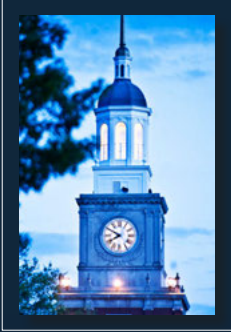


PROGRAM BOOK



Office of
Research



HOWARD UNIVERSITY
RESEARCH
SYMPOSIUM

APRIL 1-30, 2024

HOWARD UNIVERSITY

RESEARCH SYMPOSIUM

April 1-30, 2024

PROGRAM BOOK

HOWARD UNIVERSITY

March 28, 2024

Dear Howard University Community,

The Office of Research will host **HU Research Month (April 1- 30, 2024)**. 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 1.

Our Partner Events

- ✓ From The U.S. Airforce, *Airforce Work Project (AFWERX) Seminar* on April 9.
- ✓ The Center for Applied Data Science and Analytics (CASDA) *Inaugural Symposium* on April 10.
- ✓ From HU Cancer Center, *The Cancer Health Equity Scientific Symposium* on April 11.
- ✓ *The Computing for Social Good Symposium with Dr. Juan Gilbert* on April 11.
- ✓ *The Springer Nature Worktop* on April 15.
- ✓ *The Dow Howard Climate Summit* on April 22.
- ✓ *The Battelle Research Seminar* on April 22.
- ✓ *The Robotics, Artificial Intelligence (AI) & Community Research Symposium* on April 24.
- ✓ *The Brookhaven National Laboratory Seminar* on April 25.
- ✓ *The Howard University Undergraduate Research Journal (Ukweli) Awards Ceremony* on April 26.
- ✓ From DOE, *STEM Research Training Opportunities at Department of Energy National Labs* on April 26.

The Signature Event

- ✓ The widely acclaimed *Research Symposium* will be on April 25 – 26. 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 IBM HBCU Quantum Center Symposium* on April 29 and 30.

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

Sincerely,

Bruce A. Jones, Ph.D.
Professor and Vice President for Research



2201 Georgia Avenue, N.W., Room 421E
Washington, DC 20059

(T) 202 806 4759
(F) 202 483 8042
www.howard.edu

RESEARCH MONTH 2024 ACTIVITIES

MONDAY, APRIL 1

12:00 PM – 5:00PM

Research Month Opening Ceremony and Luncheon

Location: Interdisciplinary Research Building, Multipurpose Room

WEDNESDAY, APRIL 3

12:00 PM – 5:00PM

**Ninth Annual Interprofessional Education Workshop:
Arts, Humanities, Health Justice: An Interprofessional
Collaboration to Healing**

This workshop will provide an understanding of the importance of interprofessional collaboration, enhance your interprofessional communication skills, increase your understanding of medical humanities and the intersection between health providers, art, and health outcomes, and discuss the value of art as a healing form in patient care.

Presenters:

Dr. Dana A. Willians, Professor, English, College of Arts & Sciences, Dean, The Graduate School & Co-Executive Director of the Georgetown-Howard Center for Medical Humanities and Health Justice (MHHJ)

Dr. Lakshmi Krishnan, Assistant Professor of Medicine, Director, Georgetown Medical Humanities Initiative & Co-Executive Director of the Georgetown-Howard Center for Medical Humanities and Health Justice (MHHJ)

Dr. Sharon M. King, Visual and Performance Artist, Cultural Anthropologist and Arts Educator, Founder, A MINOR ENTERPRISE

Ms. Phylcia Rashad, Inaugural Chairholder of the Toni Morrison Endowed Chair in Arts & Humanities, Dean, The Chadwick A. Boseman College of Fine Arts

Location: Armour J. Blackburn Center, Auditorium

RESEARCH MONTH 2024 ACTIVITIES

TUESDAY, APRIL 9

12:00 PM - 2:00 PM

The Graduate School Publishing Workshop

This workshop will provide strategies, best practices and an overview of the journal publishing process.

Presenters:

Dr. Terri Adams, Professor, Sociology & Criminology, College of Arts & Sciences

Dr. Osinachi Ajoku, Assistant Professor, Atmospheric Sciences, College of Arts & Sciences

Dr. Omari Swinton, Professor, Economics, College of Arts & Sciences

Dr. Tia Tyree, Professor, Communication Studies, The Cathy Hughes School of Communication

Dr. Dana Williams, Professor, English, College of Arts & Sciences, Dean, The Graduate School

Location: Interdisciplinary Research Building, Multipurpose Room

WEDNESDAY, APRIL 10

12:30 PM - 5:00 PM

The Center for Applied Data Science & Analytics Symposium

(CADSA) Symposium

The CADSA Symposium will feature CADSA Fellows and Faculty Scholar presentations on Data Science and Machine Learning, and Artificial Intelligence (AI) in Healthcare/Health Sciences.

Presenters:

Dr. Anthony K. Wutoh, Provost & Chief Academic Officer

Dr. William Southerland, Professor, CADSA and RCMI Director, College of Medicine

Dr. Nathan Alexander, Assistant Professor, Curriculum & Instruction, School of Education

Dr. Edmund Ameyaw, Assistant Professor, Pharmaceutical Sciences, College of Pharmacy

Dr. Anietie Andy, Assistant Professor, Computer Science, College of Engineering & Architecture

Dr. Edward Cornwell, Professor, Surgery, College of Medicine

Dr. Krishna Kumar, Professor, Pharmaceutical Sciences, College of Pharmacy

Dr. Abiodun Otolorin, Assistant Professor, Community Health & Family Practice, College of Medicine

HOWARD UNIVERSITY

RESEARCH MONTH 2024 ACTIVITIES

Dr. Kenton Ramsby Associate Professor, English, College of Arts & Sciences

Dr. Talitha Washington, Director, Atlanta University Center (AUC) Data Science Initiative, Clark Atlanta University

Dr. Junrui Xu, Assistant Professor, Biology, College of Arts & Sciences

Dr. Yan-Liang Yu, Assistant Professor, Sociology & Criminology, College of Arts & Sciences

Location: Interdisciplinary Research Building, Multipurpose Room

THURSDAY, APRIL 11

9:00 AM - 3:00 PM

Cancer Health Equity Symposium

The Howard University Cancer Center will host the Cancer Health Equity Scientific Symposium on Thursday, April 11. Clayton Yates, Ph.D., M.S., Professor of Pathology, Oncology, and Urology at Johns Hopkins Medicine will deliver the Keynote Address. The talk is titled *Reassessing Tumor Biology through the Lens of African Ancestry and Equity*. The symposium will highlight Howard University's research innovations in addressing cancer disparities.

Presenters:

Dr. Clayton Yates, Professor of Pathology, Oncology, and Urology, Johns Hopkins Medicine

Location: Barbara Jordan Conference Center, 1330 G St. NW, Washington, DC 20005

3:00 PM - 8:00 PM

Computing for Social Good – Dr. Juan E Gilbert

This signature event will include a research seminar, Innovative Voting Technologies, and Virtual Traffic Stop Demos; a panel discussion and UF CISE Graduate Program Innovation Booth.

Presenters:

Dr. Juan Gilbert, The Banks Family Preeminence Endowed Professor, University of Florida, National Medal of Technology, and Information Laureate

Location: Interdisciplinary Research Building, Multipurpose Room

RESEARCH MONTH 2024 ACTIVITIES

FRIDAY, APRIL 12

10:00 AM – 5:00 PM

**American Society for Microbiology (ASM), D.C. Branch
Spring Meeting, *The Amazing Microbial World***

Join DC area microbial scientists (professionals and students) for an exciting meeting of science and networking. This year's Spring meeting is a one-day symposium highlighting innovative research as well as providing opportunities for networking and outreach.

Presenters:

Dr. Joanne Engel, Chief, Division of Infectious Disease, Department of Medicine, Director, Microbial Pathogenesis and Host Defense Program; Professor, Department of Medicine, University of California San Francisco

Dr. Karl Thompson, Associate Professor, Microbiology, College of Medicine and President-Elect, DC Branch of ASM

Dr. Courtney Robinson, Associate Professor and Interim Chair, Department of Biology, COAS

Location: Interdisciplinary Research Building, Multipurpose Room

MONDAY, APRIL 15

12:00 PM – 3:00 PM

Springer Nature Research Day

This symposium is an insightful presentation on global scientific research opportunities for faculty and students with Springer Nature Journal Editors and Leadership.

