, Multipurpose Room

03:00 PM – 05:00PM
Chadwick A. Boseman College of Fine Arts Symposium, An Artistic Research Journey

Presenters:
Chadwick S. Boseman College of Fine Arts, Mellon Scholars

Location: Interdisciplinary Research Building, Multipurpose Room

WEDNESDAY, APRIL 26
10:00 AM – 11:30 AM
Leaving No One Behind: Equitable Outcomes in Sustainable Development

Presenters:
Professor Justin Hansford, Director, Howard University Law School and The Thurgood Marshall Civil Rights Center
Dr. Helen Bond, Professor, Howard University School of Education United Nations, Sustainable Development Solutions Network (UNSDSN & SDSN USA)

Location: Virtual

WEDNESDAY, APRIL 26
3:00 PM – 5:00 PM
The Graduate School – Publishing Workshop

Presenter:
Dr. Terri Adams, Associate Dean for Research, The Graduate School
Dr. Christopher Boxe, Associate Professor, College of Arts & Sciences
Dr. Sen Chiao, Director of NOAA, NCAS-M
Dr. Clarence Lusane, Professor, College of Arts & Sciences
Dr. Shadya Sanders, Postdoctoral Fellow, NOAA, NCAS-M
Dr. Dana Williams, Dean, The Graduate School

Location: Interdisciplinary Research Building, Multipurpose Room
THURSDAY, APRIL 27

8:00 AM – 5:00 PM  The Research Symposium

7:30 AM  Registration & Continental Breakfast
9:00 AM  Oral & Poster Presentations
12:00 PM  Lunch
12:00 PM  DOW SURE (Scholars Undergraduate Research Experience) Seminar
National Geospatial-Intelligence Agency Seminar
1:05 PM  Oral & Poster Presentations
5:00 PM  Closing

Location: Interdisciplinary Research Building

FRIDAY, APRIL 28

8:00 AM – 5:00 PM  The Research Symposium

7:30 AM  Registration & Continental Breakfast
9:00 AM  Oral & Poster Presentations
12:00 PM  Lunch
12:00 PM  Lockheed Martin Information Session
1:15 PM  Oral & Poster Presentations
5:00 PM  Closing

Location: Interdisciplinary Research Building

FRIDAY, APRIL 28

3:00 PM – 8:00 PM  Office of Research - Pitch HU Symposium

Presenters:
Mr. Terry Adams, IP Marketing and Faculty Innovation Specialist, Office of Research, Howard University
Mr. Ajit Verghese, Founder and General Partner, Humble Ventures

Location: Interdisciplinary Research Building, Multipurpose Room
March 29, 2023

Dear Howard University Community,

The Office of Research will host *HU Research Month (April 1-29, 2023)*. During Research Month, Howard University will celebrate and honor the tremendous research that is conducted by our faculty, students, and research staff. In addition, the expansion to a full month better enables the Howard community to thank our external institutional partners who support HU research as many of these partners will be on the Howard campus throughout the month of April.

Key events of *HU Research Month* will include the following:

**The Opening Event**
- Office of Research, *HU Research Month Opening Ceremony and Luncheon* on April 3.

**Our Partner Events**
- The *Innovation Unscripted with Dr. Cato Laurencin and President Wayne A.I. Frederick* on April 4.
- From HU Cancer Center, *Cancer Health Equity Scientific Symposium* on April 5.
- From JLABS, *The Engagement and Entrepreneurship to Advance Innovation Seminar* on April 14.
- The *Mellon Social Justice Consortium Seminar* on April 11.
- The *Idaho National Laboratory Seminar* on April 13.
- From DOE, *STEM Research Training Opportunities at Department of Energy National Labs* on April 14.
- The *Brookhaven National Laboratory Seminar* on April 19.
- The *Howard University Undergraduate Research Journal Symposium and Awards Ceremony* on April 21.
- The *NSF Graduate Research Fellowship Seminar* on April 24.
- From The Chadwick A. Boseman College of Fine Arts, *An Artistic Journey* on April 25.

**The Signature Event**
- The widely acclaimed *Research Symposium* on April 27–28. This signature event brings together students, faculty, and research staff in the Interdisciplinary Research Building (IRB) to discuss their research findings with members of the Howard community, external constituents, and supporters from various federal and local agencies as well as representatives of the philanthropic and higher education community.

**The Closing Event**

Please mark your calendars and save the dates for the events listed above!

Sincerely,

Bruce Jones, Ph.D.
Professor and Vice President for Research
INTERDISCIPLINARY RESEARCH BUILDING
APRIL 27 – 28, 2023

PROGRAM

7:30–8:30 AM  Registration & Continental Breakfast
  1st Floor, Interdisciplinary Research Building

8:30–8:50 AM  Greetings
  Anthony K. Wutoh, Ph.D., R.Ph.
  Provost & Chief Academic Officer

  Opening Remarks
  Bruce Jones, Ph.D.
  Vice President for Research
## PRESENTATIONS

### April 27, 2023

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<td>Biological &amp; Biomedical Sciences</td>
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**Lunch**

**12:00 – 1:00 PM**
ORAL PRESENTATIONS

APRIL 27, 2023

SESSION I

9:00 AM - 10:00 AM | 2ND FLOOR CONFERENCE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Haijun Gao, Junior Faculty / Lecturer / Instructor
Potential roles of BNIP3 mediated placental mitophagy in the development of gestational diabetes mellitus

Vaisakh Nair, Professional Student
Effects of a High Fat and High Fructose Diet on Insulin Signaling in LivARKO Mice via Protein Expression levels of P-AKT

Sarees Shaikh, Graduate Student
Exploring the Role of Hydrodynamic Shear on the Pattern and Kinetics of Staphylococcus aureus Adhesion

Haley Warren, Undergraduate Student
Validating the Boggiano Intermittent Feeding Paradigm as a Chronic Model for Binge Eating Prone and Resistant Behaviors

9:00 AM - 10:00 AM | 3RD FLOOR CONFERENCE ROOM | EDUCATION & OUTREACH

Nia Goodall, Undergraduate Student
The Importance of Early Mental Health Representation to Save Black Youth

Courvaun Hill, Graduate Student
Putting Success in the Budget for DCPS

Catherine Quinlan, Senior Faculty
Black Representation In the STEAM Curriculum (BRISC)

Michaela Spears, Undergraduate Student
Association of Western Diet with Breast Cancer in African American

9:00 AM - 10:00 AM | FACULTY LOUNGE | SOCIAL SCIENCES

Samuel Anthony, Undergraduate Student
Africana Studies: Limitations and Possibilities

Zoé Coker, Undergraduate Student
Jazzing Up the Curriculum: On the History of Jazz at Howard University

Sydney Coleman, Graduate Student
Black Women's Internationalism and the Publications of the National Council of Negro Women

Charrosé King-Mathews, Graduate Student
The Atypical Mermaid: Reading The Little Mermaid Against the Grain to Contextualize My Experience as an Autistic Black Girl
## SESSION II

### 10:00 AM – 11:00 AM | 2ND FLOOR CONFERENCE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

**Jaylin Gant**, Undergraduate Student  
*Title: Understanding Gorlin Syndrome: Biomedical Importance and Health Disparity*

**Thomas Heinbockel**, Senior Faculty  
*Cannabinoid receptor-mediated synaptic signaling and neural plasticity in central olfactory neurons*

