

Emerging Scholars

Shaping the Future



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The Leadership Alliance
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 Providence, RI 02912
 401-863-1474
www.theleadershipalliance.org

LEADERSHIP ALLIANCE
 NATIONAL SYMPOSIUM
 RESEARCH CONFERENCE
 Hartford Marriott & Convention Center
 Hartford, Connecticut
 July 26-28, 2019



Welcome to Hartford, CT and the 2019 Leadership Alliance National Symposium!



Welcome to the 2019 Leadership Alliance National Symposium!

The theme, *Emerging Scholars Shaping the Future*, will explore the intersection of scholarship and social justice. Research presentations and personal narratives from across the Leadership Alliance family will demonstrate how research from diverse perspectives generates new knowledge to inform policy and practice, addresses health disparities in marginalized communities, gives voice to the voiceless, and speaks truth to power.

The Leadership Alliance has been investing in emerging scholars for nearly three decades. This investment has resulted in over 500 alumni who have obtained a PhD or MD-PhD degree. We are proud of our Doctoral Scholars and have invited them back to share their stories as to how they are shaping the future as thought leaders in academia, the public and private sectors.

I hope that by the end of the symposium, you will have established a new network of mentors and peers, engaged in conversations about research, formulated strategies and identified resources to guide your academic and career paths. Most importantly, I hope you will have been empowered to consider how your research will have a transformative impact on social, environmental, economic and medical disparities.

You are the note on which our theme, *Emerging Scholars Shaping the Future*, is keyed. We are committed to investing in your journey for we believe that each of you is capable of expanding the intellectual discourse of your chosen field through your scholarship and research. I encourage you to see yourself as emerging scholars who will become the global leaders of tomorrow, poised to shape a bright and sustainable future for a prosperous society.

Have a great symposium and make it memorable!

SYMPOSIUM 2019 PLANNING COMMITTEE

Don Brunson (Chair)	Assistant Dean, Graduate School and Director, Enhancing Diversity in Graduate Education Program (VU-EDGE)
Earnestine Baker	Ret. Assistant to the Vice President, Institutional Advancement/ Executive Director of the Meyerhoff Scholarship Program University of Maryland, Baltimore County
Ja'Wanda Grant	Special Assistant to the Provost for Scholar Development and Institutional Alliances Xavier University of Louisiana
Amber Hodges	Associate Professor, Biopsychology Morgan State University
Pat Rea	Associate Director for Admissions University of Pennsylvania
Edgardo Sanabria-Valentin	Associate Program Director of PRISM, Pre-Med/Pre-Professional Advisor, Lead & Asst. Adjunct Professor John Jay College
Maria DoVale	Ex Officio Member Conference & Events Specialist Leadership Alliance Executive Office

LEADERSHIP ALLIANCE STAFF

Medeva Ghee	Executive Director
Chloe Poston	Associate Director
William Wittels	Manager of Undergraduate & Graduate Programs
Maria DoVale	Conference and Events Specialist
Barbara Kahn	Coordinator of Undergraduate Programs
Ashleigh LoVette	Project Assistant

Funding for the Leadership Alliance National Symposium has been provided by the National Institute of General Medical Sciences.



A Word From Our Committee Chair



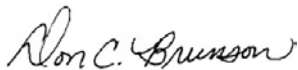
On behalf of the Symposium Planning Committee and both our Member and Associate Member institutions, we are thrilled that you have joined us at our annual conference for the advancement of post-doctoral, graduate and undergraduate scholars as well as faculty, administrators, staff, associated with the Alliance. This year's Symposium is the largest in the history of the event!

From the Wednesday-Thursday Career Development Workshop for graduate students and post-doctoral scholars, to the Thursday-Friday Grant Writing Coaching Groups for faculty members, and ending with the weekend Research Conference for undergraduate and graduate scholars, we have planned a symposium that will inspire participants to find new ways to contribute to our community of emerging and established scholars.

We encourage you to participate fully in Symposium. Please let us know how the events helped you and how we can improve them for future LANS participants.

Should you need anything during your time at the LANS, please do not hesitate to let us know. We hope that you have a positively productive experience with us, and we hope that this will be an unforgettable experience that allows us to benefit from your knowledge and presence.

Warm regards,



Don C. Brunson, Chair
Symposium Planning Committee



Academic Pathways Fellowship

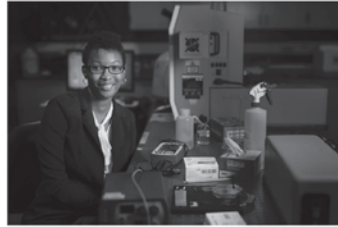
The Academic Pathways Fellowship is designed to prepare recent terminal-degree graduates for a tenure-track career. Fellows can be accepted from most disciplines at Vanderbilt. Fellows receive a \$60,000 stipend and \$20,000 research and professional development fund.

Applications open Oct. 1 2019 and close Nov. 1 2019.

Fellowship benefits include:

- Dedicated time and funds for research
- Robust Mentoring
- Programming for research and professional skill development
- Utilization of campus resources

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Emerging Scholars

Shaping the Future

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Join now!