Presenters:

Ms. Eseohe Arhebamen-Yamasaki, Head of External Communications US

Ms. Olaitan Orié, Senior Strategic Partnerships Manager

Ms. Mimi Hendriks, Executive Licensing Manager

Location: Interdisciplinary Research Building, Multipurpose Room

RESEARCH MONTH 2024 ACTIVITIES

TUESDAY, APRIL 16

8:00 AM - 5:00 PM

University Industry Partnerships (UIDP) HBCU ENGAGE Conference

HBCU Engage is a unique forum that brings together representatives from all sectors to enhance partnerships and forge new collaborations. This annual event goes beyond talent recruitment and retention goals to engage representatives from HBCUs, industry, national labs and government agencies, and other universities. Practical sessions and candid discussions offer an unmatched opportunity for attendees to advance a range of goals, from multi-party collaboration for federal research programs to strengthening and enhancing research capacity.

Location: The Grand Baltimore, 225 N Charles Street, Baltimore, MD

WEDNESDAY, APRIL 17

8:00 AM - 5:00 PM

University Industry Partnerships (UIDP) HBCU ENGAGE Conference

HBCU Engage is a unique forum that brings together representatives from all sectors to enhance partnerships and forge new collaborations. This annual event goes beyond talent recruitment and retention goals to engage representatives from HBCUs, industry, national labs and government agencies, and other universities. Practical sessions and candid discussions offer an unmatched opportunity for attendees to advance a range of goals, from multi-party collaboration for federal research programs to strengthening and enhancing research capacity.

Location: The Grand Baltimore, 225 N Charles Street, Baltimore, MD

THURSDAY, APRIL 18

8:00 AM - 5:00 PM

Leadership Alliance 2024 Spring Conference

The Leadership Alliance, is a partnership of 23 institutions, focused on developing underrepresented students into outstanding leaders and role models in academia, business, and the public sector. The consortium includes Brown University, Caltech, Claflin University, Columbia University, Cornell University, Dartmouth College, Howard University, Morehouse College, Morgan State University, Spelman College, Tougaloo College, University of Puerto-Rico- Rio Piedras, University of Virginia, and Yale University.

Presenters:

Dr. Dexter Lee, Associate Professor, Physiology & Biophysics, College of Medicine

Location: Interdisciplinary Research Building, Multipurpose Room

HOWARD UNIVERSITY

RESEARCH MONTH 2024 ACTIVITIES

FRIDAY APRIL 19

11:00 AM – 1:00 PM

The Howard Effect- Making Sense of 2024 Elections

This seminar will feature a thought-provoking discussion on the 2024 presidential election, workplace politics and black politics.

Presenters:

Dr. Marcus Board Jr. Associate Professor, Political Science, College of Arts & Sciences

Dr. Ayana Best, Assistant Professor, Political Science, College of Arts & Sciences

Dr. Ravi Perry, Professor, Political Science, College of Arts & Sciences

Dr. Elsie Scott, Professor, Political Science, College of Arts & Sciences, Director, Ronald W. Walters Leadership & Public Policy Center

Location: Interdisciplinary Research Building, Multipurpose Room

3:00 PM - 5:00 PM

Airforce Work Project (AFWERX) Seminar

Mr. Daniel Caroll leads the management and execution for the \$1.3 Billion US Air Force and Space Force Small Business Innovation Research and Small Business Technology Transfer (SBIR/STTR) programs. Previously, Daniel was the Chief Engineer at USAF Kessel Run, the Technical Director at the US Special Operations Command Program Executive Office Fixed Wing aircraft, and the Autonomous Vehicles Lead Engineer for Space and Naval Warfare Systems Center. Daniel earned an MSx in Management from the Stanford Graduate School of Business through the USAF Civilian Development program and a BS/MSE in Electrical and Computer Engineering from Johns Hopkins University.

Presenters:

Mr. Daniel Carroll, AFWERX AF Ventures Director / Stanford Sloan MSx Fellow

Location: Interdisciplinary Research Building, Multipurpose Room

MONDAY, APRIL 22

10:00 AM-12:00 PM

Battelle Research Seminar

Battelle Scientists and Technology Fellows will present a seminar on research topics in Climate Science, Quantum, and Artificial Intelligence.

Presenters:

Ms. Storm Woods, Vice President of Diversity, Equity & Inclusion, Battelle

Location: Interdisciplinary Research Building, Multipurpose Room

MONDAY, APRIL 22

1:00 PM – 5:00 PM

**Dow Chemical - Howard University Climate Summit,
*Adaptation, Mitigation and Equity***

This summit will focus on building collaboration between Howard University and Dow Chemical focused on climate resilience research, infrastructure, curriculum development and programming.

Presenters

Dr. Terri Adams, Professor, Sociology & Criminology, College of Arts & Sciences & Deputy Director, NCAS-M

Dr. Osinachi Ajoku, Assistant Professor, Earth Environment & Equity, College of Arts & Sciences

Dr. Sen Chiao, Professor, Atmospheric Sciences, College of Arts & Sciences & NCAS-M Director

Dr. Steven Cummings, Assistant Professor, Chemistry, College of Arts & Sciences Dr. Rubin Patterson, Professor, Sociology & Criminology & Dean, College of Arts & Sciences

Dr. Joseph Wilkins, Assistant Professor, Earth Environment & Equity, College of Arts & Sciences

Dr. Patrick Ymele-Leki, Associate Professor, Chemical Engineering, College of Engineering & Architecture

Dr. Amy Beasley, Associate Sustainability Director, Water & Nature, Dow

Mr. Jarod D. Davis, Gov. Affairs Director, Social Equity & Environmental Justice, Dow

Mr. Tim Finley, Global Technology Leader, Environmental Operations, Dow

Dr. Patrick Hanley, R & D Director, Growth & Innovation & External Technology, Dow

Ms. Carrie Houtman, Sustainability Director, Climate & Circularity, Dow

Dr. Amanda Palumbo, Associate R&D Director, External Technology, Dow

Location: Interdisciplinary Research Building, Multipurpose Room

RESEARCH MONTH 2024 ACTIVITIES

TUESDAY, APRIL 23

12:00 PM – 5:00 PM

Argonne National Laboratory (ANL) Seminar

Argonne National Laboratory will host a seminar to discuss an overview of its current multidisciplinary science and engineering research portfolio that seeks to address the biggest questions facing humanity. In addition, three of Argonne's current strategic initiative areas will be discussed: Artificial Intelligence (AI)/Computing, Microelectronics, and Quantum Information Science. Faculty and students will learn how to get involved in research partnerships and opportunities such as user facility programs, faculty exchange programs, undergraduate and graduate internships, and grant collaboration opportunities.

Presenters:

Dr. Meredith Bruozas, Institutional Partnership Director

Dr. Sean Jones, Deputy Director for Science & Technology

Dr. Phil Smith, Strategic Programs Manager

Dr. Valerie Taylor, Argonne Distinguished Fellow & Division Director

Location: Interdisciplinary Research Building, Multipurpose Room

WEDNESDAY, APRIL 24

1:00 PM – 5:00 PM

Robotics, Artificial Intelligence (AI) & Community Outreach presented by the Institute for Human-Centered AI at Howard and Interactive Computing Group.

This symposium will feature research presentations from faculty and student researchers on innovative research in affective computing, human-centered computing, computer science education and robotics.

Presenters:

Dr. Jeremy Blackstone, Assistant Professor, Computer Science, College of Engineering & Architecture

Dr. Todd Shurn, Associate Professor, Computer Science, College of Engineering & Architecture

Dr. Gloria Washington, Associate Professor, Computer Science, College of Engineering & Architecture

Dr. Saurav Aryal, Senior Research Scientist, Computer Science, College of Engineering & Architecture

Dr. Jaye Nias, Senior Research Scientist, Computer Science, College of Engineering & Architecture

Dr. Lucretia Williams, Senior Research Scientist, Computer Science, College of Engineering & Architecture

Ms. Nia Anderson, Undergraduate Student, Computer Science, College of Engineering & Architecture

Mr. Christopher Watson, Undergraduate Student, Computer Science, College of Engineering & Architecture

Location: Interdisciplinary Research Building, Multipurpose Room

RESEARCH MONTH 2024 ACTIVITIES

THURSDAY, APRIL 25

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

1:05 PM

Oral & Poster Presentations

5:00 PM

Closing

Location: Interdisciplinary Research Building

10 AM - 11:00 AM

College of Arts & Sciences, Honors Program Faculty Fellows Seminar

This event will feature fellows from The College of Arts & Sciences Faculty Fellows program. The Honors Faculty Fellows shape the minds of America’s future generation and teach students who are ready and able to change the world. The Honors Faculty Fellows are active researchers who mentor students in the Honors Program.