**Nina Nwade**, Professional Student  
*Investigating Cutaneous T-Cell Lymphoma Immunopathogenesis and Gene Expression in Skin of Color Patients from Howard University Dermatology*

### 10:00 AM - 11:00 AM | 3RD FLOOR CONFERENCE ROOM | EDUCATION & OUTREACH

**Ashley Clark**, Graduate Student  
*The Relationship Between School Climate, School Context and School Structures*

**Catherine Quinlan**, Senior Faculty  
*How Failure and Psychotherapy Helped Me Succeed in my Career*

**Kathleen Rzucidlo**, Graduate Student  
*Longing for the “HBCU Experience”: A Case Study Exploration of Campus Involvement During the Pandemic*

### 10:00 AM - 11:00 AM | 3RD FLOOR CONFERENCE ROOM | TRANSLATIONAL & CLINICAL SCIENCES

**Shreedhar Devkota**, Post Doc/Resident/Fellow/Research Associate  
*A novel sulfonylurea compound reduces neuroinflammation in the murine model of vascular dementia*

### 10:00 AM - 11:00 AM | FACULTY LOUNGE | SOCIAL SCIENCES

**Mikah Jones**, Graduate Student  
*Understanding the Effects of Data Pollution on Marginalized Communities in the South*

**Nkechi Enwerem**, Senior Faculty  
*Using Human Center Design (HCD) to identify challenges Expectant and Parenting Teens (EPTs) in Washington DC, face in finishing High School.*

**Jasmin Miller**, Graduate Student  
*Economic Wealth in Black Students with Loans*

**Jordyn Taylor**, Undergraduate Student  
*The application of the Face Negotiation Theory to the social and political conflict of the African American community*
### SESSION III

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<th>Time</th>
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<th>Topic</th>
<th>Presenter, Status</th>
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<td>11:00 AM - 12:00 PM</td>
<td>2ND FLOOR CONFERENCE ROOM</td>
<td>BIOLOGICAL &amp; BIOMEDICAL SCIENCES</td>
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<tr>
<td></td>
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<td>Kidus Alemayehu, Undergraduate Student</td>
<td>The FENTANYL Crisis</td>
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<td>Tashanti Bridgett, Graduate Student</td>
<td>Hypertension &amp; Pregnancy: The Domino Effect in African American Women</td>
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<td>Ryan Peters, Undergraduate Student</td>
<td>Lung Cancer and Health Disparities in African Americans</td>
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<td>3RD FLOOR CONFERENCE ROOM</td>
<td>ETHICS LAW &amp; RELIGION</td>
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<td>Matthew Bruckner, Junior Faculty / Lecturer / Instructor</td>
<td>Bankruptcy in Black and White: The Effect of Race and Bankruptcy Code Exemptions on Wealth</td>
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<td>Alexia Green, Professional Student</td>
<td>Are you my doctor? Exploring the legal implications of nurse practitioners, most prevalent in underserved communities, being treated as physicians.</td>
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<td>Jy’mir Starks, Undergraduate Student</td>
<td>The Place of Speech in West African Coup D’états: A Consciencist Analysis of Transitional Governance and State Sentiment</td>
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<td>HUMANITIES</td>
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<td>Christopher Newman, Graduate Student</td>
<td>Savages and Sable Subjects: Anti-Black Racism and Demonization of New Orleans Voodoo in the Nineteenth Century</td>
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<td>SOCIAL SCIENCES</td>
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<td>Hanadi Alabaad, Graduate Student</td>
<td>Does The Increase Of Female In The Labor Market Boost Economic Growth?</td>
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<td>Deyonna Grant, Graduate Student</td>
<td>Estrangement: Are Black Students Progressively Disconnecting from the Classroom? And If So, Why?</td>
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<td>Shaleeta Jones, Graduate Student</td>
<td>Speaking Volumes: Analysis of Figurative Language in Discourse Samples of Culturally and Linguistically Diverse Adolescents</td>
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SESSION IV

1:00 PM - 2:00 PM | 2ND FLOOR CONFERENCE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

**Kirsten Branch**, Undergraduate Student
Uncovering the Interactions of Non-POU Domain-Containing Octamer-Binding (NONO) Protein during Innate Immune Response to Improve Novel Brain Cancer Treatment

**Ananya Hota**, Undergraduate Student
SroA regulates Staphyloxanthin pigment synthesis in Staphylococcus aureus

**Fathia Oladipupo**, Undergraduate Student
Impact of Sleep Quality during Pregnancy

1:00 PM - 2:00 PM | 3RD FLOOR CONFERENCE ROOM | HUMANITIES

**Rachel Craddolph**, Graduate Student
Dr. Merze V. Tate - Scholar Diplomat

**Kimberly Prosper**, Graduate Student
Breaking the Silence and Eliminating the Taboo: Using a Peer Educator Model to Educate Black Women about Uterine Fibroids in Houston TX

**Mesi Walton**, Junior Faculty / Lecturer / Instructor
Bullerengue and Maroonage in Colombia’s Atlantic

1:00 PM - 2:00 PM | FACULTY LOUNGE | SOCIAL SCIENCES

**Hugh Allen Goffinet**, Undergraduate Student
Warriors From A Distant Shore: Afro-Jamaicans in Union Blue

**Taijhaliyah Hill**, Undergraduate Student
“No one’s mad sis. Chile.“: Social Media and the use of African American Vernacular English

**Sahara Sampson**, Undergraduate Student
Expressive Arts and its Effects on Adverse Childhood Experiences (ACE)

**Hannah Stevenson**, Graduate Student
The Intersectional Relationship between Internalized Antiblackness, Phenotypic Privilege, and Belonging in Black/White Biracial People in the United States
SESSION V

2:00 PM - 3:00 PM | 2ND FLOOR CONFERENCE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Florence Gonzalez, Staff
Strategies for Inclusion of People with Limited English Proficiency in Research

Hannah Hollis, Undergraduate Student
Relationship Between Prostate Cancer Rates and the SDOH in Delaware’s African American Men

Sandra Ikejiofor, Undergraduate Student
The Impact of Inadequate Access to Quality Clinical Care on Lung Cancer Mortality Rates

Krushi Suresh, Undergraduate Student
miRNAs, Extracellular Vesicles and Autoimmune Diseases

2:00 PM - 3:00 PM | 3RD FLOOR CONFERENCE ROOM | HUMANITIES

Summer Brown, Undergraduate Student
From Riots to Reporting: How America’s Political Climate Affects News

Symone Campbell, Graduate Student
“Digital Underground:” A Multimodal Critical Discourse Analysis of K-12 Black-Oriented EdTech

Miriam Hagan, Graduate Student
Investigating Food Insecurity in Black Dominated Communities in Baltimore City: A Critical Research Method

Wesley Hanson, Junior Faculty/ Lecturer/ Instructor
Local Marvels and a Rhetoric of Skepticism in Tacitus’ Annals

2:00 PM - 3:00 PM | FACULTY LOUNGE | SOCIAL SCIENCES

Elle Butler, Graduate Student
Developmental Implications of Firearm Victimization on Impoverished Communities

Lucombe Luveia, Graduate Student
Assessing the relationship between Financial Deepening and Economic Growth

Tess Starman, Graduate Student
Going to Church: Examining the trends of church attendance in light of Covid-19 on religious beliefs, practices, and affiliation among U.S. Christians.
SESSION VI