Re-connect

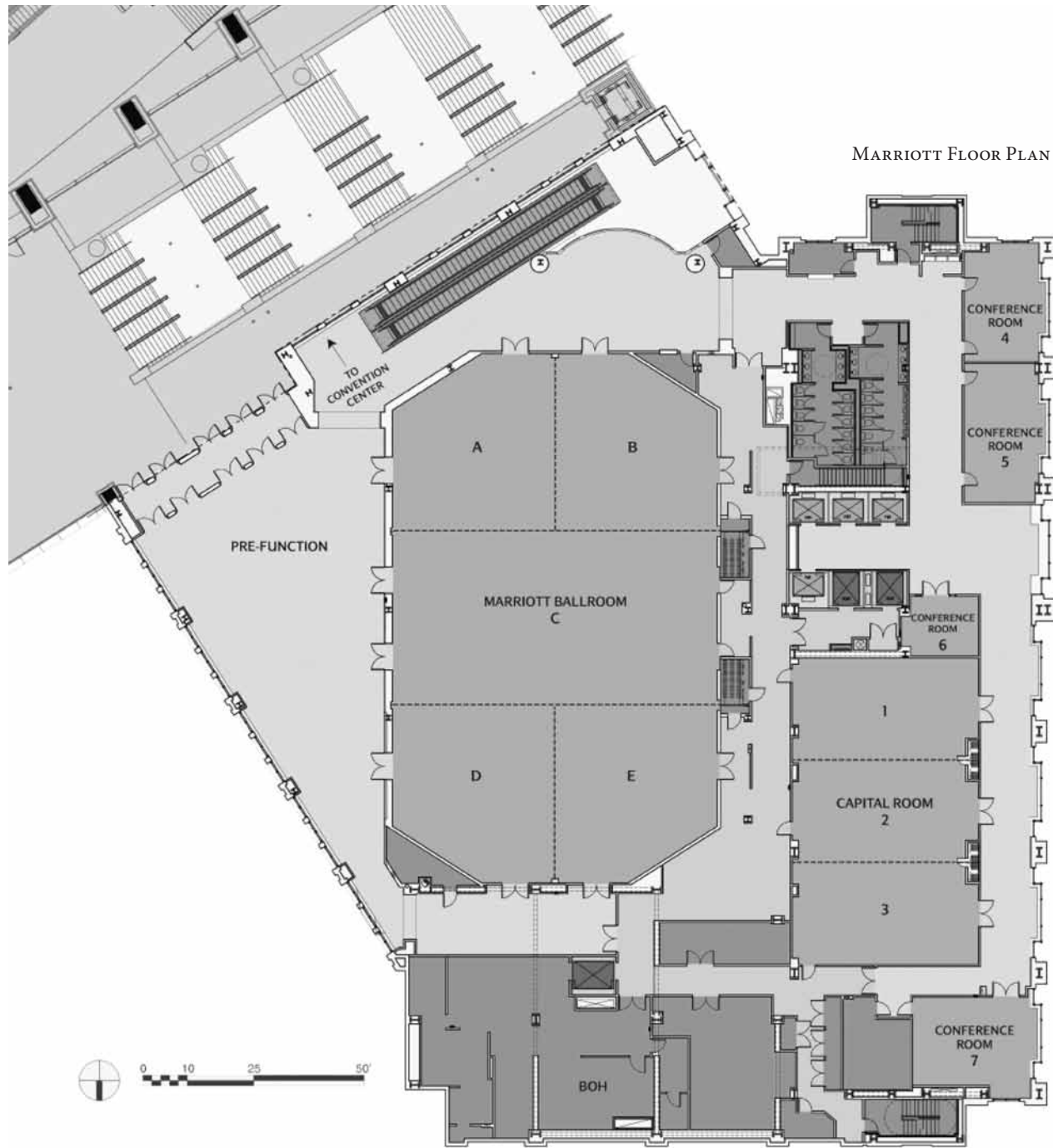


Give back

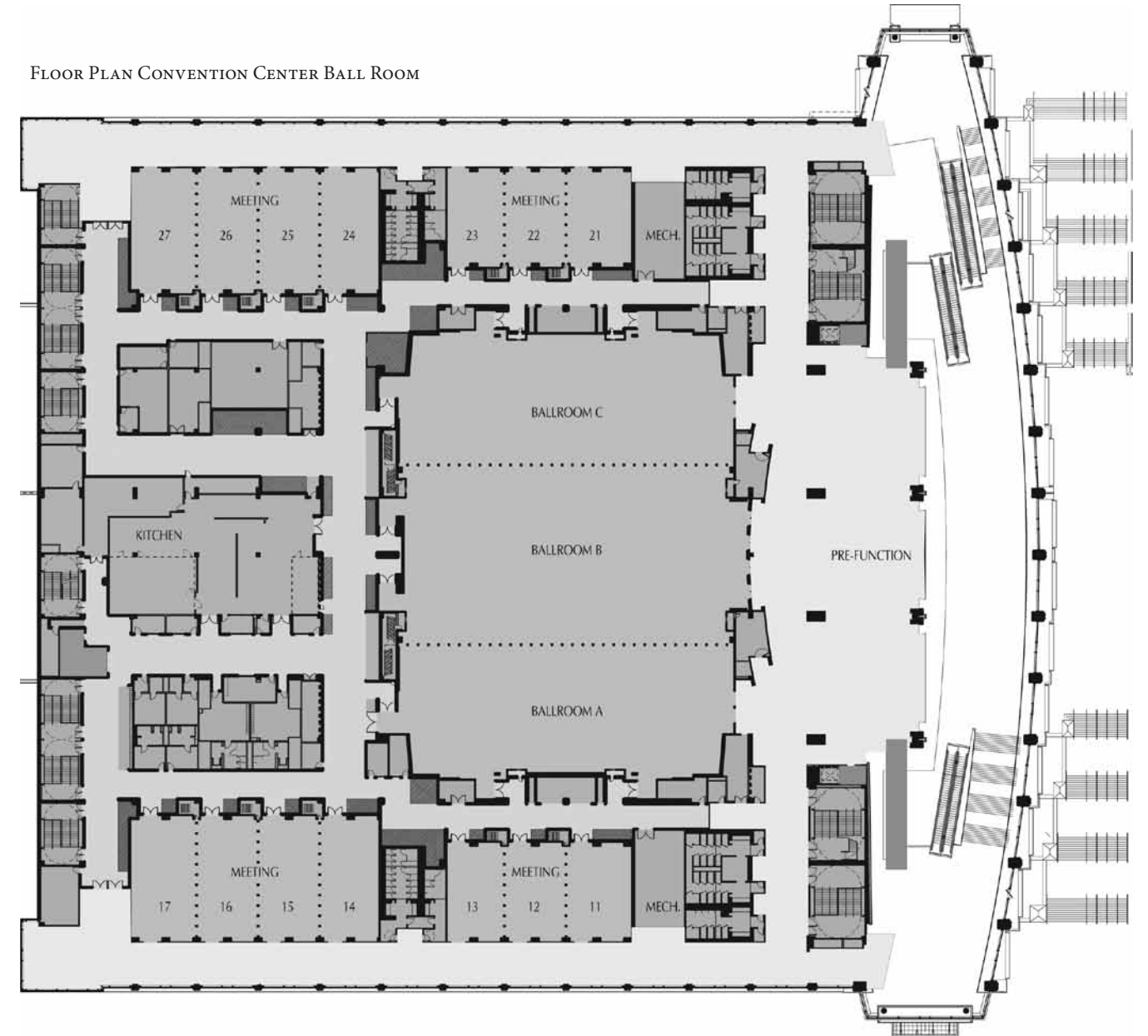
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FLOOR PLAN CONVENTION CENTER BALL ROOM



Symposium At-A-Glance

Friday	
Everyone	
11:00 AM - 5:00 PM	Registration
12:00 PM - 2:00 PM	Networking Lunch
2:00 PM - 3:00 PM	Break
6:30 PM - 9:00 PM	Open Plenary - Welcome Dinner
Undergraduate Sessions	
11:00 AM - 3:00 PM	Power Point Presentation Upload I
3:00 PM - 5:00 PM	Orientation/What is LANS? - Sessions by Discipline
5:00 PM - 6:00 PM	Graduate Research Fellowship Programs (GRFP) (This session is for Undergraduate Seniors, First and Second Year Graduate Students in STEM, Social Sciences, Psychology, Physics & Astronomy, Materials Research, Life Sciences, Geosciences)
5:30 PM - 6:30 PM	Power Point Presentation Upload II
9:30 PM - 10:30 PM	Power Point Presentation Upload III
Following Dinner	Student Poster Setup
Graduate Sessions	
3:30 PM - 4:30 PM	Moderator Training
5:00 PM - 6:00 PM	Graduate Research Fellowship Programs (GRFP) (This session is for Undergraduate Seniors, First and Second Year Graduate Students in STEM, Social Sciences, Psychology, Physics & Astronomy, Materials Research, Life Sciences, Geosciences)
Following Dinner	Reception (Sponsored by Regeneron)
Doctoral Scholars	
Following Dinner	Reception (Sponsored by Regeneron)
Administrators, Coordinators, Faculty & Guests	
Following Dinner	Reception (Sponsored by Regeneron)

Saturday	
Everyone	
7:00 AM - 8:30 AM	Breakfast Session by Participant Groups
8:45 AM - 10:45 AM	Student Poster Presentations
8:45 AM - 10:45 AM	Student Oral Presentations
9:00 AM - 5:00 PM	Registration
9:00 AM - 5:00 PM	Professional Headshots
11:00 AM - 12:45 PM	Student Oral Presentations
2:45 PM - 4:15 PM	Student Oral Presentations
4:20 PM - 4:40 PM	Break
4:45 PM - 6:00 PM	Student Oral Presentations
6:30 PM - 9:00 PM	Dinner & Keynote Speaker