Presenters:

Dr. LaTanya Brown-Robertson, Professor, Economics, College of Arts & Science & Honors Program Director

Ms. Andrea Calloway, Assistant Director, Honors Program, College of Arts & Sciences

Dr. Bahiyyah Muhammad, Associate Professor, Sociology & Criminology. College of Arts & Sciences

Dr. Amy Yeboah- Quarkume, Associate Professor, Afro-American Studies, College of Arts & Sciences

Dr. Mesi Bakari-Walton, Assistant professor, World Languages and Cultures. College of Arts & Sciences

Location: Interdisciplinary Research Building, Multipurpose Room

12:00PM - 1:00 PM

Dow Scholars Undergraduate Research (SURE) Seminar

This symposium will feature research technical talks and networking opportunities with Dow Scientists. The Dow SURE Scholars will also present their research presentations from 9am -12pm at the Research Symposium

Presenters:

Sophia Brooks, Chemistry, College of Arts & Sciences

Makenna Davis, Biology, College of Arts & Sciences

Alexis Duncan, Chemistry, College of Arts & Sciences

RESEARCH MONTH 2024 ACTIVITIES

Jordan Gray, Chemistry, College of Arts & Sciences

Ankur Gyawali, Computer Science, College of Engineering & Architecture

Kate Hall, Chemical Engineering, College of Engineering & Architecture

Janet Johnson, Chemical Engineering, College of Engineering & Architecture

Amber Jones, Chemistry, College of Arts & Sciences

Treylin Lewis, Chemical Engineering, College of Engineering & Architecture

Kaya Moody, Chemistry, College of Arts & Sciences

Edward Onochie, Chemistry, College of Arts & Sciences

Raiyan Rashad, Chemistry, College of Arts & Sciences

Archarya Sameer, Computer Science, College of Engineering & Architecture

Nisha Shrestha, Chemistry, College of Arts & Sciences

Haley Warren, Chemistry, College of Arts & Sciences

Marissa Wheeler, Chemical Engineering, College of Engineering & Architecture

Jesenia Wofford, Chemistry, College of Arts & Sciences

Location: Interdisciplinary Research Building, Multipurpose Room

THURSDAY, APRIL 25

2:00 PM – 4:00 PM

Brookhaven National Laboratory (BNL) Seminar

Brookhaven National Lab will host a seminar on research partnership opportunities for faculty and students. Attendees will learn about the lab's user facilities, faculty exchange programs, student internships and grant collaboration opportunities. The laboratory leads and supports diverse research teams including other National Laboratories, academia, and industry, by designing, building, and operating major scientific user facilities in support of its DOE mission. These facilities reflect BNL/ DOE stewardship of national research infrastructure critical for researchers—such as response to national emergencies (e.g., COVID-19 research). Energy and data science, nuclear science and particle physics, accelerator S&T, quantitative plant science, and quantum information science are Brookhaven's current initiatives.

Presenter:

Dr. John Hill, Deputy Director of Science & Technology, BNL

Location: Interdisciplinary Research Building, Multipurpose Room

RESEARCH MONTH 2024 ACTIVITIES

THURSDAY, APRIL 25

5:15 PM – 5:45 PM

This Academic Life Podcast

Presenters:

Dr. Kim Lewis, Professor, Physics & Astronomy & Associate Dean for Research, College of Arts & Sciences

Dr. Sonya T. Smith, Professor, Mechanical Engineering & Interim Director of Research Institute of Tactical Autonomy (RITA) UARC

Dr. Pania Newell, Assistant Professor, Mechanical Engineering, University of Utah

Dr. Lucy Zhang, Professor, Mechanical, Aerospace & Nuclear Engineering, Rensselaer Polytechnic Institute

Location: Interdisciplinary Research Building, Multipurpose Room

FRIDAY, APRIL 26

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

1:15 PM

Oral & Poster Presentations

5:00 PM

Closing

Location: Interdisciplinary Research Building

10:00 AM – 11:00 AM

Understanding my role in cancer research: Training Opportunities at The National Cancer Institute (NCI), National Institutes of Health (NIH)

The National Cancer Institute (NCI) is the largest cancer research organization in the world and has numerous opportunities for researchers to come and train at NCI. From internships to fellowships, fellows can conduct research, receive mentorship, and professional development while expanding their footprint in the world of cancer research. As part of the federal government, NCI focuses on the cancer care continuum to advance scientific knowledge and help people live longer, healthier lives. This session will focus on those opportunities for you to contribute to the cancer care continuum.

Presenters:

Dr. Dominique Griffin, AAAS Science & Technology Policy Fellow, NCI, NIH

Ms. Crystal Lane, Public Health Advisor, Epidemiology and Genomics Research Program's (EGRP), NIH

Ms. Deanna Riley, Post baccalaureate Research Fellow, NCI, NIH

Location: Interdisciplinary Research Building, Multipurpose Room

RESEARCH MONTH 2024 ACTIVITIES

FRIDAY, APRIL 26

11:00 AM – 12:00 PM

Oakridge National Laboratory (ORNL) Seminar

Oak Ridge National Laboratory (ORNL) is the largest multiprogram science and energy laboratory in the DOE system. Its mission is to deliver scientific discoveries and technical breakthroughs that accelerate the development and deployment of solutions in clean energy and national security, creating economic opportunity for the Nation. Established in 1943 as part of the Manhattan Project, ORNL pioneered plutonium production and separation, then focused on nuclear energy and later expanded to other energy sources and their impacts. Today, the laboratory manages one of the Nation's most comprehensive materials programs; two of the world's most powerful neutron science facilities, the Spallation Neutron Source and the High Flux Isotope Reactor; unique resources for fusion and fission energy and science; production facilities for life-saving isotopes; leadership-class computers including Summit, the Nation's fastest; and a diverse set of programs linked by an urgent focus on clean energy, Earth system sustainability, and national security.

Presenters:

Dr. Moody E. Altamimi, Director, Office of Research Excellence

Location: Interdisciplinary Research Building, Multipurpose Room

12:00 PM – 1:00 PM

Argonne National Laboratory (ANL) Seminar

Argonne National Laboratory will host an overview seminar to discuss its six U.S. Department of Energy (DOE) national user facilities. These user facilities allow researchers from universities, national laboratories, industry, and federal agencies to use cutting-edge scientific tools to conduct experiments otherwise not possible. Faculty and students will learn how to submit user proposals and engage in training programs, as well as get involved in the Argonne and broader national lab user facility ecosystem.

Presenters:

Dr. Ilke Arslan, Director, Center for Nanoscale Materials & Division Director, ANL

Dr. Paige Kinsley, Leadership Computing Facility Education Outreach Lead, ANL

Location: Interdisciplinary Research Building, Multipurpose Room

RESEARCH MONTH 2024 ACTIVITIES

FRIDAY, APRIL 26

1:00 PM –2:00 PM

National Renewable Energy Lab (NREL) Seminar

National Renewable Energy Lab (NREL) will host a seminar on research partnership opportunities for faculty and students. Attendees will learn about the lab's user facilities, faculty exchange programs, student internships and grant collaboration opportunities. National Renewable Energy Laboratory (NREL) is DOE's primary National Laboratory for renewable energy and energy efficiency R&D. The laboratory delivers impactful scientific discoveries, innovations, and insights that transform clean energy technologies, systems, and markets. Also, the laboratory's research focuses on engineering of energy efficiency, sustainable transportation, and renewable power technologies and provides the knowledge to integrate and optimize energy systems.

Presenters:

Dr. Kristin Wegner Guilfoyle, Joint Institute for Strategic Energy Analytics (JISEA), NREL

Location: Interdisciplinary Research Building, Multipurpose Room

2:00 PM - 4:00PM

STEM Research Training Opportunities at the Department of Energy (DOE)

Join us to learn about research funding and training opportunities sponsored by U.S. Department of Energy's Office of Science and how to engage with Office of Science Programs with a panel of representatives from the offices of; Basic Energy Sciences (BES), Biological and Environmental Research (BER), and Workforce Development for Teachers and Scientists (WDTS).

Presenters:

Dr. Ping Ge, Director, Office of Workforce Development for Teachers, and Scientists

Dr. Brandi Toliver, Program Manager, Office of Workforce Development for Teachers, and Scientists

Dr. Igor Slowing, Program Manager, Office of Workforce Development for Teachers, and Scientists

Location: Interdisciplinary Research Building, Multipurpose Room

RESEARCH MONTH 2024 ACTIVITIES

FRIDAY, APRIL 26

5:00 PM – 8:00 PM

Howard University Undergraduate Journal Awards Ceremony

The Howard University Undergraduate Journal (*Ukweli*) will host their Annual Awards Ceremony to celebrate the release of the 2024 Edition of *Ukweli: Howard University Undergraduate Research Journal*, with the option of short presentations from the authors and announce their category winners.