3:00 PM – 4:00 PM  |  2ND FLOOR CONFERENCE ROOM  |  BUSINESS

Karthik Balasubramanian, Junior Faculty / Lecturer / Instructor  
Inventory Pooling for Mobile Money Agents in the Developing World

Camille King, Undergraduate Student  
The Future of Black Capitalism: The Effect of Modern Media on Black Businesses During the COVID-19 Pandemic

3:00 PM - 4:00 PM  |  2ND FLOOR CONFERENCE ROOM  |  ENVIRONMENTAL SCIENCES & STUDIES

Jessica Moulite, Graduate Student  
More Than Miami Heat: How Chronic Heat Is Impacting Miami’s Little Haiti Neighborhood

3:00 PM - 4:00 PM  |  FACULTY LOUNGE  |  SOCIAL SCIENCES

Sarah Breyfogle, Graduate Student  
Money, Power, Fanfic: Fan Authors on Patreon

Evin Guilford, Undergraduate Student  
You are What You See: African American Sitcoms and Their Impact on Generation Z and Millennials’ Perception of African American Self and Group Identity

Ashley Sheehy, Professional Student  
The Relationship of Fall Prevention Service Delivery of African American/Black Older Adults; Race and Ethnicity

Jamal Uddin, Graduate Student  
Factors Influencing the Women for Birth Decision in Bangladesh: Applying Health Belief Model and Theory of Planned Behavior

SESSION VII

4:00 PM - 5:00 PM  |  2ND FLOOR CONFERENCE ROOM  |  TRANSLATIONAL & CLINICAL SCIENCES

Daphene Altema-johnson, Graduate Student  
A Content Analysis of Health Communication Received by Black Males Regarding Cardiovascular Risk

Langston Locke, Undergraduate Student  
Expediting the Commissioning Process of a Linear Accelerator

Oluwanifemi Owoseni, Graduate Student  
Prostate-Specific Antigen Activated Prodrug as Targeted Therapy for Prostate Cancer.

Trinity Pisarsky, Undergraduate Student  
Colon Cancer in Older Adults
## APRIL 28, 2023

### SESSION I

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<th>Topics</th>
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<td>9:00 AM - 10:00 AM</td>
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<td>TRANSLATIONAL &amp; CLINICAL SCIENCES</td>
<td><strong>Dorienne Taylor-Bishop</strong>, Junior Faculty / Lecturer / Instructor</td>
<td>Factors associated with dental care use, unmet dental care need, and barriers to unmet need among United States women: results from NHANES, 2017 to 2020</td>
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<td><strong>Jessica Alden</strong>, Senior Faculty</td>
<td>Applying Knowledge Translation to Prepare Occupational Therapists To Work With Women With UI</td>
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<td>3RD FLOOR CONFERENCE ROOM</td>
<td>PHYSICAL SCIENCES &amp; ENGINEERING</td>
<td><strong>Preethi Chandran</strong>, Senior Faculty</td>
<td>Hierarchical arrangement of proteins in spider silk filaments allows development of large toughness and resistance characteristics</td>
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<td><strong>Mirza Galib</strong>, Junior Faculty / Lecturer / Instructor</td>
<td>Developing machine learning models for molecular dynamics simulations of atmospheric aerosols</td>
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<td><strong>Quentin Taylor</strong>, Undergraduate Student</td>
<td>Residual Resistivity Ratio of Niobium and Copper</td>
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<td>9:00 AM - 10:00 AM</td>
<td>FACULTY LOUNGE</td>
<td>SOCIAL SCIENCES</td>
<td><strong>Yasmine Grier</strong>, Undergraduate Student</td>
<td>Things I Imagined: “Paradise” and the Political</td>
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<td><strong>Digna Mosquera</strong>, Graduate Student</td>
<td>Race And Gender Inequalities In The Colombian Labor Market</td>
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<td><strong>Bailey Nelson</strong>, Undergraduate Student</td>
<td>The Economic Impacts of Hurricane Katrina</td>
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<td><strong>Evan Quaintance</strong>, Undergraduate Student</td>
<td>A look into Black Political Leadership in the 20th and 21st Century</td>
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SESSION II

10:00 AM -11:00 AM | 2ND FLOOR CONFERENCE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Aadia Moseley-Mccloud, Undergraduate Student
Analysis of the Effect of Mycorrhizae on Growth and Primary Sex Ratios of Sorrel (Rumex acetosa)

Sharleine Cotin, Graduate Student
Pathophysiology of Type-2 Diabetes of African Americans in Washington DC: An Epidemiological and Transcriptional Approach

Jodi-ann Richards, Undergraduate Student
Analysis of the Optimal Quiet Eye Duration for a Motor Learning Process Interdisciplinary Research

India Washington, Undergraduate Student
Interplay of Periodontal Changes and Pancreatic Malignancies

10:00 AM - 11:00 AM | 3RD FLOOR CONFERENCE ROOM | PHYSICAL SCIENCES & ENGINEERING

Ikeoluwa Apata, Graduate Student
Tuning the synthesis of PS and PMMA grafted BaTiO3 nanoparticles with focus on control of molecular weight, dispersity, and graft density for dielectric applications.

Angelica Stewart, Undergraduate Student
The Use of Python Programming to Calibrate and Post Process Atmospheric Sensor Data

Weldejeworgis Gebrehiwot, Staff
Characterization of the Chemical Interaction of Laponite Filler with Model Latex

Dayna Jackson, Undergraduate Student
Visualizing Flow Effects on a Quadcopter using Wind Tunnel Testing

10:00 AM - 11:00 AM | FACULTY LOUNGE | SOCIAL SCIENCES

Amen Haileselassie, Undergraduate Student
National Unity and Ethnic Diversity in Ethiopian Secondary Educational Curricula: A Study on Political Ideology in Education.

Elan Jones, Undergraduate Student
African American Reparation Policy Proposals

Yusra Alkasasbeh, Graduate Student
Perceptions of circumstances vs. effort in Jordan.

10:00 AM - 11:00 AM | FACULTY LOUNGE | HUMANITIES

Justina Blanco, Undergraduate Student
Contracting in the Void: Finding Black Women Within Mills’ Corrective Justice Theory
### SESSION III

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<td>Tonyiah Edney, Undergraduate Student</td>
<td>The Overturn of Roe v. Wade: A Woman’s Body is Not Her Own</td>
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<td>Makayla Jones, Undergraduate Student</td>
<td>Return Migration and Political Identification in Atlanta Metropolitan Area</td>
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<td>Kaylin Watson, Undergraduate Student</td>
<td>The Fight for Equality and Justice within New York City’s Bail-Bond System</td>
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<td>Barbara Addo, Professional Student</td>
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<td>A Scoping Review: Defining The Effects Of Sensory-Based Intervention And Activity-Based Intervention For Older Adults With Dementia</td>
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<td>FACULTY LOUNGE</td>
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<td>Alexiz Jenkins, Undergraduate Student</td>
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<td>“Dazed and Confused”: How different and differing framing of COVID by government and popular media contributed to public confusion and noncompliance</td>
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<td>Tiffanee Moore, Undergraduate Student</td>
<td>Rethinking the Classics: Black Women Classical Scholars, Then and Now</td>
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<td>Jayda Pickett, Undergraduate Student</td>
<td>Black Women and Literature: From Complexion to Complexity</td>
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<td>3RD FLOOR CONFERENCE ROOM</td>
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<td>Jayson Johnson, Undergraduate Student</td>
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<td>Hypersonic Heat Transfer Correlations</td>
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<td>Anirban Goswami, Graduate Student</td>
<td>Investigation of critical behavior of layered ferromagnetic Cr2Te3</td>
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<td>Kennedi White, Undergraduate Student</td>
<td>Variation of the Moon’s Solar-Induced Hydrogen Cycle during a Solar Storm</td>
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SESSION V