Symposium At-A-Glance

9:30 PM - 12:00 AM	Dance
Undergraduate Sessions	
7:00 AM - 7:30 AM	Poster Setup
7:30 AM - 8:30 AM	Breakfast Session: Statement of Purpose - Applied & Basic BioSciences, Engineering, Physical Sciences & MD-PhD
7:30 AM - 8:30 AM	Breakfast Session: Statement of Purpose - Humanities & Social Sciences
1:00 PM - 2:30 PM	Lunch Session: Social Equity Through Science: Wallace Derricotte, Morehouse College
1:00 PM - 2:30 PM	Lunch Seession: Social Equity Through Scholarship: Tiffany Joseph, Northeastern University
06:15 PM	Group Photo - ONLY FYRE Students
06:30 PM	Group Photo - ONLY LAMI Students
Graduate Sessions	
7:30 AM - 8:30 AM	Breakfast Session: Career Connections: Opportunities in all Sectors
1:00 PM - 2:30 PM	Lunch Session: Microaggressions: Identifying the Problem & Being Part of the Solution
9:30 PM - 10:30 PM	Career Connections Reception at Marriott Restaurant (Hosted by Regeneron)
Doctoral Scholars	
7:30 AM - 8:30 AM	Breakfast Session: Leadership Alliance Community Meeting
1:00 PM - 2:30 PM	Lunch Session: Can We Talk? Difficult Conversations with Underrepresented People of Color
Administrators, Coordinators, Faculty & Guests	
7:30 AM - 8:30 AM	Breakfast Session: Leadership Alliance Community Meeting
1:00 PM - 2:30 PM	Lunch Session: Can We Talk? Difficult Conversations with Underrepresented People of Color
06:00 PM	Group Photo - Leadership Alliance Coordinators

Sunday	
Everyone	
10:00 AM - 11:00 AM	Closing Plenary & Keynote, Shekinah A. Fashaw, MSPH
11:00 AM - 1:00 PM	Recruiting Fair
1:00 PM - 2:00 PM	Lunch Pick Up at the Marriott
Undergraduate Sessions	
8:00 AM - 9:30 AM	Breakfast Session: The Graduate School Application - Sessions by Discipline
Graduate Student Sessions	
8:00 AM - 9:30 AM	Breakfast Session: Leadership Alliance Alumni Association Meeting
Doctoral Scholars	
8:00 AM - 9:30 AM	Breakfast Session: Leadership Alliance Alumni Association Meeting
Administrators, Coordinators, Faculty, Guests	
7:30 AM - 10:00 AM	Recruiting Fair Set-Up
8:00 AM - 9:30 AM	Breakfast in Undergraduate Sessions



AGENDA 2019

Friday, July 26

11:00 am – 5:00 pm

Conference Registration CTCC Esplanade

11:00 am – 3:00 pm

PowerPoint Upload Session I CTCC Ballroom Pre-Function

12:00 pm – 2:00 pm

Networking Lunch – Everyone CTCC Ballroom B

2:00 pm – 3:00 pm

The Leadership Alliance Interconnect: Mentoring for LANS & Beyond CTCC Ballroom Pre-Function
Doctoral Scholars and FYRE Students only

Undergraduates by Discipline:

3:00 pm – 3:30 pm Orientation [What is LANS?]

3:30 pm – 4:30 pm Funding Opportunities

4:30 pm – 5:00 pm Networking

Applied & Basic Biosciences CTCC Meeting Room 24-26

Eric Buckles, Program Coordinator and Associate Professor of Biology, School of Science, Technology, Engineering and Mathematics (STEM), Dillard University

Irene Hulede, Senior Manager, Education, American Society for Microbiology

Karina Gonzalez Herrera, Assistant Director of Diversity and Minority Affairs, Harvard University

Humanities & Social Sciences CTCC Meeting Room 21-22

Renita Miller, Associate Dean for Access, Diversity and Inclusion, Princeton University

Leislle Godo-Solo, Associate Director, Institute for Recruitment of Teachers

Natalie Strobach, Director of Undergraduate Research, Krieger School of Arts & Sciences, Johns Hopkins University

Engineering and Physical Sciences CTCC Meeting Room 23

Don C. Brunson, Assistant Dean, Graduate School and Director, Enhancing Diversity in Graduate Education Program, Vanderbilt University

Christine O'Brien, Ford Fellowship, The National Academy of Sciences, Engineering, and Medicine

Denise Ellis, Program Manager, Alfred P. Sloan Foundation Minority Graduate Scholarship Programs

Ja'Wanda Grant, Special Assistant to the Provost for Scholar Development and Institutional Alliances, Academic Affairs, Xavier University of Louisiana

3:30 pm – 4:30 pm

Moderator Training CTCC Meeting Room 11
William Wittels, Manager of Undergraduate & Graduate Programs, The Leadership Alliance

5:00 pm – 6:00 pm

Graduate Research Fellowship Programs (GRFP) CTCC Meeting Room 24-26
Jamel Love, PhD Candidate, American Politics/Methods, Rutgers University
(This session is for Undergraduate Seniors, First and Second Year Graduate Students in STEM, Social Sciences, Psychology, Physics & Astronomy, Materials Research, Life Sciences, Geosciences)

5:30 pm – 6:30 pm

PowerPoint Upload Session II CTCC Ballroom Pre-Function

Dinner > doors open at 6:30 pm

Open Plenary – Welcome Dinner CTCC Ballroom B

Medeva Ghee, Executive Director, The Leadership Alliance, Assistant Professor of the Practice of Behavioral and Social Sciences, Brown University

Speakers:

Damani Arnold Piggott, Assistant Dean for Graduate Biomedical Education and Graduate Student Diversity, Assistant Professor of Medicine

Travis Boyce, Associate Professor of Africana Studies, College of Humanities and Social Sciences, University of Northern Colorado

Raquel Castellanos, Assistant Director- Office of Research and Diversity Training Perelman School of Medicine, University of Pennsylvania

David Stout, Assistant Professor, Department of Mechanical & Aerospace Engineering, California State University, Long Beach

Following Dinner

Reception (*Sponsored by Regeneron*) City Side Lounge
Administrators, Coordinators, Doctoral Scholars, Faculty, Graduate Students, and Guests

Following Dinner – 10:30 pm

PowerPoint Upload Session III CTCC Ballroom Pre-Function

Saturday, July 27

7:00 am – 7:30 am

Poster Setup..... CTCC Ballroom A

Breakfast > served 7:00 am

Sessions conducted from 7:30 – 8:30 am

Undergraduate Breakfast: The Art of the Statement of Purpose

Applied & Basic Biosciences, Engineering, Physical Sciences, & MD-PhD CTCC Ballroom B
Marcus Lambert, Director of Diversity and Student Services, Graduate School of Medical Sciences, Weill Cornell Medicine
Michelle Nearon, Associate Dean for Graduate Student Development and Diversity, Director OGSDD, Yale University
Naoko Tanese, Associate Dean for Biomedical Sciences, Director, Sackler Institute of Graduate Biomedical Sciences, Professor, Department of Microbiology, New York University

Humanities & Social Sciences..... CTCC Ballroom C
Stephanie Parsons, Assistant Director of Diversity and Minority Affairs, Harvard University
Asabe Poloma, Assistant Dean for International Students & Associate Director of the Mellon Mays Undergraduate Fellows Program
Jennifer Rubenstein, Associate Professor of Politics, University of Virginia

Graduate Student Breakfast

NEW Career Opportunities in all Sectors Marriott A&B
Adriana Arita, Consultant at Prescient Healthcare Group
Heather Bennett, Assistant Professor of Biology, Bard College
Iris Wagstaff, STEM Program Director, American Association for the Advancement of Science
Marcus Jones, Senior Manager, Research Program Management, Regeneron Pharmaceuticals, Inc.