Presenters:

Kirsten Branch, Biology, College of Arts & Sciences, Co-Editor-in-Chief
Ava Conyer, Chemical Engineering, College of Engineering & Architecture, Co-Editor-in-Chief

Location: Interdisciplinary Research Building, Multipurpose Room

MONDAY, APRIL 29

10:00 AM - 5:00 PM

IBM HBCU Quantum Center Symposium - Building Community and Advancing Quantum

The Symposium will include discussions on quantum information science through the lens of Black researchers, academics, and entrepreneurs, highlighting upcoming research and funding opportunities for scholars and faculty. Workshops include lectures and networking opportunities from diverse quantum industries. Scholars, Faculty and Postdoctoral researchers are invited to participate in the inaugural HBCU Quantum Research Day, promoting awareness and understanding of quantum science and technology at HBCUs.

Presenters:

Dr. Kayla Lee, IBM Quantum Center Co-Founder, Global Lead, Ecosystem Growth, IBM

Dr. Thomas Searles, IBM Quantum Center Co-Founder, Associate Professor, University of Illinois, Chicago

Dr. Su Yan, Assistant Professor, Electrical Engineering & Computer Science, Director, IBM HBCU Quantum Center, Howard University

Location: Interdisciplinary Research Building, Multipurpose Room

RESEARCH MONTH 2024 ACTIVITIES

TUESDAY, APRIL 30

10:00 AM - 5:00 PM

IBM HBCU Quantum Center Symposium - Building Community and Advancing Quantum

The Symposium will include discussions on quantum information science through the lens of Black researchers, academics, and entrepreneurs, highlighting upcoming research and funding opportunities for scholars and faculty. Workshops include lectures and networking opportunities from diverse quantum industries. Scholars, Faculty and Postdoctoral researchers are invited to participate in the inaugural HBCU Quantum Research Day, promoting awareness and understanding of quantum science and technology at HBCUs.

Presenters:

Dr. Kayla Lee, IBM Quantum Center Co-Founder, Global Lead, Ecosystem Growth, IBM

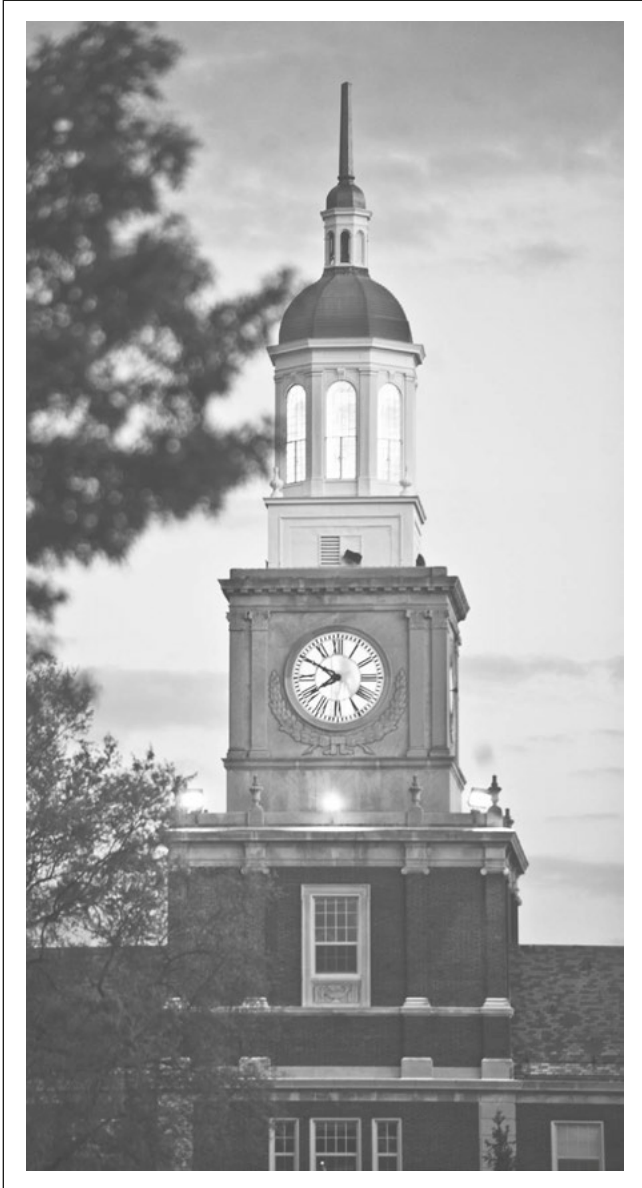
Dr. Thomas Searles, IBM Quantum Center Co-Founder, Associate Professor, University of Illinois, Chicago

Dr. Su Yan, Assistant Professor, Electrical Engineering & Computer Science, Director, IBM HBCU Quantum Center, Howard University

Location: Interdisciplinary Research Building, Multipurpose Room

HOWARD UNIVERSITY

RESEARCH SYMPOSIUM



HOWARD UNIVERSITY

Office of Research – Research Development

March 29, 2024

Dear Howard University Community and Supporters:

On behalf of the organizing committee, we extend our deepest gratitude to everyone who contributed to the success of Research Month at Howard University. Your collective efforts, energy, and dedication made this year's events truly extraordinary, reinforcing our commitment to academic excellence and innovation.

To our faculty, staff, and students: thank you for your active participation and for showcasing the groundbreaking research, creative projects, and scholarly endeavors that define the Howard experience. Your work continues to inspire and set a high standard of achievement, reflecting our university's mission to advance knowledge and serve communities.

To our volunteers: your time and enthusiasm ensured that every event ran smoothly. From managing logistics to welcoming attendees, your contributions created a warm and supportive environment for all participants.

To our presenters: your insights and expertise captivated audiences and sparked meaningful discussions that will undoubtedly shape the future of research across disciplines. Thank you for sharing your knowledge and being an integral part of this celebration of discovery.

To our external guests and partners: your presence and engagement enriched the Research Month experience. We value your support and collaboration in fostering an environment of curiosity and inquiry.

Research Month exemplifies the best of what we can achieve as a community when we come together to celebrate learning, discovery, and the pursuit of truth. Once again, thank you to everyone who contributed to making this year's Research Month a resounding success.

We look forward to building on this momentum and hope to see you all next year for another inspiring celebration of research and innovation.

With gratitude,

Pamela A.G. Clarke, MSc.
Director of Research Development
Committee Chair

Youlander Greene
Program Coordinator
Committee Co-Chair

4th & College Streets, NW
Washington, DC 20059



Telephone 202 806 6000
Facsimile 202 806 4971
www.howard.edu



**INTERDISCIPLINARY RESEARCH BUILDING
APRIL 25-26, 2024**

PROGRAM

7:30 – 8:30 AM

Registration & Continental Breakfast

1st Floor, Interdisciplinary Research Building

8:30– 8:50AM

Greetings

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

Provost & Chief Academic Officer

Opening Remarks

Bruce Jones, Ph.D.

Senior Vice President for Research

Pamela A.G. Clarke, Director for Research Development

PRESENTATIONS

APRIL 25, 2024

9:00 AM – 12:00 PM

Poster Presentations

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

Oral Presentations

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

12:00 – 1:00 PM

Lunch

1:05 PM – 5:00 PM

Poster Presentations

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

Oral Presentations

Physical Sciences & Engineering
Translational & Clinical Sciences
Biological & Biomedical Sciences
Humanities
Social Sciences
Business
Environmental Sciences & Studies

HOWARD UNIVERSITY

RESEARCH SYMPOSIUM

PRESENTATIONS

APRIL 26, 2024

9:00 AM – 12:00 PM

Poster Presentations

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

Oral Presentations

Biological & Biomedical Sciences
Environmental Sciences & Studies
Humanities
Physical Sciences & Engineering
Social Sciences
Translational & Clinical Sciences

12:00 – 1:00 PM

Lunch

1:05 PM – 5:00 PM

Poster Presentations

Education & Outreach
Environmental Sciences & Studies
Social Sciences

Oral Presentations

Biological & Biomedical Sciences
Environmental Sciences & Studies
Physical Sciences & Engineering

ORAL PRESENTATIONS

APRIL 25, 2024

SESSION I

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

Jasmine Britford, Undergraduate Student, Biological & Biomedical Sciences
The effects of RNA Polymerase III structures on small non-coding RNAs in a patient derived POLR3B-variants

Christie Cambridge, Undergraduate Student, Biological & Biomedical Sciences
Validation of Genome-wide CRISPR-interference screen in NPC1^{-/-} glutamatergic neurons

Joshua Carter, Undergraduate Student, Biological & Biomedical Sciences
Metabolic and Hypoxic Consequences of Metformin Intervention in the Tumors of Obese Mice