1:00 PM - 2:00 PM | 3RD FLOOR CONFERENCE ROOM | PHYSICAL SCIENCES & ENGINEERING

Ayron Fears, Undergraduate Student
Implementation of a Floating Point Arithmetic System

Jalen Garner, Undergraduate Student
Theoretical modeling of magnetic phase evolution in bulk n[Bi2Te3] x MnBi2Te4

Cameron Lewis, Graduate Student
Implementing a Graph Neural Network-based Bundle Adjustment on a FPGA-based SLAM Autonomous Platform

Eric Seabron, Junior Faculty / Lecturer / Instructor
Structure Driven Light-Matter Interactions in Photonic Materials

SESSION IV

2:00 PM - 3:00 PM | 3RD FLOOR CONFERENCE ROOM | PHYSICAL SCIENCES & ENGINEERING

Marvin Atwell, Undergraduate Student
Implementation of BANG-BANG and PID control algorithms in autonomous vehicles

Sai krishna Narayanan, Graduate Student
Thickness-dependent properties of color centers in hexagonal boron nitride: a first principles study

Nathan Roseboro, Undergraduate Student
Design and Optimization of a Standoff Raman Optical System for Lunar Exploration

Cyrille armel Sayou ngomsi, Graduate Student
Different passivation schemes to control properties of near-surface silicon vacancy in silicon carbide
SESSION V

3:00 PM - 4:00 PM | 3RD FLOOR CONFERENCE ROOM | PHYSICAL SCIENCES & ENGINEERING

Laray M. Hare, Graduate Student
*In-situ Standoff Raman Spectroscopy Using a Cube Rover and a Long-Distance Microscope for Lunar Science and Exploration*

Ashley Simmons, Undergraduate Student
*Design & Synthesis of Dithiocarbamate Ester Derivatives of the Tetrahydroisoquinoline Sub-Structure of Emeline for Studies in Prostate Cancer Cell Lines*

Yaman Siwakoti, Undergraduate Student
*Investigation of Quantum Effects, Vibrational Modes, Absorption Bands of Various Quantum Dots through Experimental and Computational Methods for Sensing Applications*

Tao Wei, Senior Faculty
*Atomistic Simulations of Crosslinked Polyamide Membrane for Water Desalination*
*Interdisciplinary Research Building Third Floor Conference Room*

SESSION VI

4:00 PM - 5:00 PM | 2ND FLOOR CONFERENCE ROOM | ENVIRONMENTAL SCIENCES & STUDIES

Charles Verharen, Senior Faculty
*An Immodest Proposal: A Consortium of Ethical, Sustainable Ecovillages to Reduce Global Poverty*

4:00 PM – 5:00 PM | 2ND FLOOR CONFERENCE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Pranab Sarker, Post Doc/Resident/Fellow/Research Associate
*Understanding hydration and antibiofouling of TMAO-polymer surfaces from atomistic modeling*
POSTER EXHIBITION

Ghadeer Abdullah, Graduate Student, Biological & Biomedical Sciences  
*Auranofin Inhibits Ebola Virus Replication by Targeting NP-VP35 Interaction*

Riad Abdulmoniem, Professional Student, Biological & Biomedical Sciences  
*Effect of high salt diet on memory and behavior in Apolipoprotein E4 expressing mice*

Ali Abdus-shakoor, Undergraduate Student, Physical Sciences & Engineering  
*Bracing for Impact: Modeling Hypothetical Detonations with NukeMap and Python*

Jean claude Abeck, Graduate Student, Social Sciences  
*Mercenaries, Conflicts, and the Military-Industrial Complex in Sub-Saharan Africa*

Sameer Acharya, Undergraduate Student, Physical Sciences & Engineering  
*Unlocking the Road Ahead: Predicting Future Car Locations with Rank Learning*

Simeon Adesina, Senior Faculty, Translational & Clinical Sciences  
*Development of PSMA-Targeted Drug Loaded Nanoparticles for Combination Therapy of Advanced Prostate Cancer*

Gaurav Adhikari, Undergraduate Student, Physical Sciences & Engineering  
*Evaluating Impact of Emoticons and Pre-processing on Sentiment Classification of Translated African Tweets*

Baiyee-ndang Agbor-baiyee, Staff, Biological & Biomedical Sciences  
*Pathway-Focused Analysis Reveals Key Genes Associated with Renal Fibrosis in an Accelerated Mouse Model of Diabetic Kidney Disease*

Asrar Ahmad, Post Doc/Resident/Fellow/Research Associate, Biological & Biomedical Sciences  
*Ebola virus modification to PP1-targeting compound enhances PP1 binding to NP and facilitate capsid formation*

Muhammed Ahmed, Professional Student, Biological & Biomedical Sciences  
*Initial Assessment of the External Auditory Morphology in Semi-aquatic Pinnipeds*

Alejandro Alexander, Undergraduate Student, Biological & Biomedical Sciences  
*Chip Assay Indicates: PP1 is Able to Bind to HIV-1 LTR*

Alejandro Alexander, Undergraduate Student, Environmental Sciences & Studies  
*Oxidation of Iodide by Cupriavidus necator*

Fatemah Alhakami, Graduate Student, Biological & Biomedical Sciences  
*Ferroportin Q248H Mutation Leads to a Moderate Iron Load in Slc40a1Q248H/Q248H Mice*

Awn Alqahtani, Graduate Student, Physical Sciences & Engineering  
*quantum invariant theory and twisting of quantum groups*

Chloe Alston, Undergraduate Student, Biological & Biomedical Sciences  
*Phages Gamgam, Isolation and Characterization from a soil sample collected from the Howard University campus*
Tatiana Ammosova, Junior Faculty/ Lecturer/ Instructor, Biological & Biomedical Sciences
The host protein phosphatase 1 is recruited by Ebola virus nucleoprotein to activate viral transcription factor VP30

Nadrat Amos, Undergraduate Student, Ethics, Law & Religion
Alternatives to incarceration: Is restorative justice diversion more effective in deterring first time offenders from recidivism in Washington and California?

Tsion Andine, Professional Student, Translational & Clinical Sciences
Impact of Race and Insurance Type on Outcomes following Bariatric Surgery

Ahmari Anthony, Professional Student, Social Sciences
“What Can We Imagine”: Abolitionist Social Work Utilizing the Black Perspective

Kelechi Anusiem, Undergraduate Student, Biological & Biomedical Sciences
DNA Barcoding

Surakshya Aryal, Undergraduate Student, Physical Sciences & Engineering
Skin Tone Detection using K-means Clustering

Yusuf Ashktorab, Undergraduate Student, Biological & Biomedical Sciences
A Bioinformatic Analysis of an Unknown Ant Specimen Found in Washington D.C.