Leadership Alliance Community Meeting

Administrators, Coordinator, Doctoral Scholars, Faculty, and Guests Marriott C
Medeva Ghee, Executive Director, The Leadership Alliance, Assistant Professor of the Practice of Behavioral and Social Sciences, Brown University

8:45 am – 10:45 am

Student Poster Presentations CTCC Ballroom A and Prefunction Area

Student Oral Presentations Session I

Applied & Basic BiosciencesCTCC Meeting Rooms 11-14 and CTCC Meeting Rooms 25-27
 Humanities & Social Sciences..... CTCC Meeting Rooms 21-25
 Engineering, Earth Science & Physical Science..... Marriott Capital Rooms 1, 2, 3

9:00 am – 5:00 pm

Professional Headshots..... CTCC Ballroom Pre-Function
 Leadership Alliance Conference Registration CTCC Esplanade

11:00am - 12:45pm

Student Oral Presentations Session II

Applied & Basic Biosciences CTCC Meeting Rooms 11-17
 Humanities & Social Sciences..... CTCC Meeting Rooms 24-27
 Engineering, Earth Science & Physical Science.....Marriott Capital Rooms 1, 2, 3 and CTCC Meeting Rooms 21-23

Lunch > served 1:00 pm

Sessions conducted from 1:30 – 2:30 pm

Concurrent Sessions for Undergraduates

Social Equity Through Science CTCC Ballroom B
Undergraduates in Applied & Basic Biosciences, MD-PhD, Engineering, Earth Science & Physical Science
Speaker: Wallace Derricotte, Assistant Professor, Department of Chemistry, Morehouse College

Social Equity Through Scholarship..... CTCC Ballroom C
Undergraduates in Humanities & Social Science
Speaker: Tiffany D. Joseph, Associate Professor of Sociology, Northeastern University

NEW Microaggressions: Identifying the Problem & Being Part of the SolutionMarriott A&B
Graduate Students
Ruth Gotian, Assistant Dean for Mentoring & Chief Learning Officer, NY Presbyterian Hospital/Weill Cornell Medicine

Can we Talk? Marriott C
Administrators, Coordinator, Doctoral Scholars, Faculty, and Guests
Renita Miller, Associate Dean for Access, Diversity and Inclusion, Princeton University

2:45 pm – 4:15 pm

Student Oral Presentations Session III

Applied & Basic Biosciences CTCC Meeting Rooms 11-17
 Engineering, Earth Science & Physical Science..... CTCC Meeting Rooms 21-22
 Humanities & Social Sciences..... CTCC Meeting Rooms 23-27

Break > 4:20 pm – 4:40 pm

4:45 pm – 6:00 pm

Student Oral Presentations Session IV

Applied & Basic Biosciences CTCC Meeting Rooms 11-17 and 21
 Humanities & Social Sciences..... CTCC Meeting Rooms 21, 24-26

Leadership Alliance Photos for the Following Groups ONLY:
 (CTCC Carpeted Stairs on Exhibitor Level)

L.A. Coordinators 6:00 pm
 FYRE Students..... 6:15 pm
 LAMI Students..... 6:30 pm

Diner > doors open at 6:30 pm

7:00 pm – 9:00 pm

Dinner, Keynote Speaker CTCC Ballroom B
Angelino Viceisza, Associate Professor of Economics at Spelman College and a Research Associate of the National Bureau of Economic Research (NBER), Spelman College

Following Dinner

Graduate Student Career Connections (Sponsored by Regeneron)..... Marriott Restaurant

9:30 pm – Midnight

Dance..... CTCC Ballroom A

Sunday, July 28

7:30 am – 10:00 am

Exhibitors Set-up for Recruiting Fair CTCC Ballroom A

Breakfast > served 8:00 am

Sessions conducted from 8:30 – 9:30 am

Undergraduate Breakfast & Panels: The Graduate School Application Process

Applied & Basic Biosciences CTCC Ballroom B
Arnaldo Diaz, Assistant Dean for Research Training Programs, University of Pennsylvania
Vanessa Gonzalez Perez, Assistant Dean Diversity Initiatives in the Natural Sciences, Princeton University
Sheila Thomas, Assistant Professor of Medicine, Assistant Dean of Diversity and Minority Affairs for GSAS and DMS, Harvard University

MD-PhD..... CTCC Meeting Room 21-22
Fred Gorelick, Henry J. and Joan W. Binder Professor of Medicine (Digestive Diseases) and of Cell Biology; Deputy Director, Yale M.D., Ph.D. Program
Brian Sullivan, Executive Director of the Medical Scientist Training Program, Washington University in St. Louis
Naoko Tanese, Associate Dean for Biomedical Sciences, Director, Sackler Institute of Graduate Biomedical Sciences, Professor, Department of Microbiology, New York University
Megan Williams, Assistant Director Medical Scientist Training Program, Vanderbilt University

Humanities & Social Sciences..... CTCC Meeting Room 25-26
Joseph Brown, Associate Director Diversity and First-Gen Office, Stanford University
Celina Chatman Nelson, Associate Dean for Academic Diversity and Inclusion, Columbia University
Stephanie Parsons, Assistant Director of Diversity and Minority Affairs, Harvard University
Pat Rea, Associate Director at University of Pennsylvania, Graduate Division SAS, University of Pennsylvania

Engineering, Earth Science and Physical ScienceCTCC Meeting Room 24
Don C. Brunson, Assistant Dean, Graduate School and Director, Enhancing Diversity in Graduate Education Program, Vanderbilt University
Michelle Nearon, Associate Dean for Graduate Student Development and Diversity, Director OGSDD, Yale University

8:30 am – 9:30 am

Leadership Alliance Alumni Association MeetingCTCC Meeting Room 11
Past SR-EIP Participants, Graduate Students and Doctoral Scholars

10:00 am – 11:00 am

Closing Plenary & Keynote CTCC Ballroom B
Medeva Ghee, Executive Director, The Leadership Alliance, Assistant Professor of the Practice of Behavioral and Social Sciences, Brown University
Chloe Poston, Associate Director, The Leadership Alliance
Shekinah A. Fashaw, Doctoral Student in Health Services Research, Brown University School of Public Health

11:00 am – 1:00 pm

Recruiting Fair..... CTCC Ballroom A

1:00 pm – 2:00 pm

Lunch to Go..... Marriott Ballroom Pre-Function

KEYNOTE SPEAKERS

Dr. Angelino Viceisza & Shekinah A. Fashaw



Dr. Angelino Viceisza (pronounced: Vee-Say-Za) is an Associate Professor of Economics at Spelman College and a Research Associate of the National Bureau of Economic Research (NBER).

His research examines the microeconomics of poverty and wealth creation, particularly in developing countries. He has written papers on (1) the living conditions of the poor; (2) financial decision-making; and (3) entrepreneurship and innovation as pathways out of poverty. This work has taken place in Ethiopia, Peru, Senegal, the United States, and Vietnam among others.

Dr. Viceisza's research has been published in peer-reviewed journals such as Economic Inquiry, Experimental Economics, Journal of Development Economics, Journal of Economic Behavior and Organization, and Small Business Economics. This work has been supported by agencies such as the German Federal Ministry for Economic Cooperation and Development, the Kauffman Foundation, the National Science Foundation (NSF), the Sloan Foundation, USAID, the US Department of Education, and the World Bank.

During the 2015-16 academic year, Dr. Viceisza visited the Economics Department at Duke University and in 2014, he visited the Research Department at the Federal Reserve Bank of Boston as a Fellow of the American Economic Association (AEA). From 2013-16, Dr. Viceisza was a Fellow of the Diversity Initiative for Tenure in Economics (DITE) which is primarily coordinated by the Research Network on Racial and Ethnic Inequality at Duke University. He currently serves on the Board of the National Economic Association (formerly, the Caucus of Black Economists) and is a member of the AEA's Task Force charged with improving outreach to students from underrepresented groups at the high school and undergraduate levels.

Dr. Viceisza obtained his Ph.D. in economics from Georgia State University. He also holds two Masters in economics, one from Georgia State and one from Boston University; an MBA in international business from Temple University; and a Bachelor's degree in accounting from the University of the Netherlands Antilles (now, University of Curaçao).