Taújay Davis, Undergraduate Student, Biological & Biomedical Sciences
Mutations in components of the loop-extrusion machinery and their contributions to disease or developmental disorders

Deja Straughter, Undergraduate Student, Biological & Biomedical Sciences
Mitochondrial defects in mutants of the GATOR1 and GATOR2 Complex

9:00 AM - 10:00 AM | 3RD FLOOR CONFERENCE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Kaleb Barnes, Undergraduate Student, Biological & Biomedical Sciences
The Interplay between Alzheimer's Disease and Substance Abuse

Junyan Li, Graduate Student, Biological & Biomedical Sciences
Analyzing COVID-19 Positivity Data Using Machine Learning

Jordan Tucker, Undergraduate Student, Biological & Biomedical Sciences
A Meal Prep A Day keeps the "Freshman 15" Away

Shamel Wilson, Undergraduate Student, Biological & Biomedical Sciences
MYC & OmoMYC: Role of MYC in Head and Neck Squamous Cell Carcinoma

Cameryn Wright, Undergraduate Student, Biological & Biomedical Sciences
The efficacy of DNA barcoding in uncovering genetic similarities and differences among closely related ant species

Lucas Davis Undergraduate Student, Physical Sciences & Engineering
Numerical simulation of skin friction and heat transfer measurements for a sharp cone in hypersonic flow

Kaie Hall, Undergraduate Student, Biological & Biomedical Sciences
Posttranscriptional regulation of TBK1 via miR-200c Binding

Anverly Jones, Undergraduate Student, Physical Sciences & Engineering
Proof-of-Concept Demonstration of Standoff Raman Spectroscopy for Lunar Science and Exploration

Jefferson Ogbuka, Undergraduate Student, Physical Sciences & Engineering
Modelling Nanosensor Devices with piezoelectric materials using COMSOL Multiphysics

Alana Okullo, Graduate Student, Physical Sciences & Engineering
First Principles Investigation of Thickness Dependent Magnetic Phase Transitions and Transport Properties in Heterostructures (MnBi₂Te₄)/(Bi₂Te₃)_n

SESSION II

Kennedy Chastang Undergraduate Student, Translational & Clinical Sciences
Temporal Trends of Blood Glucose in Children with Cerebral Malaria

Carl Clay, Undergraduate Student, Biological & Biomedical Sciences
Tumor exosome production in cisplatin resistant mouse oral cancer cells following knockdown of Rab27a

Jasmine Warren, Undergraduate Student, Biological & Biomedical Sciences
ADRB-2 Signaling Regulates IL-33 Expression in Pancreatic Ductal Adenocarcinoma (PDAC)

Aaron Conard, Graduate Student, Biological & Biomedical Sciences
An Investigation of White Matter Microstructure Abnormalities Associated with SUD and HIV

Eugene Holsey Undergraduate Student, Biological & Biomedical Sciences
The Impact of Socioeconomic Status on Pregnant Black Women's Management of Obesity & Overweightness

Ananya Hota, Undergraduate Student, Biological & Biomedical Sciences
SroA regulates Staphyloxanthin Pigment Synthesis in Staphylococcus aureus

Kaya Moody, Undergraduate Student, Biological & Biomedical Sciences
Investigating the impact of Conjugated Folic acid-dipeptide Frameworks on Mesenchymal Stem Cells

Sarees Shaikh, Graduate Student, Biological & Biomedical Sciences
Dynamic Patterns of Staphylococcus aureus Adhesion under Fluid Flow: Bridging Microfluidic Experiments with Computational Insights

10:00 AM – 11:00 AM | 3RD FLOOR FACULTY LOUNGE | PHYSICAL SCIENCES & ENGINEERING

Anirban Goswami, Graduate Student, Physical Sciences & Engineering
Anisotropic magnetocaloric effect in single crystal Cr₂Te₃

Ravneet Kaur, Graduate Student, Physical Sciences & Engineering
Development of radioactive decay chain calculator for actinium based targeted alpha therapy.

Sai krishna Narayanan, Graduate Student, Physical Sciences & Engineering
Pseudo Jahn-Teller effect at the intrinsic defects in hexagonal boron nitride

Nikolai Priezjev, Junior Faculty / Lecturer / Instructor, Physical Sciences & Engineering
Fatigue failure of metallic glasses under cyclic shear deformation

SESSION III

11:00 AM – 12:00 PM | 2ND FLOOR CONFERENCE ROOM | PHYSICAL SCIENCES & ENGINEERING | ETHICS, LAW & RELIGION

Sadiyah Anderson, Undergraduate Student, Physical Sciences & Engineering
Characterization of Thermal Conductivity for Niobium at Cryogenic Temperatures Using the Cut Bar Method

Jordan Clemetson, Undergraduate Student, Physical Sciences & Engineering
Deep Learning Approach for Lunar Analog Mineral Identification Using Raman Spectroscopy

Michaela-Joyce Moshe, Undergraduate Student, Ethics, Law & Religion
The Ethical Implications of Artificially Raised Food Prices: A Critical Examination of Food Deserts and its regards to stunted Child Growth

11:00 AM -12:00 PM | 3RD FLOOR FACULTY LOUNG | PHYSICAL SCIENCES & ENGINEERING | ETHICS, LAW & RELIGION

Saumika Bandopadhyay, Graduate Student, Physical Sciences & Engineering
Spectroscopic Characterization of Molybdenum Disulfide Using Raman and UV-VIS Spectroscopy for Optoelectronic Applications.

Cameron Lewis Graduate Student, Physical Sciences & Engineering
Quantum Corners: Improving Emergency Response with Smart Traffic Management and Quantum Sensors

Sahil Pradhan, Graduate Student, Physical Sciences & Engineering
Field dependence of spin glass transition temperature in Cu:Mn single crystals

Yaman Siwakoti, Undergraduate Student, Physical Sciences & Engineering
Spectroscopy and Simulation of Quantum Dots for Sensing and Computing applications

Siobhan Wofford, Undergraduate Student, Ethics, Law & Religion
Selective acknowledgement: America's selective financial compensation history

SESSION IV

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

Mariem Ahmed Undergraduate Student, Social Sciences, *Does the trauma stop if the oppression never does? A phenomenological review*

Chad-alex Dennis, Undergraduate Student, Social Sciences
Unraveling the College Wage Premium: Sectoral Disparities and Temporal Dynamics

Yajaira Fleming, Undergraduate Student, Social Sciences
Cultivating Critical Consciousness in Youth: A Rapid Review

Louis-leopold Muderhwa, Undergraduate Student, Social Sciences
The Politics of Resource Extraction in DR Congo and Fostering a Sustainable Solution to Mining in DR Congo

Havlin Havlin, Undergraduate Student, Social Sciences
Black Women's Participation in Fiber Arts: Past, Present, and Future

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

Denzell Brown Graduate Student, Social Sciences, *Advocacy among Black mothers whose children and immediate family members were murdered by gun violence*

Jerriel Hall, Graduate Student, Social Sciences
Language Justice for Who? Considering and Elevating Black Language Identity During the Evaluation Process

Shaina Thomas, Professional Student, Education & Outreach
HOME: A Case Study of American Public School Stakeholders' Identification and Responses to Student Homelessness

Dara Williams, Graduate Student, Social Sciences
Black Student Athlete Mental Health: Healing Past "Fake It Until You Make It"

SESSION V

2:00 PM -3:00 PM | 3RD FLOOR CONFERENCE ROOM | SOCIAL SCIENCES
EDUCATION & OUTREACH

Hanadi Alabaad Graduate Student, Social Sciences
Fintech and Women Empowerment, the Role of Digital Finance on Labor Market

Medora Frazier, Graduate Student, Social Sciences
Examining The Post-Concussion and Academic Learning Skills of Black Student-Athletes: An Exploratory Study

Nea Maloo, Junior Faculty/ Lecturer/ Instructor, Education & Outreach
Building and cities decarbonisation

Kyndra Middleton, Senior Faculty, Education & Outreach
Validation of a New Academic Acculturation Scale for College Students: Next Steps

2:00 PM -3:00 PM | 2ND FLOOR CONFERENCE ROOM | SOCIAL SCIENCES

Logan Ford, Undergraduate Student, Social Sciences
A Study of the Militant Radical Black Womanist of the 1960s and 1970s

Shayla George, Graduate Student, Social Sciences
The Journey of the American Black Revolution and the Interlude of White Backlash

Angela Laroche, Undergraduate Student, Social Sciences
The Impact Of Parental Incarceration In The Lives Of Black Children

Lauren Otis, Undergraduate Student, Social Sciences
Meeting the Sensory Needs of Children: Sensory Processing Disorder & Its Physical, Social, and Academic Effects