Iyanuoluwa Awomuse, Undergraduate Student, Social Sciences
Africa Under Western Eyes: Western Media’s Perception of African Culture and its Effects on their Identity Development

Tiffani Baker, Undergraduate Student, Biological & Biomedical Sciences
Ant DNA Barcoding

Jonathan Barnes, Graduate Student, Physical Sciences & Engineering
A.I. Modeling of Climate Change Change to Understand Human Health Impacts

Perpetue Bataille backer, Graduate Student, Translational & Clinical Sciences
Synthesis and Characterization of a Targeted Peptide Drug Conjugate for the Treatment of Glioblastoma

Ashleigh Bellamy, Professional Student, Biological & Biomedical Sciences
Falsies “An Esthetic Compromise to Infection Control”

Olabisi Bello, Undergraduate Student, Environmental Sciences & Studies
Initial and Secondary Growth Kinetics Analysis of Shewanella oneidensis MR-1 cultures in Complex and Minimal Media

Marcy Beutlich, Graduate Student, Social Sciences
The Effects Police Brutality in News Media on Health Outcomes: Exploring Black Identity and Rumination

Naina Bhatia-dey, Junior Faculty / Lecturer / Instructor, Biological & Biomedical Sciences
Chemosensory abilities in neurodevelopmental disorders: genetic and epigenetic regulatory pathways during early development, aging, health and disease

Mashayla Billups, Undergraduate Student, Social Sciences
A Content Analysis of Black Newspapers and Community Development Before and After the 1898 Wilmington Massacre

Alexander Boakye, Undergraduate Student, Biological & Biomedical Sciences
Viscoelastic response of commercial mucin to HIV pseudotyped virus
Cade Boggan, Undergraduate Student, Physical Sciences & Engineering
Implementation of the Near Field Refractor Problem Solver Algorithm

Chavonne Bowen, Graduate Student, Physical Sciences & Engineering
Jet Flow- Shockwave Interactions in a Hypersonic Flow using a Continuum Method

Autumn Bowers, Undergraduate Student, Biological & Biomedical Sciences
DNA Barcoding Ants to classify species and identify changes in Ant populations across Washington DC

Chauncey Bridges, Professional Student, Education & Outreach
The Effects of COVID-19 on Player Performance and Game Availability in the National Football League

Bianca Briscoe, Graduate Student, Environmental Sciences & Studies
The Global Sustainable Strategies to Achieving Net Zero Carbon in Buildings

Janiya Brooks, Undergraduate Student, Biological & Biomedical Sciences
Regional and Temporal Analysis of Microglia Activation in a Model of Pediatric-HIV Infection

Kamryn Brown, Undergraduate Student, Biological & Biomedical Sciences
DNA Ant Barcoding

Donovan Bryant, Graduate Student, Biological & Biomedical Sciences
Profiling Glycans of the IgG1 Monoclonal antibody using Lectins Authors: Donovan Bryant, TzuLan Chang, Ayobami Ogundiran, Jason Lam, Preethi Chandran.

Saniyah Callender, Undergraduate Student, Biological & Biomedical Sciences
COMBATING OBESITY IN AFRICAN AMERICAN WOMEN USING SPORTS

Aleyah Calomese, Undergraduate Student, Biological & Biomedical Sciences
Ant Atlas: T. Immigras & Climate Change

Juan’nique Campbell, Undergraduate Student, Biological & Biomedical Sciences
The Impact of Malnutrition on Wound Healing Progression: Elderly Individuals

Gabriel Carter, Professional Student, Biological & Biomedical Sciences
Effect of high salt diet on Renal functions in Apolipoprotein E4 expressing mice

Candace Casimir, Undergraduate Student, Social Sciences
Perceptions of Cultural Identity and Gender Norm Conformity in Diverse School Contexts

Tzu-lan Chang, Post Doc/Resident/Fellow/Research Associate, Biological & Biomedical Sciences
pH, Serum, and Calcium Influenced Viral-Aggregates vs. Dispersedly Similar Viruses with Complex N-Glycans on Their Envelop Proteins such as VSVg

Emma Charles, Undergraduate Student, Physical Sciences & Engineering
Propagation of Excitons and Spin waves in CrSBr

Alissa Charvonia, Graduate Student, Social Sciences
Balancing Trust and Research Fidelity: Ethical and Methodological Challenges and Recommendations for Conducting Community-Based Research with Socio-Politically Vulnerable Groups

Zaria Chatman, Undergraduate Student, Social Sciences
Melody Chepkoech, Graduate Student, Physical Sciences & Engineering
Microstructure and Fatigue Performance of Additively Manufactured 316L Stainless Steel

Amaria Clark, Undergraduate Student, Social Sciences
Age, State, and Trait Anxiety in an Adult Black Community

Armani Clay, Undergraduate Student, Biological & Biomedical Sciences
Sickle Cell Anemia Disease in African Americans: An update

Jordan Clemetson, Undergraduate Student, Physical Sciences & Engineering
Machine learning approach to process and analyze large spectral data sets of lunar analog minerals

Kelsey Coates, Undergraduate Student, Humanities
Food or Foe? Western Perspectives Toward Entomophagy

Marshae Cooksey-webster, Undergraduate Student, Social Sciences
Mental Health Services Utilization Rates among African American Adolescents

Jabari Courtney, Undergraduate Student, Social Sciences
Born Naked and the Rest is Truly Drag: Impression Management and the Intersection of Identity and Performance on Social Media

Temitope Creppy, Undergraduate Student, Education & Outreach
Lead Exposure Effects on Chicago Children

Ciana Cummings, Undergraduate Student, Translational & Clinical Sciences
The effect of exercise on the immunological function of erythrocytes in humans

Frederica Cunningham, Professional Student, Social Sciences
“Needs Assessment for early infiltration, exposure and inclusion of diversity within the occupational therapy profession”

George Daniel, Graduate Student, Biological & Biomedical Sciences
Incarceration as a Risk Factor for Impairment in Cognitive Functioning

Shania Davidson, Undergraduate Student, Biological & Biomedical Sciences
Cadherin-11 Antagonism Effect on Cardiac Fibrosis in Chronic Kidney Disease

Makenna Davis, Undergraduate Student, Biological & Biomedical Sciences
Functional characterization of a small RNA in Staphylococcus aureus that may regulate drug resistance genes

Darnell Davis, Graduate Student, Biological & Biomedical Sciences
A New Approach for Active Coronavirus Infection Identification by Targeting the Negative RNA Strand- A Replacement for the Current Positive RNA-based qPCR Detection Method

Terri Davis, Graduate Student, Social Sciences
Voicing Concerns: Counter Stories of African Americans Lived Experiences of Eminent Domain and the Resulting Impact on Generational Wealth

Nyree Dawson, Junior Faculty / Lecturer / Instructor, Education & Outreach
An Interprofessional Approach to Oral Healthcare During Pregnancy

Alyse Dees, Undergraduate Student, Physical Sciences & Engineering
Toxics and Extreme Weather Effects for Different Insulation Materials
Tamyra Dickens, Undergraduate Student, Education & Outreach
The Impact of Social Competence on Social Anxiety and Fear of Negative Evaluation among Third Grade Children

Trista Dolcy, Undergraduate Student, Biological & Biomedical Sciences
Is the Keto Diet an Appropriate Medical Nutrition Therapy for Pregnant Women with Gestational Diabetes?