Shekinah Fashaw is a third-year doctoral student in health services research at Brown University with research interests in racial- ethnic- disparities, and long-term care for older adults. She serves as a researcher on several individual and collaborative research projects and papers within and beyond the Brown community. Shekinah is a graduate of the University of Central Florida, where she received her Bachelors in 2015, and the University of North Carolina at Chapel Hill where she was conferred a Master's in Health Policy and Management in 2017. Shekinah is an active member of the Brown University community. She is proud to serve as the president of the Samuel M. Nabrit

Black Graduate Student Association, the Chair of Student Life for the Graduate Student Council, and a Co-Coordinator for the Graduate Students of Color Orientation. Shekinah is also highly involved with AcademyHealth, a national organization for health service and health policy researchers. She was recently selected to serve on the AcademyHealth Board of Directors as a student member.

Shekinah is a passionate scholar who is always hoping to share knowledge beyond the ivory tower. Shekinah is a 3-MinuteThesis competition winner, has served as a plenary conference speaker, and has had multiple poster presentations, but what she is most proud of is what she has been able to accomplish outside of academia. When not caught up in the world of academia, Shekinah is an author, youth pastor, young adults' empowerment conference host, and entrepreneur. Shekinah strongly believes that there is power within each and every one of us to do "exceedingly and abundantly above all that we can imagine." And since she believes it, she lives by it and wants others to do the same.

Oral Presentations by Name

Abdul-Rashid, Hameed **12:00 PM, CC- 21**
Understanding the Articulated Motions of Parts within 3D Shapes and Scenes
 Research Mentor: Daniel Ritchie
 Research Institution: Brown University
 Home Institution: University of Southern Mississippi
 Co-Authors: Daniel Ritchie, Brown University
PS

Abdullah, Idri **11:15 AM, CC- 17**
Expression & Purification of Malaria Proteins for Functional Assays & Antibody Generation
 Research Mentor: Bjorn Kafsack
 Research Institution: Weill Cornell Graduate School
 Home Institution: University of Maryland-College Park
 Co-Authors: Leen Vanheer and Björn Kafsack, Weill Cornell Medical College
BB

Acuña, Jorge **11:30 AM, CC- 17**
Detection of Mouse Hepatitis Virus RNA in Infected Macrophages
 Research Mentor: Susan Weiss
 Research Institution: University of Pennsylvania
 Home Institution: SUNY at Purchase College
 Co-Authors: Susan Weiss and Courtney Comar, University of Pennsylvania
BB

Addi, Asante **10:00 AM, CC- 22**
"De Nigger Woman Is De Mule Uh De World:" The Impossibility of a Black Woman Bildungsroman
 Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: The Community College of Baltimore County
 Co-Authors: Natalie Strobach, Johns Hopkins University
HU

Adjangba, Christine **9:45 AM, CC-26**
Investigating Genetic Susceptibility to Tobacco Smoking at rs16969968 based on Age at Onset of Regular Smoking
 Research Mentor: Luke Evans
 Research Institution: University of Colorado Boulder
 Home Institution: Duke University
 Co-Authors: Luke Evans and Marissa Ehringer, University of Colorado Boulder
BB

Akande, Benjamin..... **11:30 AM, CC- 13**
Investigating the Effects of Alpha-2 Adrenergic Receptor Agonism on CRF Positive and Negative Cell Populations in the Bed Nucleus of the Stria Terminalis
 Research Mentor: Danny Winder
 Research Institution: Vanderbilt University
 Home Institution: The University of Texas at Dallas
 Co-Authors: Danny Winder and Jordan Brown, Vanderbilt University
BB

Presentation Categories Key		EN	Engineering	PE	Policy & Ethics
AB	Applied Biosciences <i>Molecular Processes and Genetics, Biochemistry</i>	ES	Earth Science <i>Environment Sciences, Geosciences, Marine Sciences</i>	PS	Physical Science <i>Chemistry, Math, Physics, Computer Sciences, Computer Engineering</i>
BB	Basic Biosciences <i>Human Biology & Disease, Public Health, Biomedical Engineering</i>	HU	Humanities <i>Literature, Language Arts, History, Media</i>	SS	Social Science <i>Sociology, Economics, Psychology, and Behavior Sciences</i>

Aklilu, Ouniol 03:30 PM, CC- 11*Imaging of Bacterial Infection with [11C] Trimethoprim (TMP)*

Research Mentor: Mark Sellmyer
 Research Institution: University of Pennsylvania
 Home Institution: Pennsylvania State University-Main Campus
 Co-Authors: Mark Sellmyer, University of Pennsylvania
BB

Alba, Ana 11:30 AM, CC- 21*Tunable Radio Frequency Components Using Reconfigurable Liquids*

Research Mentor: Dimitra Psychogiou
 Research Institution: University of Colorado Boulder
 Home Institution: University of Wisconsin-Madison
 Co-Authors: Dimitra Psychogiou and Andrea Ashley, University of Colorado Boulder
EN

Aleshe, Bamidele 10:30 AM, CC-23*Women's Cardiovascular Health in Low- and Middle-Income Countries: The Influence of Gender Along the Spectrum of Health and Disease*

Research Mentor: Rajesh Vedanthan
 Research Institution: New York University
 Home Institution: University of California-Los Angeles
 Co-Authors: Rajesh Vedanthan and Deborah Onakomaiya, New York University
SS

Alicea-Pauneto, Coral del Mar 04:45 PM, CC- 15*IMPDH2 Rods and Rings (RRs) Characterization on Pontocerebellar Hypoplasia Type 6 Patients Cells*

Research Mentor: Marco Flores
 Research Institution: University of Pennsylvania
 Home Institution: University of Puerto Rico-Humacao
 Co-Authors: Naiara Aquizu Lopez and Marco Lopez, University of Pennsylvania
AB

Allick, Aliyah..... 8:45 AM, CC-26*The Neural Mechanisms Underlying Nicotine Withdrawal*

Research Mentor: Daniel McGehee
 Research Institution: University of Chicago
 Home Institution: Johns Hopkins University
 Co-Authors: Daniel McGehee, Alexis Monical and Rossteen Mansouri-Rad, University of Chicago
AB

Almodovar, Nickolas..... 11:30 AM, CC- 14*Automated nuclear detection based on a generalized Laplacian of Gaussian model in cardiac tissue*

Research Mentor: Jeffrey Saucerman
 Research Institution: University of Virginia
 Home Institution: CUNY John Jay College of Criminal Justice
 Co-Authors: Jeffrey Saucerman and Cody Narciso, University of Virginia
AB

Amadi, Racquel..... 9:00 AM, CC- 11*Quantifiable Pain Scoring Through High-Speed Videography*

Research Mentor: Ishmail Abdus-Saboor
 Research Institution: University of Pennsylvania
 Home Institution: Xavier University of Louisiana
 Co-Authors: Jessica Jones and Ishmail Abdus-Saboor, University of Pennsylvania
BB

Anderson, Grace 04:45 PM, CC- 21*Neural Indicators of Social and Emotion Regulation*

Research Mentor: Bethany Teachman
 Research Institution: University of Virginia
 Home Institution: Wake Forest University
 Co-Authors: Sara Medina-DeVilliers, Nauder Namaky, James A. Coan and Bethany A. Teachman, University of Virginia
AB

Anderson, Jessica 11:15 AM, CC- 12*How Metal Transporters Contribute to Levels of Manganese in the Body*

Research Mentor: Thomas Bartnikas
 Research Institution: Brown University
 Home Institution: Xavier University of Louisiana
 Co-Authors: Milankumar Prajapati, Courtney J. Mercadante, Heather L. Conboy and Thomas B. Bartnikas, Brown University
AB

Antwi, Nana 05:15 PM, CC- 15*Conformational Analysis of Alpha-Synuclein Core Using Two-dimensional Infrared Spectroscopy (2D IR)*

Research Mentor: Lars Plate
 Research Institution: Vanderbilt University
 Home Institution: Cornell University
 Co-Authors: Lars Plate, Lauren Buchanan and Amada Cao, Vanderbilt University
BB