Savannah Sharpe, Undergraduate Student, Social Sciences
Dismantling Injustice: A Critical Examination Exposing How the U.S. Criminal Justice System Perpetuates the Oppression of Black Youth

2:00 PM -3:00 PM | 3RD FLOOR FACULTY LOUNGE | PHYSICAL SCIENCES & ENGINEERING

Bipul Gyawali Undergraduate Student, Physical Sciences & Engineering, "Exploring Piezoelectric Properties of ZnO Quantum Dots for Sensor Applications"

Sinan Sevim, Graduate Student, Physical Sciences & Engineering
Systematical Acceleration of Material Discovery

Quentin Taylor, Undergraduate Student, Physical Sciences & Engineering
Residual Resistivity Measurements of Superconductive Materials

SESSION VI

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

Chisom Eze, Undergraduate Student, Social Sciences
How natural resources affect GDP growth in Nigeria

Kennedi Roberts, Undergraduate Student, Social Sciences
Changing Lives in Educational Spaces: Teachers Trauma Competency Skills' Influence on Childhood Trauma and Academic Engagement

Anguelyca Sherrell, Undergraduate Student, Social Sciences
North America's Perfect Victim and it's Affect on Black Women

Peyton West, Undergraduate Student, Social Sciences
Women in the World: Their Political Past, Present, and Future

3:00 PM – 4:00 PM | 3RD FLOOR CONFERENCE ROOM | SOCIAL SCIENCES

Courtland Douglas, Graduate Student, Social Sciences
Masc Scripts, Masked Men?: A Review of Early Findings on a Study Examining Self-Gender Policing in Gay African American Men

Troy Kearsse, Graduate Student, Social Sciences
A Meta-Science Investigation of Stereotype Overlap Across Gender, Race, and Sexual Orientation

Whitney Skippings, Graduate Student, Social Sciences
Maternal Mental Health of Black Refugee Women: Conceptualizing Gaps and Advocating for Change

Fahtim'a Yaro, Graduate Student, Social Sciences
Desiring More Than Cotton: What Material Culture Tells Us About Commodified Sexual Exploitation

3:00 PM – 4:00 PM | 3RD FLOOR FACULTY LOUNGE | SOCIAL SCIENCES

Alex Boumoussa, Graduate Student, Translational & Clinical Sciences
Neural Network Insights into Operative Efficiency in Shoulder Arthroplasty

Raul Candelaria, Graduate Student, Translational & Clinical Sciences
The Murder of Tyre Nichols: The power of video counter-storytelling, policing culture, and police brutality

Kayin Davis, Undergraduate Student, Translational & Clinical Sciences
The potential for data science analytics to remediate existing health disparities through improved clinical and medical research insights.

Dorothy Oteng, Graduate Student, Translational & Clinical Sciences
Utilizing Machine Learning to Evaluate the Impact of Different Treatment Approaches on Cancer Progression and Metastasis and Predict Outcomes in African American Women with ER+ Breast Cancer

SESSION VII

4:00 PM – 5:00 PM | 2ND FLOOR CONFERENCE ROOM | SOCIAL SCIENCES | HUMANITIES

Takier George, Undergraduate Student, Humanities
“Let Her Tell It”: A Creative Eradication of Black Women Stereotypes

Jurnee Jessie, Undergraduate Student, Social Sciences
The Efficacy of the Truth and Reconciliation Commission

Joseph Sturgeon, Undergraduate Student, Social Sciences
“Sugar, the State, and A Commercial Empire: The Bass Family and the Exploitation of the Dominican Cane Sugar Industry, 1887-1912.”

Naima Valentine, Undergraduate Student, Social Sciences
Calls for Education as Reparations During the Reconstruction Era

4:00 PM – 5:00 PM | 3RD FLOOR FACULTY LOUNGE | PHYSICAL SCIENCES & ENGINEERING

Silvina Gatica, Senior Faculty, Physical Sciences & Engineering
Carbon capture from wet vapors

4:00 PM – 5:00 PM | 3RD FLOOR FACULTY LOUNGE | EDUCATION & OUTREACH

Courvaun Hill, Graduate Student, Education & Outreach
Social Workers as School Administrative Faculty

Rhylee Jones, Undergraduate Student, Education & Outreach
Socioeconomic Status and its Implications on Education

Jasmin Miller, Graduate Student, Education & Outreach
Reducing Pathways to the School to Prison Pipeline through Incentivized Attendance-Based Programming

APRIL 26, 2024

SESSION I

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

Charis Haynes, Undergraduate Student, Biological & Biomedical Sciences
Associations of Dietary Intake with Biomarkers of Inflammation during Pregnancy

9:00 AM - 10:00 AM | 2ND FLOOR CONFERENCE ROOM | SOCIAL SCIENCES

Marcus Board jr., Senior Faculty, Social Sciences
The Oppressive Violence that Begets Resistance: Uncontentious Politics and the Democracy Dilemma

Nkechi Enwerem, Senior Faculty, Social Sciences
Childcare Voucher: A Qualitative/Pilot Study, Exploring the Experiences of Expectant and Parenting Teenage Mothers in Washington, District of Columbia (DC).

Selina Graham, Post Doc/Resident/Fellow/Research Associate, Social Sciences
"Rebuilding Together and Occupational Therapy: Lived experiences of OT students during a pilot fellowship program"

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

Jermaine Heath, Professional Student, Translational & Clinical Sciences
Neighborhood Socioeconomic Deprivation and Likelihood of Revascularization in Maryland

9:00 AM - 10:00 AM | 3RD FLOOR CONFERENCE ROOM | HUMANITIES

Melanie Holmes, Junior Faculty/ Lecturer/ Instructor, Humanities
Voice of the People: Barbados and Black Internationalism in the Black Power Era (1920-1970)

9:00 AM - 10:00 AM | 3RD FLOOR CONFERENCE ROOM | TRANSLATIONAL & CLINICAL SCIENCES

Mudasir Rashid, Post Doc/Resident/Fellow/Research Associate, Translational & Clinical Sciences
MSH3: An underestimated DNA MMR gene in Colorectal Carcinogenesis and its potential role in disparity

SESSION II

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

Aliou Kamara, Undergraduate Student, Business

Throwing a Lifeline Behind Closed Doors: Addressing Informational Asymmetry Through a Signaling Theory Typology

Abhijit Roy, Senior Faculty, Business

Evolving Patterns of Networks of the Major Global Retailers: A Longitudinal Analysis

10:00 AM -11:00 AM | 2ND FLOOR CONFERENCE ROOM | CREATIVE ARTS & DESIGN

Simonne Legette, Undergraduate Student, Creative Arts & Design

Dance and its Relationship to Mental Health and Well-being

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

Lerato Cummings, Professional Student, Humanities

Hospitals are Killing Us: A Legal Response to the Ongoing Genocide of Black Mothers and Their Babies

10:00 AM -11:00 AM | 3RD FLOOR CONFERENCE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Chao-hsiung Hsu, Post Doc/Resident/Fellow/Research Associate, Biological & Biomedical Sciences

Advancing Microglia Morphology Analysis with YOLOv8

Shaolei Teng Senior Faculty, Biological & Biomedical Sciences

Analyzing Systemic Effects of Disease-Causing Mutations on Protein Function through Computational Platform

Stuart Washington, Post Doc/Resident/Fellow/Research Associate, Biological & Biomedical Sciences

Limbic and Whole-Brain Functional Connectivity in Non-Substance Abusers with HIV: A Machine-Learning Enhanced Analysis of Neuroimaging Data

10:00 AM -11:00 AM | 3RD FLOOR CONFERENCE ROOM | ENVIRONMENTAL STUDIES & SCIENCES

Yousef Hijji, Junior Faculty/ Lecturer/ Instructor, Environmental Sciences & Studies

Glucose amine Schiff Bases as Fluorescent Sensors for Recognition of Al³⁺ and Zn²⁺ Ions

John Tharakan, Senior Faculty, Environmental Sciences & Studies

Diversifying Ethics Across the Curriculum To Challenge Global Existential Threats

SESSION III

11:00 AM -12:00 PM | 2ND FLOOR CONFERENCE ROOM | HUMANITIES

Sydney Coleman, Graduate Student, Humanities

The Permanence of Death: The Materiality of Grave Markers and its Impact on the Burials of Black Soldiers and Civilians in Civil War Era Northern Virginia

Khari eyen zamé Johnson, Undergraduate Student, Humanities

In Due Time

Tamia Mcdonald, Graduate Student, Humanities

Rhythms of the Soul: The Influence of West African Drums in the Americas

Dawit Muluneh, Graduate Student, Humanities

The Miracles of Mary Texts, and Civilizational Discourses Across Nations and Regions