Elan Donnellan, Graduate Student, Translational & Clinical Sciences
Comparing Response in Autonomic Activity and the Perceived Stress Scale across Gender

Lakeiya Dulcio, Graduate Student, Social Sciences
The Impact of Gendered Racism and Racist Sexism on the Identity Development and Mental Health of Black Women

Chidubem Egboluche, Graduate Student, Social Sciences
Identifying The Barriers To The Implementation Of The Six Core Element Of Healthcare Transition In SCD Transition Program: A Conceptual Framework

Chidi Eke, Post Doc/Resident/Fellow/Research Associate, Biological & Biomedical Sciences
Success Rate Between Nu-smile Crowns and Stainless-steel Crowns for Primary Anterior Teeth

Elizabeth Ekpe, Professional Student, Biological & Biomedical Sciences
The perceived risk of lifestyle choices on cancer development among obese adults in the United States

Oumsalama Elhelu, Graduate Student, Biological & Biomedical Sciences
Involvement of stress in the S. mansoni and Biomphalaria glabrata relationship and the effect of stress -inhibitor drugs on the host-pathogen interaction

Sumaya Elkashif, Undergraduate Student, Humanities
The Arabization of Africa and Its Double Destruction of the African Identity: SUDAN

Kaleya Ervin, Undergraduate Student, Biological & Biomedical Sciences
DNA Ant Barcoding

Felix Eshun, Undergraduate Student, Physical Sciences & Engineering
Evaluating the Robustness of Open-Source Face Verification Models

Dante Ewell, Professional Student, Translational & Clinical Sciences
Resistin: A novel signaling molecule in the development of inflammation, insulin resistance, and Type 2 Diabetes Mellitus

Raven Flowers, Undergraduate Student, Biological & Biomedical Sciences
Bioinformatic Approaches to African Ancestry, the Development of Sickle Cell Disease and the Advancement of Precision Medicine

Morgan Ford, Undergraduate Student, Biological & Biomedical Sciences
Refining a computational Cellular Potts Model model of the posterior Lateral Line primordium (PLLp) in zebrafish by exploring the effects of changes in parameters

Reid Funderburk, Undergraduate Student, Biological & Biomedical Sciences
The effect background music in video games plays on attention span

Hope Garnes, Undergraduate Student, Social Sciences
Telling Our Stories
Rajae Gayle, Graduate Student, Biological & Biomedical Sciences  
Protein intake and conformity with the Dietary Reference Intakes in the United States: Analysis of the National Health and Nutrition Examination Survey, 2017–2020

Sama Ghadiri gargari, Graduate Student, Physical Sciences & Engineering  
Tribo-electrification Behavior of Milled Yellow Pea Powders

Hamid Ghaffari nazarlou, Graduate Student, Environmental Sciences & Studies  
Effects of operating parameters on membrane fouling

Naomi Godwin, Undergraduate Student, Biological & Biomedical Sciences  
Sickle Cell Anemia in the Black Diaspora

Jordan Graves, Graduate Student, Biological & Biomedical Sciences  
The Effects of Stress on Reproductive Biomechanics

Jordan Gray, Undergraduate Student, Physical Sciences & Engineering  
Optimized Preparation of Polymer-Grafted Barium Titanate Nanocomposites using Atomic Transfer Radical Polymerization

Victoria Greer, Undergraduate Student, Social Sciences  
THE BLACK RURAL POPULATION: A FORGOTTEN PEOPLE FROM AMERICAN CONSCIOUSNESS

Trevon Griffin, Undergraduate Student, Biological & Biomedical Sciences  
A Comprehensive Analysis of the Nutritional Status of Vitamin D and Zinc Levels Before and During COVID-19 in Children And Young Adults

Shaniya Hampton, Undergraduate Student, Biological & Biomedical Sciences  
Antcestry

Julianna Harden, Undergraduate Student, Biological & Biomedical Sciences  
Identification of Yellow Dock herbal supplement contents using DNA barcoding technology

Jennifer Hayes, Graduate Student, Translational & Clinical Sciences  
Use of Quantum Computing to Assess the Effect of SARS-CoV-2 Mutations on Remdesivir

Ashley Haynes, Undergraduate Student, Biological & Biomedical Sciences  
An analysis of the various ant species living on Howard University’s campus

Pierce Hodges, Undergraduate Student, Biological & Biomedical Sciences  
Evaluating Perceptions of the Effectiveness of a Community Advisory Group for Stroke Education & Prevention Initiatives in an Underserved Community

Latoya Hogg, Graduate Student, Social Sciences  
Factors Influencing the Impostor Phenomenon in Black Social Work Ph.D. Students Attending Historically Black Colleges and Universities.

Papa Hoyeck, Graduate Student, Biological & Biomedical Sciences  
The conditional deletion of NIPPI1 in the liver drives an imbalance in Iron homeostasis

Robert Hudson, Undergraduate Student, Social Sciences  
Hidden Agenda: Analyzing News Framing On Police Brutality and Race in 2020
Ayotimofe Idowu, Undergraduate Student, Biological & Biomedical Sciences
MiaA is necessary for GroS and GroL expression in E. coli upon heat shock

Makenzie Jackson, Undergraduate Student, Biological & Biomedical Sciences
The effects Environmental Disturbances have on the Biodiversity of Ants at Howard University

Nia James, Professional Student, Biological & Biomedical Sciences
Elucidating the role of TCR expression in Mycosis Fungoides: A Preliminary Analysis of Skin of Color biospecimens from Howard University Department of Dermatology

Kennedy James, Undergraduate Student, Education & Outreach
Exploring Social Studies Curriculum Through a Black Lens

Chania Johnson, Undergraduate Student, Biological & Biomedical Sciences
Cherry Blossom Road: The Ant’s Perspective

Briyanna Johnson, Graduate Student, Education & Outreach
Complexities of Identity: A Qualitative Study of HBCU STEM Doctoral Students Pursuing a Career in Academia

Jheannelle Johnson, Undergraduate Student, Biological & Biomedical Sciences
A Conceptual Framework of Type II Diabetes Mellitus and Alzheimer’s Disease in African Americans

Ashleigh Johnson, Undergraduate Student, Biological & Biomedical Sciences
Alkoy

Mahogany Johnson, Undergraduate Student, Social Sciences
Development of Culturally-Relevant Scenarios to Examine Gender-Based Attitudes of Black College Students toward Substance Users

Niomi Jones, Undergraduate Student, Biological & Biomedical Sciences
Exploring Ant Diversity at Howard University: DNA Barcoding Investigation Ant Species

Chelsey Jones, Undergraduate Student, Biological & Biomedical Sciences
Targeting the JAK/STAT signaling pathway in Hidradenitis Suppurativa: From Bench to Clinic

Khloe Kelley, Undergraduate Student, Biological & Biomedical Sciences
Differentially Expressed Viral and Interferon-Regulated Genes in Multiple Sclerosis Patients

Latanya Khissy beyniouah, Undergraduate Student, Biological & Biomedical Sciences
DNA Barcoding Abstract

Christine Kindler, Graduate Student, Social Sciences
Peace Conversation Circles: Promoting Agonistic Historical Dialogue in Post-Genocide Rwanda

Ayanfeoluwa Kolawole, Undergraduate Student, Biological & Biomedical Sciences
Investigation of the role of Holliday Junction Resolvases in the Repair of Retrotransposon Integration

Aminata Kone, Undergraduate Student, Social Sciences
College Students Perceptions of Culture, Gender and Coping

Darian Lasenby, Graduate Student, Social Sciences
The Academic Implications of Childhood Trauma Among Students of Afro-Descent: A Subjective Analysis
Andrea Magallanes, Graduate Student, Translational & Clinical Sciences
An occupational therapy sensory based intervention approach in a trauma informed care model with victims of homelessness and trauma

Jaden Magee, Undergraduate Student, Biological & Biomedical Sciences
Battling Body Image with Nutrition

Vidhyanand Mahase, Graduate Student, Biological & Biomedical Sciences
Genetic variations affecting ACE2 protein stability and binding affinity in minority populations.