Arabic, Bethany 05:00 PM, CC- 16*Novel Assays to Test Treatments for Visual Disorders*

Research Mentor: Robbert Creton
 Research Institution: Brown University
 Home Institution: Simmons College
 Co-Authors: Robbert Creton and Sara Tucker, Brown University
BB

Armstead II, Travis..... 12:00 PM, CC- 26*Is There a Great Divide Between the Television Consumption of Generation X and Millennials?*

Research Mentor: Robert Y. Shapiro
 Research Institution: Columbia University
 Home Institution: Claflin University
 Co-Authors: Robert Y. Shapiro and Viviana Rivera-Burgos, Columbia University
SS

Arnold, Destiny..... 11:15 AM, CC- 15*Contribution of SHP-1 Signaling to Sepsis-Induced Changes in Macrophage Function*

Research Mentor: Alfred Ayala
 Research Institution: Brown University
 Home Institution: Rhode Island College
 Co-Authors: Chun-Shiang Chung, Myles Bartholomew and Alfred Ayala, Brown University
AB

Asencio, Viangely 03:00 PM, CC- 25*Oh, You a Project Baby? The Public and Private Spheres of Public Housing*

Research Mentor: Shamus Khan
 Research Institution: Columbia University
 Home Institution: Connecticut College
 Co-Authors: Shamus Khan, Columbia University
SS

Askari, Kasra 11:45 AM, CC- 13*The Alternative Role of Beta-Lactamases in Mycobacterial Cell Wall Maintenance*

Research Mentor: Landys Lopez-Quezada
 Research Institution: Weill Cornell Medical College
 Home Institution: San Diego Mesa College
 Co-Authors: Landys Lopez Quezada, Weill Cornell Medical College
BB

Azziz, Annabel 11:30 AM, CC- 16*Nuclear Localization and Clustering of Transcription Factors in Embryonic Stem Cells*

Research Mentor: Eftychia Apostolou
 Research Institution: Weill Cornell Graduate School
 Home Institution: Fordham University
 Co-Authors: Abderhman Abushashem, Weill Cornell Medical College; Eftychia Apostolou, Weill Cornell Graduate School
BB

Babatunde, Josephine 12:00 PM, CC- 12*Interleukin 13 Alters Innate Responses In Esophageal Epithelial Cell Barrier Function*

Research Mentor: Kathleen Sullivan
 Research Institution: University of Pennsylvania
 Home Institution: Union County College
 Co-Authors: Margaret C. Carroll, Kelly Maurer, Jonathan M. Spergel, Kathleen E. Sullivan and Melanie A. Ruffner, University of Pennsylvania
BB

Bailer, Peter 11:15 AM, CC- 13*The Molecular Basis for Discrimination of DNA and RNA by the Mutator Enzyme APOBEC3A*

Research Mentor: Rahul Kohli
 Research Institution: University of Pennsylvania
 Home Institution: University of Maryland-Baltimore County
 Co-Authors: Rahul Kohli and Kiara Berrios, University of Pennsylvania
BB

Bailey, Johnathan..... 11:00 AM, CC- 16*The Uptake and Handling of Iron in Alveolar Epithelial Cells*

Research Mentor: Julie Bastarache
 Research Institution: Vanderbilt University
 Home Institution: University of Alabama at Birmingham
 Co-Authors: Nathan Putz and Julie Bastarache, Vanderbilt University
BB

Bak, Taylor 03:00 PM, CC- 23*Lateral Occipital Cortex (LOC) Activation in Infants Exploring Static and Dynamic Visual Stimuli Using fNIRS*

Research Mentor: Taylor Bak
 Research Institution: Princeton University
 Home Institution: University of Miami
 Co-Authors: Lauren Emberson and Annie Schwartzstein, Princeton University
SS

Ballenger, Jasiah..... 10:45 AM, CC-24*This is Not US: Considering the First Amendment in the Media's Misrepresentation of Black/African American Activists*

Research Mentor: Sarah Hernandez
 Research Institution: Xavier University of Louisiana
 Home Institution: Claflin University
 Co-Authors: Sarah Hernandez, Xavier University of Louisiana
HU

Banks, Makaila..... 02:45 PM, CC- 12*Whole-Brain Monosynaptic Rabies Tracing of VTA Glutamate-GABA Neuron Inputs*

Research Mentor: David Root
 Research Institution: University of Colorado Boulder
 Home Institution: University of Rochester
 Co-Authors: Elizabeth Phillips, Dillon McGovern and David Root, University of Colorado Boulder
BB

Barnes, Halee 03:30 PM, CC- 24*Rediscovering Anne Cooke; The Backbone for Spelman Theatre*

Research Mentor: Holly Smith
 Research Institution: Spelman College
 Home Institution: Claflin University
 Co-Authors: Holly Smith, Spelman College
HU

Barra, Nicolas..... 12:00 PM, CC- 16*Improving Unsupervised Circadian Data Ordering*

Research Mentor: Ron Anafi
 Research Institution: University of Pennsylvania
 Home Institution: University of Pennsylvania
 Co-Authors: Ron Anafi, University of Pennsylvania
BB

Bauer, Morgan 03:15 PM, CC- 13

AAV miR-138 injections into the medial habenula reduce nicotine consumption in C57Bl/6J mice

Research Mentor: Marissa Ehringer
 Research Institution: University of Colorado Boulder
 Home Institution: Rochester Institute of Technology
 Co-Authors: Marissa Ehringer, University of Colorado Boulder

BB**Bishop, Leah..... 11:30 AM, CC- 27**

An Examination of White and Minority Women's Opinion on Reproductive Rights

Research Mentor: Robert Shapiro
 Research Institution: Columbia University
 Home Institution: Xavier University of Louisiana
 Co-Authors: Robert Shapiro and Viviana Rivera-Burgos, Columbia University

SS**Bistis, Britt 04:00 PM, CC- 12**

Optical Dissection of Synaptic Plasticity Ex Vivo in the Hippocampus of Mouse Models of Autism

Research Mentor: Inbal Israely
 Research Institution: Columbia University
 Home Institution: Yale University
 Co-Authors: Weiqun Fang, Alexandra Panzarino and Inbal Israely, Columbia University

BB**Borjas, Maria 05:30 PM, CC- 25**

Measuring the Impact of Intergroup Education

Research Mentor: Hazel Markus
 Research Institution: Stanford University
 Home Institution: University of Houston
 Co-Authors: Hazel Markus, Rachel Song and Amrita Maitreyi, Stanford University School of Humanities & Sciences

SS**Borum, Elizabeth..... 11:00 AM, CC- 17**

The Newt Commute: Mapping the Spatiotemporal Distribution of Megalobatrachonema moravecii Infection in Taricha torosa and Taricha granulosa

Research Mentor: Pieter Johnson
 Research Institution: University of Colorado Boulder
 Home Institution: Agnes Scott College
 Co-Authors: Pieter Johnson and Dana Calhoun, University of Colorado Boulder

BB**Bousso, Ismael 10:00 AM, CC- 14**

Mechanism of Sensitization of Cancer Cells to Killing by Cell Death Targeting Therapeutics

Research Mentor: Wafik El-Deiry
 Research Institution: Brown University
 Home Institution: Morgan State University
 Co-Authors: Wafik El-Deiry and Aakash Jhaveri, Brown University

AB**Bowers, Sarah 10:15 AM, Captial Room 3**

Swift-BAT Detected Active Galactic Nuclei Study with Hubble Space Telescope Images to Evaluate the Correlation Between Nuclear Dust Lanes and X-ray Obscuration

Research Mentor: Meg Urry
 Research Institution: Yale University
 Home Institution: University of Maryland-Baltimore County
 Co-Authors: Meg Urry, Yale University