11:00 AM -12:00 PM | 2ND FLOOR CONFERENCE ROOM | SOCIAL SCIENCES

Carlos Aguilera Graduate Student, Social Sciences

The United States Supreme Court and Public Opinion

11:00 AM -12:00 PM | 3RD FLOOR CONFERENCE ROOM | BIOLOGICAL & BIOMEDICAL SCIENCES

Elizabeth Mingo, Staff, Biological & Biomedical Sciences

Mitochondria, Mood Lability, And Bone: MtSNPs' Surprising Relationship To Mental Homeostasis

11:00 AM -12:00 PM | 3RD FLOOR CONFERENCE ROOM | ENVIRONMENTAL SCIENCES & STUDIES

Kai Dixon, Undergraduate Student, Environmental Sciences & Studies

The Life Cycle Assessment (LCA) of Fungi-Based Building Insulation

11:00 AM -12:00 PM | 3RD FLOOR FACULTY LOUNGE | PHYSICAL SCIENCES & ENGINEERING

Kennedi White, Undergraduate Student, Physical Sciences & Engineering

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

POSTER EXHIBITION

Abigail Abia, Undergraduate Student, Biological & Biomedical Sciences

Bell's Palsy in the 21st Century; An update

Tarah Acecus, Undergraduate Student, Biological & Biomedical Sciences

Understanding Organismal Ecology of Identified Ant Species Through DNA Barcoding

Dickson Acheampong, Undergraduate Student, Biological & Biomedical Sciences

Understanding Addiction through AI: A predictive analysis powered by machine learning models

Simeon Adesina, Senior Faculty, Biological & Biomedical Sciences

Evaluation of Antitumor Effects of PSMA-Targeted Drug Loaded Nanoparticles in Cellular and Xenograft Models of Prostate Cancer

Daniel Adewale, Undergraduate Student, Biological & Biomedical Sciences

How can DNA barcoding contribute to the assessment of ant biodiversity and conservation efforts?

Lillian Agosto Maldonado, Graduate Student, Social Sciences

¿Quiénes somos? The Representation of the Latino Identity in the “¡Presente! A Latino History of the United States” Exhibit

Quaran Ahmad, Undergraduate Student, Environmental Sciences & Studies

Fostering Inclusion in Wind Energy Industries Through Grassroots Educational Programs

Muzaynah Al khairat, Professional Student, Biological & Biomedical Sciences

Additive Effects of Turmeric Forte Supplement on Type-2 Diabetes Mellitus in Sprague Dawley Rats Fed Nauclea Latifolia Root Extracts

Jordan Alexander, Undergraduate Student, Social Sciences

The Implementation of the United Nation's Right to Food: A U.S. Food Bill of Rights

Darrielle Alston, Undergraduate Student, Social Sciences

Vicarious racial discrimination and alcohol use behaviors among Black college students: A mixed methods approach

Sabrina Altema Junior Faculty / Lecturer / Instructor, Education & Outreach

Partnering for Success: A Scaffolded Approach to Inclusive Experiences in Clinical Education

Kyra Amacker, Graduate Student, Environmental Sciences & Studies

Evolutionary Influence on Heart Chamber Biomechanics and Morphology: Marine Actinopterygian Fishes

Saimoen Anderson, Undergraduate Student, Biological & Biomedical Sciences

Latent Autoimmune Disease (LADA) in African American Adults: Role of PFKFB3 Gene and Pathways in T2DM African American Patients

Sadiyah Anderson, Undergraduate Student, Physical Sciences & Engineering

Characterization of Thermal Conductivity for Niobium at Cryogenic Temperatures Using the Cut Bar Method

Sadiyah Anderson, Undergraduate Student, Translational & Clinical Sciences

Pediatric Oral Health Service Access in Racial/Ethnic Minority Neighborhoods: A Geospatial Analysis in Washington, D.C., USA

Tatiana Anthony, Graduate Student, Education & Outreach
Affirming Black Joy in Academia

Ogechi Anyamele, Undergraduate Student, Biological & Biomedical Sciences
“Which ant species are found in certain climates?”

Jaedon Arnasalam, Undergraduate Student, Social Sciences
Bridging The Great Divide: Rectifying Political Polarization

Jazmin Arnold, Undergraduate Student, Education & Outreach
Effects of Racial Representation on Self-Efficacy in School Children of Color

Abishai Aryee, Undergraduate Student, Biological & Biomedical Sciences
Traumatic Brain Injuries and Alzheimer’s Disease in African American Veterans

Anthony Asante-Danso, Undergraduate Student, Biological & Biomedical Sciences
Neural Inhibition of Insulin Resistance Genes and Mitochondrial Strengthening to Combat Early-Onset Dementia

Maame Kobe Asiamah, Undergraduate Student, Biological & Biomedical Sciences
*The impact of climate change on the regeneration of *Hydra viridissima**

Mikhyah Austin Undergraduate Student, Environmental Sciences & Studies, *Size Matters: Investigating the Influence of Fish Size and Undulation Duration on Flatfish Burial Behavior in Coarse Sediments*

Bryson Baker, Undergraduate Student, Biological & Biomedical Sciences
*How efficient is the use of DNA barcoding technology in biodiversity and species identification in relation to the *Prionelta* species?*

Oluwatimilein Bamgbola, Graduate Student, Social Sciences
Family-Based Multiple Minority Stress Model: Queer Young Adults of Color Coping with Stigma

Ian Barnett, Undergraduate Student, Biological & Biomedical Sciences
*Bmr and Sugar Traits Improve Feed Value in Sorghum (*Sorghum bicolor*) Genotypes*

Joshua Bartley, Undergraduate Student, Biological & Biomedical Sciences
Evaluation of the Efficacy of DNA Barcoding

Sydney Bell, Undergraduate Student, Biological & Biomedical Sciences
*Studying the isoform-specific role of the RNA-binding protein ETR-1 in *Caenorhabditis elegans* reproduction*

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

Ariel Beneyam, Undergraduate Student, Environmental Sciences & Studies
DNA Barcoding: Monitoring Ecological Responses to Environmental Changes

Faith Bentley, Undergraduate Student, Biological & Biomedical Sciences
Culturally Relevant Nutrition Education and Health Outcomes in Elderly Black Americans

Naina Bhatia-dey, Junior Faculty/ Lecturer/ Instructor, Biological & Biomedical Sciences
Olfaction and aging: at the crossroads of neurodevelopment and neurodegeneration

Ida Bittaye, Undergraduate Student, Biological & Biomedical Sciences
DNA Barcoding

Marcus Board jr., Senior Faculty, Social Sciences
The Oppressive Violence that Begets Resistance: Uncontentious Politics and the Democracy Dilemma

Mharisi Bonner Graduate Student, Social Sciences
Influences Beyond the Intersection of Race and Socioeconomic Status on School Performance

Autumn Boone, Graduate Student, Social Sciences
Examining Healthcare Disparities And The Psychosocial Factors That Contribute To Concussion Underreporting For Black Athletes

Ashley Bostic, Undergraduate Student, Translational & Clinical Sciences
Unveiling the Nutritional Nexus: Mindful Eating's Impact on Depression in Adult Black Men

Tamar Bouzi, Undergraduate Student, Biological & Biomedical Sciences
Neurotoxic Effects Associated with Lead Exposure

Carrington Boyer, Undergraduate Student, Ethics, Law & Religion
Exploring How Black People Are Excluded During Research Trials

Lakelle Bridges, Undergraduate Student, Biological & Biomedical Sciences
Using DNA Barcoding to Identify an Unknown Ant Species Found in Washington, DC

Ishinae Briggs, Undergraduate Student, Social Sciences
Reparations in the United States & Why These Words Sound So Foreign in the Same Sentence

Kwinci Britt, Professional Student, Biological & Biomedical Sciences
Characterization of Capsaicin Implant for Countering Obesity

Sophia Brooks, Undergraduate Student, Biological & Biomedical Sciences
Abstract: Stability Assessment of Unfiltered Solid Lipid Nanoparticles for Long-Term Viability of Optimized Drug Delivery Systems

Alicia Brown, Undergraduate Student, Biological & Biomedical Sciences
Humans Affect on Ant Populations

Laci Brown, Undergraduate Student, Biological & Biomedical Sciences
Deciphering Species Diversity Through DNA Barcoding

Jocelyn Brown, Professional Student, Biological & Biomedical Sciences
Machine Learning Approaches to Predict Type 2 Diabetes

Charnaeh Brown, Undergraduate Student, Biological & Biomedical Sciences
Unraveling Genetic Variation Within Tapinoma Sessile Ants

Madeline Brown, Professional Student, Education & Outreach
A qualitative study on the disparities in seborrheic dermatitis clinic trials in the United States

Cassandra Brown Graduate Student, Social Sciences
Examining Cultural Responsiveness in Concussion Management and The Roles of Interdisciplinary Team

Ewana Brown, Professional Student, Translational & Clinical Sciences
Tenecteplase Versus Alteplase in Acute Ischemic Stroke

Garrett Browne, Undergraduate Student, Biological & Biomedical Sciences
Understanding Organismal Ecology of Identified Ant Species Through DNA Barcoding

Khushi Bruta, Staff, Biological & Biomedical Sciences
Targeting DNA damage response enhances tumor cell Immunogenicity in pediatric Neuroblastoma Cancer.