Ian Mahone, Professional Student, Biological & Biomedical Sciences
Re-evaluation of Phocidae Auditory Terminology, Emphasizing Osteology of the Ossicular Chain and Middle Ear

Courtney Mahugu, Undergraduate Student, Biological & Biomedical Sciences
DNA Ant Barcoding

Amber Malone, Graduate Student, Social Sciences
Preparing Your Seat at the Table: An Intricate Examination of the Professional Ambitions of Post Professional Minority Occupational Therapy Students and Practitioners

Niaylah Mascall, Undergraduate Student, Biological & Biomedical Sciences
The Reproductive Morphology of the Armored Sea Robin

Daeja Mathis, Undergraduate Student, Biological & Biomedical Sciences
Effect of Plant based diets on hypertension in Black men

Talayah Mccoy, Undergraduate Student, Biological & Biomedical Sciences
DNA Barcoding of Ants from different species in the D.C Area.

Sydney Mcpherson, Undergraduate Student, Social Sciences
Black Developmental Continuum: A New Theory of Racial Identity

Janiah Mcrae, Undergraduate Student, Biological & Biomedical Sciences
Identifying and Characterizing Bacteriophages: Deenasa and Devonte

Elaine Meredith, Staff, Social Sciences
Increasing Access to Safe Active Transportation in a Small Mid-Atlantic Minority City: An Evaluation Plan for the Petersburg Healthy Options Partnerships’ Mural Project

Bryan Mildort, Professional Student, Translational & Clinical Sciences
Automated Summarization of Clinical Notes from Electronic Health Records with Natural Language Processing

Alexandra Minnard, Undergraduate Student, Physical Sciences & Engineering
Dispersion Effects of Laponite Filler on the Hygroscopic Properties of Nanocomposite Latex

Tanmoy Mondal, Post Doc/Resident/Fellow/Research Associate, Biological & Biomedical Sciences
TGF-β1 Signaling Pathways in Progression of Non-Alcoholic Fatty Liver Disease in African Americans

T’yanna Montague, Graduate Student, Biological & Biomedical Sciences
Comparison of Renal Function Estimators and their Impact on HIV Pharmacotherapy Eligibility

T’yanna Montague, Professional Student, Translational & Clinical Sciences
Comparison of Renal Function Estimators and Their Impact on HIV Pharmacotherapy Eligibility
Alexa Moore, Undergraduate Student, Translational & Clinical Sciences
*Pediatric Eating Behavior and Anxiety Following a Mentally Fatiguing Task: Interactions with Mood Symptoms*

Ritha Mutoni, Staff, Biological & Biomedical Sciences
*Interaction of Catechol-O-Methyltransferase (COMT) Val158Met with neuropsychiatric and opioid use disorders in a cohort of African Americans*

Miranda Newheart, Undergraduate Student, Biological & Biomedical Sciences
*Role of PFKFB3 in Type 2 Diabetes Mellitus*

Theophile Ngangmeni, Undergraduate Student, Environmental Sciences & Studies
*Chemicals & Indoor Air Quality*

Heather Noriega, Graduate Student, Translational & Clinical Sciences
*Combination of AlphaFold2 and Long-timescale Molecular Dynamics Simulations to Understand Viral Packaging Processes*

Sofia Ntirampeba, Undergraduate Student, Biological & Biomedical Sciences
*Folic Acid Supplementation Use Across Different Racial/Ethnic Groups*

Marie chantal Nyirahategekimana, Undergraduate Student, Physical Sciences & Engineering
*Evaluation of the Effect of pH on Porcine Gastric Mucin III via Dynamic Light Scattering*

Omotola Ogundipe, Graduate Student, Translational & Clinical Sciences
*Development of Targeted Polymer-Drug Conjugates for Ovarian Cancer Chemotherapy*

Ayobami Ogundiran, Graduate Student, Biological & Biomedical Sciences
*Shear-reversible clusters of HIV-1 in solution: stabilized by antibodies, dispersed by mucin*

Chidubem Okeke, Post Doc/Resident/Fellow/Research Associate, Translational & Clinical Sciences
*Adverse childhood experiences (ACEs) and associated health outcomes among adults with skin cancer*

Nneka Okoro, Undergraduate Student, Education & Outreach

Priscilla Okunji, Senior Faculty, Translational & Clinical Sciences
*Academic EHR (Simchart) Training and Usability: Students’ Perspective*

Toluwanimi Oladapo, Undergraduate Student, Biological & Biomedical Sciences
*Isolation and characterization of subcluster B1 bacteriophages Simielle, DelRivs, Nyala, and Lumine.*

Nia Ollivierre, Undergraduate Student, Biological & Biomedical Sciences
*Nutritional Status and Its Effect on Infection Rates in the Lifecycle*

Kehinde Omisore, Undergraduate Student, Biological & Biomedical Sciences
*Neurogenetic and NeuroPsychiatric Assessment of Co-Morbid HIV and Substance Use Disorder Patients*

Pilar Oneal, Graduate Student, Physical Sciences & Engineering
*Optimization and Characterization of condensed DNA Nanocontainers having protein cargo for gene editing*

Ololade Oriowo, Undergraduate Student, Physical Sciences & Engineering
*Investigating Plant Protein Separation Behavior in Mixtures of Dietary Fibers Utilizing the Tribo-Electrostatic Technique*
Oluwanifemi Owoseni, Graduate Student, Translational & Clinical Sciences
Synthesis and characterization of targeted SN-38 conjugate for cancer therapy.

Oluwaseyi Oyebola, Undergraduate Student, Biological & Biomedical Sciences
Key genetic networks of NAFLD in T2DM African Americans

Cristin Payne, Undergraduate Student, Biological & Biomedical Sciences
Smoking and Vitamin C Intake: Effects on Health Status of Older Adults

Jose Perez chavez, Graduate Student, Physical Sciences & Engineering
Exploring Exoplanet Diversity through Network Analysis

Fadiya Perry, Undergraduate Student, Translational & Clinical Sciences
Reshaping Nutrition Care for Transgender and Gender Diverse Individuals (TGGD)

Jada Pherribo, Undergraduate Student, Biological & Biomedical Sciences
DNA Barcoding US Ants

Morgan Phillips, Undergraduate Student, Social Sciences
Cinematherapy: a Study on the Framework of Human Connection

Aniruddha Pokhrel, Undergraduate Student, Physical Sciences & Engineering
Factors Impacting COVID-19 Mortality and Spread: Combining Clustering and Supervised Modeling

Kiya Powell, Undergraduate Student, Translational & Clinical Sciences
Child Nutritional Status in Ethiopia: Challenges and Interventions

Sahvanah Prescott, Undergraduate Student, Social Sciences
Political conservatism and moral model of addiction: Pre-registered reanalysis

Jasmine Prime, Undergraduate Student, Education & Outreach
A Look at the Effects of Mentorship on Black Undergraduate STEM Students