PS**Bridges, Kamiya..... 11:00 AM, CC- 14**

Examination of Lung Injury in a New Model of Necrotizing Enterocolitis

Research Mentor: Kaylon Bruner-Tran
 Research Institution: Vanderbilt University
 Home Institution: Winston-Salem State University
 Co-Authors: Kaylon Bruner-Tran and Jelonia Rumph, Vanderbilt University

AB**Broad, Arianna..... 9:15 AM, CC-27**

Investigating Substrate Specificity and Crucial Residues of an Insect Gustatory Receptor

Research Mentor: Rachelle Gaudet
 Research Institution: Harvard University
 Home Institution: Florida State University
 Co-Authors: Heather Frank and Rachelle Gaudet, Harvard University

BB**Brooks, Jacob 04:00 PM, CC- 14**

Blocking the Bone Destructive Phenotypes of Osteosarcomas Through Gli2 Inhibition

Research Mentor: Julie Rhoades
 Research Institution: Vanderbilt University
 Home Institution: Howard University
 Co-Authors: Erik Beadle and Julie Rhoades, Vanderbilt University

BB**Buchanan, Solana..... 12:15 PM, Captial Room 1**

West African Climate Change across the Plio-Pleistocene Boundary

Research Mentor: James Russell
 Research Institution: Brown University
 Home Institution: Rice University
 Co-Authors: Bryce Mitsunaga, Timothy Herbert and James Russell, Brown University

ES**Caballero, Aldo 05:45 PM, CC- 26**

Ideal Affect and Its Influence on Behavior

Research Mentor: Jeanne Tsai
 Research Institution: Stanford University
 Home Institution: Santa Clara University
 Co-Authors: Jeanne Tsai, Stanford University School of Humanities & Sciences

SS**Caldwell, Benjamin..... 12:15 PM, CC- 21**

Formal Mathematics in Idris

Research Mentor: Stuart Kurtz
 Research Institution: University of Chicago
 Home Institution: New College of Florida
 Co-Authors: Stuart Kurtz, University of Chicago

PS**Calle, Estefani 02:45 PM, CC- 25**

"Pruebatelo:" Pop Culture Representations of the Latina Mother as a Mammy Figure and Jezebel in U.S.

Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: The Community College of Baltimore County
 Co-Authors: Natalie Strobach, Johns Hopkins University

HU**Cancel Vargas, Kimberly 02:45 PM, CC- 26**

Understanding Why We Gossip

Research Mentor: Meltem Yucel
 Research Institution: University of Virginia
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Authors: Meltem Yucel, University of Virginia

SS**Carbajal, Nathan 12:30 PM, CC- 25**

The Neoliberal WASP: Theorizing Assimilation Under Neoliberalism

Research Mentor: Tony Tian-Ren Lin
 Research Institution: University of Virginia
 Home Institution: California State University-Long Beach
 Co-Authors: Tony Lin, University of Virginia

SS**Carlo Frontera, Zaibeth 11:30 AM, Captial Room 1**

Using Dynamical Downscaling on Climate Models to Study the Formation and Development of Super Typhoons in the North Pacific Ocean

Research Mentor: Kristopher Karnauskas
 Research Institution: University of Colorado Boulder
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Authors: Kristopher Karnauskas and Ho-Hsuan Wei, University of Colorado Boulder

ES**Carrillo, Elizabeth 05:15 PM, CC- 26**

Understanding How Teacher Race and Culturally Responsive Practices Relate to Student Externalizing Behaviors

Research Mentor: Catherine Bradshaw
 Research Institution: University of Virginia
 Home Institution: DePaul University
 Co-Authors: Catherine Bradshaw, University of Virginia

SS**Carter, Davell 8:45 AM, CC- 11**

Role of Exosomes in Morphine Induced Behavioral Sensitization

Research Mentor: Julie Blendy
 Research Institution: University of Pennsylvania
 Home Institution: Jackson State University
 Co-Authors: Julie Blendy, Darrell Eacret and Jessica Liu, University of Pennsylvania

BB**Chai, Dan 11:15 AM, CC- 27**

Asian Men in Dating Hierarchies: Connecting Asian Identity Development to Dating Preferences

Research Mentor: Van Tran
 Research Institution: Columbia University
 Home Institution: Washington University in St Louis
 Co-Authors: Van Tran, Columbia University

SS**Chappel, Jessie 12:30 PM, CC- 15**

The Effect of Ribosome Concentration on RNase L Activity In Vitro

Research Mentor: Alexei Korennykh
 Research Institution: Princeton University
 Home Institution: Greenville College
 Co-Authors: Alexei Korennykh and Eliza Prangley, Princeton University

BB**Chavez, Goretty 12:30 PM, CC- 26**

The Relationship Between Neuroticism and Approach/Avoidance Behavior

Research Mentor: Bethany Teachman
 Research Institution: University of Virginia
 Home Institution: Wellesley College
 Co-Authors: Nauder Namaky and Bethany A. Teachman, University of Virginia

SS**Cheng, Karli 9:45 AM, CC-24**

The Relationship Between Positive Parenting Behaviors and Preschoolers' Emotion Regulation in Low-Income Families

Research Mentor: Khara Turnbull
 Research Institution: University of Virginia
 Home Institution: California State Polytechnic University-Pomona

Co-Authors: Khara Turnbull, University of Virginia

SS**Cheng, Timothy 9:00 AM, Captial Room 1**

Optimizing Thin Layer PbZr0.2Ti0.8O3 Crystals by Imaging Ferroelectric Domain Switching

Research Mentor: Fred Walker
 Research Institution: Yale University
 Home Institution: Calvin College
 Co-Authors: Yeongjae Shin and Fred Walker, Yale University

PS

Chennareddy, Sumanth 03:30 PM, CC- 27

Does Adjusting for Outdoor Ambient Particulate Matter 2.5 (PM 2.5) Concentrations Influence the Measured Impact of a Federal Smoke-Free Housing Policy on Second-Hand Smoke Incursions in New York City Public Housing?

Research Mentor: Lorna Thorpe
 Research Institution: New York University
 Home Institution: Vanderbilt University
 Co-Authors: Elle Anastasiou and Lorna Thorpe, New York University

SS**Clare, Maia 12:00 PM, CC- 17**

Investigating the Evolutionary Relationship Between RD Retroviruses and Their Deeply Conserved Target Receptor

Research Mentor: Cedric Feschotte
 Research Institution: Cornell University
 Home Institution: Purdue University-Main Campus
 Co-Authors: John Frank and Cedric Feschotte, Cornell University

BB**Clark, Kaitlin..... 10:30 AM, CC- 12**

Copy Number Inference In Tumors Using Hidden Markov Models

Research Mentor: Benjamin Raphael
 Research Institution: Princeton University
 Home Institution: Washington University in St Louis
 Co-Authors: Ben Raphael and Gryte Satas, Princeton University

BB**Coleman, Carly 02:45 PM, CC- 23**

Examining Differences in Summer Learning Loss in the First Two Years of Education Across Ethnicity and Socioeconomic Status

Research Mentor: Anita McGinty
 Research Institution: University of Virginia
 Home Institution: University of Kentucky
 Co-Authors: Anita McGinty, University of Virginia

SS**Collins , Aliyah 9:00 AM, CC-25**

Morrison's Tree of Life: Establishing Environmental Interventions Through the Eco-Spiritual Interactions of Black Women in Toni Morrison's Beloved

Research Mentor: Jonathan Collins
 Research Institution: Brown University
 Home Institution: Fisk University
 Co-Authors: Jonathan Collins and Andre Willis, Brown University

HU**Colón Ríos, Rebecca..... 03:45 PM, CC- 16**

Examining the Role of TLR7 Signaling in Modulating Clostridium Difficile Toxin Mediated Damage to the Intestinal Epithelium

