

PROGRAM BOOK

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 - 3:00PM

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

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 - 2:00 PM

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

RESEARCH MONTH 2023 ACTIVITIES

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

RESEARCH MONTH 2023 ACTIVITIES

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

RESEARCH MONTH 2023 ACTIVITIES

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

RESEARCH MONTH 2023 ACTIVITIES

THURSDAY, APRIL 27

8:00 AM – 5:00 PM I ne Kesearch Symbosium	8:00 AM - 5:00 PM	The Research Symposium
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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

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

✓ The Office of Research, Pitch-HU Symposium on April 28.

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

Sincerely,

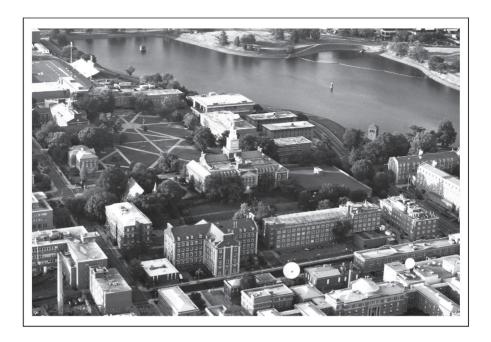
Bruce Jones, Ph.D.

Professor and Vice President for Research



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RESEARCH SYMPOSIUM



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

RESEARCH SYMPOSIUM

PRESENTATIONS April 27, 2023

9:00 AM - 12:00 PM **Poster Presentations Oral Presentations**

Biological & Biomedical

Sciences

Environmental Sciences

Humanities

Physical Sciences &

Engineering

Translational & Clinical

Sciences

Biological & Biomedical

Sciences

Business

Creative Arts & Design

Education & Outreach Ethics, Law & Religion

Humanities

Social Sciences

Translational & Clinical Sciences

12:00 - 1:00 PM Lunch

1:05 PM - 5:00 PM **Poster Presentations**

> Creative Arts & Design **Education & Outreach**

Ethics Law & Religion

Humanities

Social Sciences

Oral Presentations

Biological & Biomedical Sciences

Business

Environmental Sciences &

Studies

Humanities

Physical Sciences & Engineering

Social Sciences

Translational & Clinical Sciences

RESEARCH SYMPOSIUM

PRESENTATIONS April 28, 2023

9:00 AM – 12:00 PM	Poster Presentations	Oral Presentations	
	Physical Sciences & Engineering	Biological & Biomedical Sciences	
	Translational & Clinical Sciences	Environmental Sciences & Studies	
	Biological & Biomedical	Humanities	
	Sciences	Physical Sciences &	
	Environmental Sciences	Engineering	
		Social Sciences	
		Translational & Clinical Sciences	
12:00 - 1:00 PM	Lunch		
1:05 PM – 5:00 PM	Poster Presentations	Oral Presentations	
	Social Sciences	Biological & Biomedical Sciences	
	Environmental Sciences & Studies	Environmental Sciences & Studies	

Education & Outreach

Physical Sciences & Engineering

ORAL PRESENTATIONS

APRIL 27, 2023

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 Ouinlan, 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.

Iasmin 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

11:00 AM -12:00 PM | 2ND FLOOR CONFERENCE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Kidus Alemayehu, Undergraduate Student

The FENTANYL Crisis

Tashanti Bridgett, Graduate Student

Hypertension & Pregnancy: The Domino Effect in African American Women

Ryan Peters, Undergraduate Student

Lung Cancer and Health Disparities in African Americans

11:00 AM - 12:00 PM | 3RD FLOOR CONFERENCE ROOM | ETHICS LAW & RELIGION

Matthew Bruckner, Junior Faculty / Lecturer / Instructor

Bankruptcy in Black and White: The Effect of Race and Bankruptcy Code Exemptions on Wealth

Alexia Green, Professional Student

Are you my doctor? Exploring the legal implications of nurse practitioners, most prevalent in underserved communities, being treated as physicians.

Jy'mir Starks, Undergraduate Student

The Place of Speech in West African Coup D'états: A Consciencist Analysis of Transitional Governance and State Sentiment

11:00 AM - 12:00 PM | 3RD FLOOR CONFERENCE ROOM | HUMANITIES

Christopher Newman, Graduate Student

Savages and Sable Subjects: Anti-Black Racism and Demonization of New Orleans Voodoo in the Nineteenth Century

11:00 AM - 12:00 PM | FACULTY LOUNGE | SOCIAL SCIENCES

Hanadi Alabaad, Graduate Student

Does The Increase Of Female In The Labor Market Boost Economic Growth?