Howard Prioleau, Undergraduate Student, Physical Sciences & Engineering
Feature Importance Analysis for Mini Mental Status Score Prediction in Alzheimer’s Disease

Rhyon Qawwee, Undergraduate Student, Biological & Biomedical Sciences
Ecological Correlates with Jet propulsion in Frogfishes

Terran Quattlebaum, Graduate Student, Creative Arts & Design
African American Multigenerational Housing over the lifespan

Catherine Quinlan, Senior Faculty, Education & Outreach
Explorations of Spanish Moss by Elementary-Aged Black Homeschoolers From The DMV

Yessenaia Reed, Undergraduate Student, Biological & Biomedical Sciences
Are People with Dark Colored Skin More Prone to Skin Cancers

Ashley Riley, Graduate Student, Social Sciences
Belonging in Science: Exploring the Experiences of Notable Black Scientists in S.T.E.M.
Serenity Robinson, Undergraduate Student, Environmental Sciences & Studies
*Poverty vs Obesity*

Jamelia Robinson, Undergraduate Student, Social Sciences
*Mass Incarceration and the Theory of Punishment*

Deon Rosell, Professional Student, Biological & Biomedical Sciences
*Detailing the basicranial region and hearing apparatus anatomy of the Hawaiian Monk Seal (Neomonachus schauinslandi)*

Joseph Sankah, Undergraduate Student, Physical Sciences & Engineering
*Addressing Datagaps in Ear Biometrics Research: Diverse Ear Dataset*

Hrishav Sapkota, Undergraduate Student, Physical Sciences & Engineering
*Zero-Shot Classification Reveals Potential Positive Sentiment Bias In African Languages Translations*

Sydney Sauls, Undergraduate Student, Environmental Sciences & Studies
*Data Pollution and Savage Algorithms*

Olivia Sconyers, Undergraduate Student, Biological & Biomedical Sciences
*Identification of protein-protein interactions critical for virulence in S. aureus*

Ujjawal Shah, Undergraduate Student, Biological & Biomedical Sciences
*Experimenting with Multimodal AutoML: Detection and Evaluation of Alzheimer’s Disease*

Sydney Smith, Undergraduate Student, Biological & Biomedical Sciences
*Discovering the Biodiversity of Ants on Howard University’s Campus*

Tiara Smith, Undergraduate Student, Social Sciences
*The Impact of Race-Related Stressors on the Psychological Well-Being of African American Women*

Asia Smith, Graduate Student, Biological & Biomedical Sciences
*Free retinol serum analysis in pediatric patients with short bowel syndrome and intestinal failure.*

Nailah Smith, Graduate Student, Education & Outreach
*Dis-“Cypher”-ing Cannabis: How Cannabis Affects Communication and Cognition*

Lauryn Smith, Graduate Student, Environmental Sciences & Studies
*Ozone Recovery*

Jasmine Smith, Undergraduate Student, Social Sciences
*The Influence of Post World War II Media on American Social Structure and the Social Positions of American Women*

Malika Smoot, Graduate Student, Social Sciences
*Examining accommodations policy and addressing barriers to access in post-secondary institutions*

Adebiyi Sobitan, Post Doc/Resident/Fellow/Research Associate, Biological & Biomedical Sciences
*Leveraging computational mutagenesis to study gene expression in transgenic fruit flies*

Mykaiya Sumling, Undergraduate Student, Biological & Biomedical Sciences
*Using Exosomal MicroRNA Signatures to Identify Early Stages of Diabetic Kidney Disease in African American Adults*
Dougziana Thomas-chan, Undergraduate Student, Education & Outreach
Cultivating Courage in the Classroom

Saharsha Tiwari, Undergraduate Student, Physical Sciences & Engineering
Fast-Tracking Your Geospatial Queries with RTree-based Point-in-Polygon and Nearest Neighbor Search

Moiya Toliver, Undergraduate Student, Social Sciences
Covid 19, Missed Milestones, Social Interactions, and Mental Health in Black Emerging Adults

Mauryah Turner, Undergraduate Student, Social Sciences
The Effects of Acts of Terrorism on Mental Health Within a College Campus

Dania Turner, Undergraduate Student, Biological & Biomedical Sciences
Investigation of the Oxidation of Iodide by Bacteria Genes AD-60 and Sequencing of Significant Mutants

Llarance Turner, Graduate Student, Biological & Biomedical Sciences
A Whole-Food Plant-Based approach to Reducing METS in Black Men

Tochukwu Uyanne, Graduate Student, Physical Sciences & Engineering
Bioremediation of radioiodine contamination via Shewanella Oneidensis MR-1 biofilms – a proposed design and kinetic study.

Nathan Van-eck, Undergraduate Student, Environmental Sciences & Studies
Curtis Bay Air Quality Issues

Journee Vann, Undergraduate Student, Biological & Biomedical Sciences
Ant Collection Research Project

Naomi Vinod, Graduate Student, Social Sciences
The Impact Of Having Children In The Home On Psychological Distress Among US Cancer Survivors from 2017-2020: Results From The US Health Information National Trends Survey

Ashley Walker, Graduate Student, Physical Sciences & Engineering
Modeling Aerosol Microphysics in Ice Giant Atmospheres

Tongxin Wang, Senior Faculty, Biological & Biomedical Sciences
Biomimetic remineralization for tooth caries prevention

Jenna Warren, Graduate Student, Social Sciences
The Association of Ethnic Group Membership, Perceived Health, and Psychological Distress Among Female Cancer Survivors: Results from the 2017-2020 US Health Information National Trends Surveys

Robert Washington, Graduate Student, Physical Sciences & Engineering
Advancing The Detectability of Atmospheric Species in Terrestrial Atmospheres

Micah Watkins, Undergraduate Student, Biological & Biomedical Sciences
Developing a high-throughput selection assay for isoprenoid biosynthesis

Tamar Wells, Undergraduate Student, Creative Arts & Design
Enhancing Youth Low School Performance through human centered design.

Nia Weston, Undergraduate Student, Biological & Biomedical Sciences
The Impacts of Poverty on the Health of Older Adults and Effective Interventions to Alleviate the Effects
Izaac Wilkinson, Undergraduate Student, Biological & Biomedical Sciences
*The tardigrade’s ability to utilize cryptobiotic process of anhydrobiosis through tun formation causes no inhibition to the organisms’ speed*

Christobell Wilson, Graduate Student, Biological & Biomedical Sciences
*miRNAs, Extracellular Vesicles and Autoimmune diseases*

Helina Woldeamlak, Undergraduate Student, Biological & Biomedical Sciences
*The Impact of Adolescent Gut Microbes on Mental Health*

Guiqin Xie, Junior Faculty / Lecturer / Instructor, Biological & Biomedical Sciences
*Role of STING in immunotoxin-induced antitumor immunity in HNSCC*

Qiaobin Yao, Graduate Student, Biological & Biomedical Sciences
*Computational Saturation Mutagenesis of SARS-CoV-2 ORF3a protein*

Sarah Youssouf, Undergraduate Student, Biological & Biomedical Sciences
*Diagnosis, Management, and Prevention of IgE-Mediated Food Allergies in Children: A Systematic Review*

Sesen Zerhamenet, Graduate Student, Translational & Clinical Sciences
*The Effect Nutrition has on Frailty Syndrome in the Elderly Population*