Angel Bryant, Undergraduate Student, Social Sciences
Subcontinental Identity: A Comparative Qualitative Analysis of the Effects of Tribal and Caste Identity on Marriage Attitudes in Northeast India and North India

Clinton Burnside, Staff, Education & Outreach
Characteristics of “Men Take Ten” program participants from 2009-2018: Implications for future prostate cancer screening guidelines and recommendations

Danae Byer, Graduate Student, Translational & Clinical Sciences
Gender Disparities in Dietary Habits and Food Insecurity among African American Young Adults in Washington, D.C.

Kelaiah Carey, Undergraduate Student, Social Sciences
Comforting the Comfort Women: An Analysis of the Japanese Response to Redress

Joshua Carter, Undergraduate Student, Biological & Biomedical Sciences
Breathing under pressure: Gill pumping kinematics and temperature in teleost fishes.

Suryanarayana Reddy Challa, Post Doc/Resident/Fellow/Research Associate, Translational & Clinical Sciences, *A Comprehensive Comparative Analysis of Early Onset and Late onset Colorectal Cancer among African Americans: A 60-year study in an underserved population-serving hospital*

Be-ming Chang, Post Doc/Resident/Fellow/Research Associate, Biological & Biomedical Sciences, *Enhanced RF Coil and 3D Engineered Animal Imaging Platform for Ocular MRI*

Kennedy Chastang, Undergraduate Student, Translational & Clinical Sciences
Temporal Trends of Blood Glucose in Children with Cerebral Malaria

Huawei Chen, Post Doc/Resident/Fellow/Research Associate, Physical Sciences & Engineering
High-pressure Synthesis of Cobalt Polynitrides: Unveiling Intriguing Crystal Structures and Nitridation Behavior

Lakshmi Chirumamilla, Post Doc/Resident/Fellow/Research Associate, Translational & Clinical Sciences
Emerging Trends in Colorectal Cancer: A Comprehensive Analysis of Early and Late-Onset Cases among African Americans, with a Focus on the Pre- and During COVID-19 Era

Jackson Clark, Undergraduate Student, Education & Outreach
Identity and Improving Racial Consciousness in the Classroom

Zoë Coffman, Undergraduate Student, Social Sciences
Evaluation and Analysis of Physical Touch Deprivation on Quality of Life

Inga-Marie Cohen, Undergraduate Student, Social Sciences
Black Immigrants as the New Model Minority

Ryanne Coleman, Undergraduate Student, Biological & Biomedical Sciences
DNA Barcoding and Local Biodiversity of Ants

Phillip Cook, Undergraduate Student, Biological & Biomedical Sciences
Effects of epilepsy on brain development in adolescents

Ciara Cooper, Undergraduate Student, Biological & Biomedical Sciences
Ant Diversity Along the Northeast

Brittany Copeland Graduate Student, Humanities,
The Mental Health of Black Women College Athletes

Jaide Cotton, Professional Student, Translational & Clinical Sciences
Identifying Relevant Allergens and Anti-Inflammatory Therapy in Hair Loss Patients

Jabari Courtney, Undergraduate Student, Social Sciences
Digital Drag: Impression Management and the Intersection of Identity and Performance on Social Media

Uzziah Daniel, Undergraduate Student, Biological & Biomedical Sciences
Intersection of COVID-19 and Alzheimer's Disease: Insights from Cell and Molecular Biology

George Daniel, Graduate Student, Translational & Clinical Sciences
Income-Based Poverty Predicts Reduced Cognitive Performance in American Older Adults: The Health and Retirement Study

Taújay Davis, Undergraduate Student, Biological & Biomedical Sciences
Mutations in components of the loop-extrusion machinery and their contributions to disease or developmental disorders

Leikwaivon Davis, Undergraduate Student, Biological & Biomedical Sciences
Neuronal Activation of the Lateral Habenula in Rats with Preference for Palatable Food

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

Kofi Deh, Junior Faculty / Lecturer / Instructor, Biological & Biomedical Sciences
First in-human evaluation of [1-13C]pyruvate in D2O for hyperpolarized MRI

Wynter Dias, Undergraduate Student, Biological & Biomedical Sciences
DNA Barcoding In Relation To Identifying Invasive Species In Washington, D.C.

Chinormso Diribe Post Doc / Resident / Fellow / Research Associate, Translational & Clinical Sciences,
Elevated maternal mental distress in low resourced Black and African American pregnant women in DC

Ekbal Djibril, Undergraduate Student, Translational & Clinical Sciences
Cardiovascular Disease Risk in Diabetic African Americans: An Assessment Through Transcriptomic Approach

Alexis Duncan, Undergraduate Student, Physical Sciences & Engineering
Influence of Reaction Parameters on the Architecture of Grafted Nanoparticles Synthesized Using ATRP

Jacob Duncan, Undergraduate Student, Education & Outreach
The Health Cost of Ultra-Processed Foods: A Systematic Review on the Impact of Corporate Determinants of Health in Sub-Saharan Africa Countries.

Faithful Egharevba, Undergraduate Student, Biological & Biomedical Sciences
Exploring Ant Diversity

Adjoua Ehoussou, Undergraduate Student, Translational & Clinical Sciences
Factors Associated with Increased Outpatient Follow-Up Referrals for High-Risk Infants and Subsequent Clinic Attendance in Various States

Essiet-adidiong Ette, Post Doc/Resident/Fellow/Research Associate, Biological & Biomedical Sciences
Enhancing Microglia Cell Morphology Classification Through Elo-Rating in a Web-Based Application

Amaya Everett, Undergraduate Student, Biological & Biomedical Sciences
Comparing Ant DNA Between Urban Metropolises

Ayomidipupo Fadaka Undergraduate Student, Biological & Biomedical Sciences
Unraveling the Wings of Mortality: The Essential Role of Curly Suppressor (cysu) in reducing mortality in Drosophila Melanogaster Development

Taylor Fawell, Undergraduate Student, Biological & Biomedical Sciences
Unveiling the Disparities of Diabetic Insulin Resistance and Risks Among the Black Population

Moriah Fender, Undergraduate Student, Biological & Biomedical Sciences
Tracking the Evolution of Ants through their DNA

Iman Ferguson, Undergraduate Student, Social Sciences
Personality Factors as a Preliminary Indicator of Wellbeing

Jaena Ferguson Monk, Graduate Student, Biological & Biomedical Sciences
A Systematic Review to Assess the Impact of Probiotics on Black Women

Jenesis Finks, Undergraduate Student, Social Sciences
Black Migration and Political Influence in Hawaiian History

Yajaira Fleming, Undergraduate Student, Social Sciences
Cultivating Critical Consciousness in Youth: A Rapid Review

Careen-Joan Franklin, Junior Faculty/ Lecturer/ Instructor, Translational & Clinical Sciences
A Review of Sublingual Buprenorphine and Naloxone Access in Community Pharmacies in an Urban Community

Omotola Gbadegesin, Graduate Student, Translational & Clinical Sciences
Synthesis and characterization of polymer-drug conjugates prepared by strain-promoted azide-alkyne cycloaddition-mediated step-growth polymerization

Sama Ghadiri Gargari, Graduate Student, Physical Sciences & Engineering
heological behavior of protein-enriched 3D-printed snacks from yellow pea

Hamid Ghaffari Nazarlou Graduate Student, Environmental Sciences & Studies
Prediction of membrane fouling using artificial neural network and genetic programming techniques

Nirvana Gomez, Undergraduate Student, Social Sciences
The Power of Clothes; How Black Activists Today Use Fashion as Rebellion

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Ameerah Graham, Undergraduate Student, Biological & Biomedical Sciences
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Selina Graham, Post Doc / Resident / Fellow / Research Associate, Social Sciences
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Jordan Gray, Undergraduate Student, Physical Sciences & Engineering
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Ankur Gyawali, Undergraduate Student, Biological & Biomedical Sciences
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Malachi Scott, Professional Student, Biological & Biomedical Sciences

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Arsema Zadu, Professional Student, Translational & Clinical Sciences

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Sesen Zerhamenet, Graduate Student, Biological & Biomedical Sciences

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