Deyonna Grant, Graduate Student

Estrangement: Are Black Students Progressively Disconnecting from the Classroom? And If So, Why?

Shaleeta Jones, Graduate Student

Speaking Volumes: Analysis of Figurative Language in Discourse Samples of Culturally and Linguistically Diverse Adolescents

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

Taijhalivah 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

Florencia 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

Lucombo Luveia, Graduate Student

Assessing the relatioship 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

Iamal 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

9:00 AM - 10:00 AM | 2ND FLOOR CONFERENCE ROOM | TRANSLATIONAL & CLINICAL SCIENCES

Dorienne Taylor-Bishop, Junior Faculty / Lecturer / Instructor

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

Jessica Alden, Senior Faculty

Applying Knowledge Translation to Prepare Occupational Therapists To Work With Women With UI

9:00 AM - 10:00 AM | 3RD FLOOR CONFERENCE ROOM | PHYSICAL SCIENCES & ENGINEERING

Preethi Chandran, Senior Faculty

Hierarchical arrangement of proteins in spider silk filaments allows development of large toughness and resistance characteristics

Mirza Galib, Junior Faculty / Lecturer / Instructor

Developing machine learning models for molecular dynamics simulations of atmospheric aerosols

Quentin Taylor, Undergraduate Student

Residual Resistivity Ratio of Niobium and Copper

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

Yasmine Grier, Undergraduate Student

Things I Imagined: "Paradise" and the Political

Digna Mosquera, Graduate Student

Race And Gender Inequalities In The Colombian Labor Market

Bailey Nelson, Undergraduate Student

The Economic Impacts of Hurricane Katrina

Evan Quaintance, Undergraduate Student

A look into Black Political Leadership in the 20th and 21st Century

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

10:00 AM - 11:00 AM | 2ND FLOOR CONFERENCE ROOM | SOCIAL SCIENCES

Tonyiah Edney, Undergraduate Student

The Overturn of Roe v. Wade: A Woman's Body is Not Her Own

Makayla Jones, Undergraduate Student

Return Migration and Political Identification in Atlanta Metropolitan Area

Kaylin Watson, Undergraduate Student

The Fight for Equality and Justice within New York City's Bail-Bond System

10:00 AM - 11:00 AM | 2ND FLOOR CONFERENCE ROOM | TRANSLATIONAL & CLINICAL SCIENCES

Barbara Addo, Professional Student

A Scoping Review: Defining The Effects Of Sensory-Based Intervention And Activity-Based Intervention For Older Adults With Dementia

SESSION IV

11:00 AM - 12:00 PM | FACULTY LOUNGE | HUMANITIES

Alexiz Jenkins, Undergraduate Student

"Dazed and Confused":How different and differing framing of COVID by government and popular media contributed to public confusion and noncompliance

Tiffanee Moore, Undergraduate Student

Rethinking the Classics: Black Women Classical Scholars, Then and Now

Jayda Pickett, Undergraduate Student

Black Women and Literature: From Complexion to Complexity

11:00 AM - 12:00 PM | 3RD FLOOR CONFERENCE ROOM | PHYSICAL SCIENCES & FNGINFFRING

Jayson Johnson, Undergraduate Student

Hypersonic Heat Transfer Correlations

Anirban Goswami, Graduate Student

Investigation of critical behavior of layered ferromagnetic Cr2Te3

Kennedi White, Undergraduate Student

Variation of the Moon's Solar-Induced Hydrogen Cycle during a Solar Storm

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 & FNGINFFRING

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 Sysytem for Lunar Exploration

Cyrille armel Sayou ngomsi, Graduate Student

Different passivation schemes to contrl 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 Emetine 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 Conjugte 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 A Critical Analysis of "The Racial Contract" by Charles W. Mills

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 NIPP1 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*

Briayanna 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

 ${\bf Ashleigh\ Johnson}, {\bf Undergraduate\ Student}, {\bf Biological\ \&\ Biomedical\ Sciences} \\ {\it Alkoy}$

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 Far

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

The Impact of Parenting Styles and Family Structure on Social Competence among African American Elementary School Children.

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 It's 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 Diverise Individuals (TGGD)

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

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 va 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 schauinsland)

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

Moiva 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 Redcucing 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

Biommimetic 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*





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