Research Mentor: Michael Abt
 Research Institution: University of Pennsylvania
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Authors: Rebecca I. Colón Ríos, Emily Cribas, Nawar Naseer and Michael Abt, University of Pennsylvania

AB**Cordero-Cruz, Rosa 03:15 PM, CC- 25**

Rape, Estupro, or Rapto: Colonization and Sexual Violence from Late Nineteenth to Early Twentieth Century Puerto Rico

Research Mentor: Daniel Rodriguez
 Research Institution: Brown University
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Daniel Rodriguez, Brown University

HU**Crusius, Helena..... 03:45 PM, CC- 25**

The Playful Space: Insult and Fantasy in Aristophanes and Plato

Research Mentor: Ralph Rosen
 Research Institution: University of Pennsylvania
 Home Institution: Bryn Mawr College
 Co-Authors: Ralph Rosen, University of Pennsylvania

HU**Cruz, Ángel..... 9:45 AM, CC- 14**

Theranostic Assessment of Radiolabeled Trametinib via Ferumoxylol Nanoparticles for Metastatic Pulmonary Cancer and Melanoma

Research Mentor: Edwin Pratt
 Research Institution: Weill Cornell Medical College
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Edwin Pratt, Evan Stater and Jan Grimm, Weill Cornell Medical College

AB**Cruz, Diana..... 03:45 PM, CC- 12**

Investigating the Mechanisms that Regulate the Onset of Trunk Neural Crest Cell Migration in Zebrafish Embryos

Research Mentor: Victoria Prince
 Research Institution: University of Chicago
 Home Institution: University of Pennsylvania
 Co-Authors: Victoria Prince, Manuel Rocha, Noor Singh and Elaine Kushkowsky, University of Chicago

BB**Cruz, Elizabeth..... 9:45 AM, CC- 22**

The History of 19th Century Confederate Monuments and Contemporary Attitudes Towards Them Today

Research Mentor: Paul Testa
 Research Institution: Brown University
 Home Institution: DePaul University
 Co-Authors: Paul Testa and Juliet Hooker, Brown University

SS**Dahan, Natalie 03:15 PM, CC- 23**

The SUN Test of Vision: Investigation in Healthy Volunteers and Comparison to the Mobile Universal Lexicon Evaluation System (MULES)

Research Mentor: Laura Balcer
 Research Institution: New York University
 Home Institution: California State University-Northridge
 Co-Authors: Laura Balcer, New York University

SS**Dalgarno, Carol 8:45 AM, CC- 12**

Angiopoietin-2 Expression and Function on Tie2 Signaling in Pancreatic Neuroendocrine Tumors

Research Mentor: Minah Kim
 Research Institution: Columbia University
 Home Institution: Wesleyan University
 Co-Authors: Helen Remotti and Minah Kim, Columbia University

BB**Dasta Cruz, Carolina..... 03:15 PM, CC- 17**

Functional dissection of a hypothalamic striatal projection

Research Mentor: Annegret L. Falkner
 Research Institution: Princeton University
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Annegret Falkner, Stefan Oline and Tomohito Minakuchi, Princeton University

BB**Davies, Biobebe 02:45 PM, CC- 22**

A Comparison of Methods For Quantifying Muscle Fiber Cross-Sectional Area

Research Mentor: George Christ
 Research Institution: University of Virginia
 Home Institution: University of Maryland-College Park
 Co-Authors: Sarah Dyer and George Christ, University of Virginia

EN**Delgado, Daniel 9:00 AM, CC- 12**

Race, Diaspora, Labor: Transnational Encounters in the Greater Caribbean

Research Mentor: Frank Guridy
 Research Institution: Columbia University
 Home Institution: Amherst College
 Co-Authors: Frank Guridy, Columbia University

HU**Deljookorani, Shiva 10:30 AM, CC- 13**

Hight Content Screening for Investigating Fatty Acid-Mediated Epigenetic Reprogramming in Melanoma

Research Mentor: Ting-Hsiang Huang
 Research Institution: Weill Cornell Medical College
 Home Institution: University of Maryland-Baltimore County
 Co-Authors: Ting-Hsiang Haung and Richard White, Weill Cornell Medical College

BB**Dews, Taylor 10:30 AM, CC- 21**

“My Name Isn’t Hyper-Sexualized Jezebel.” An Analysis of Spike Lee’s Appropriation of the White Male Gaze in She’s Gotta Have It

Research Mentor: Taylor Dews
 Research Institution: Johns Hopkins University
 Home Institution: Spelman College
 Co-Authors: Natalie Strobach, Johns Hopkins University

HU**Diano, Alexa 11:45 AM, CC- 16**

Optimizing Immune Cell Metabolism for Growth and Function

Research Mentor: Gregory Szeto
 Research Institution: University of Maryland, Baltimore County
 Home Institution: Rowan University
 Co-Authors: Gregory Szeto, Jonathan Linton, Leah Croucher, Govind Rao and Xudong Ge, University of Maryland, Baltimore County

AB**DiGiacomo-Castillo, Maximino..... 03:45 PM, CC- 21**

Cryptocurrencies: Research Perspectives and Implementation Techniques

Research Mentor: John C. Mitchell
 Research Institution: Stanford University
 Home Institution: Passaic County Community College
 Co-Authors: Marc Yeung, Columbia University

PS**Dixon, Alaina 10:15 AM, CC- 22**

“I am the Whore and the Holy One:” The Exploration of Black Female Identity in Julie Dash’s Daughter’s of the Dust

Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: Claflin University
 Co-Authors: Natalie Strobach, Johns Hopkins University

HU**DoVale, Gabrielle 8:45 AM, CC- 22**

What’s Missing? Race, Gender, and Prohibition in Early 20th Century Virginia

Research Mentor: Lindsey Jones
 Research Institution: Brown University
 Home Institution: University of Rhode Island
 Co-Authors: Lindsey Jones, Brown University

HU**Drummond, Justin 03:00 PM, CC- 22**

Particle Collection Mechanism for Dusty Plasma Chamber

Research Mentor: Carlos Romero-Talamas
 Research Institution: University of Maryland, Baltimore County
 Home Institution: Howard University
 Co-Authors: Carlos Romero-Talamas, University of Maryland, Baltimore County

EN

Dumeng, Jeriel..... 02:45 PM, CC- 15*Dolutegravir Disrupts Neural Rosette Organization in iPSC-derived Brain Organoid Models of Early Neurodevelopment*

Research Mentor: Kimberly Christian
 Research Institution: University of Pennsylvania
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Hongjun Song, Kimberly Christian, Guo-li Ming and Daniel Zhang, University of Pennsylvania

BB**Elahian, Savannah..... 05:00 PM, CC- 26***Who's Paying Attention? Relations Among Teacher Race, Student Engagement, And Classroom Practices*

Research Mentor: Catherine Bradshaw
 Research Institution: University of Virginia
 Home Institution: California State University-Northridge
 Co-Authors: Catherine Bradshaw, University of Virginia

SS**Elizardo, Marissa..... 8:45 AM, CC-24***The Relationship Between Gender and Time-on-Task in Montessori Classrooms*

Research Mentor: Angeline Lillard
 Research Institution: University of Virginia
 Home Institution: West Chester University of Pennsylvania
 Co-Authors: Angeline Lillard, University of Virginia

SS**Encarnacion-Rivera, Lucas 11:30 AM, Captial Room 2***Connectomic and Behavioral Analysis of Sexually Dimorphic Neurons in Drosophila melanogaster*

Research Mentor: Mala Murthy
 Research Institution: Princeton University
 Home Institution: Emory University
 Co-Authors: Mala Murthy and David Deutsch, Princeton University

ES**Ernzen, Erica..... 9:15 AM, CC-24***Learning Event Schemas in Blocked vs. Interleaved Study*

Research Mentor: Kenneth Norman
 Research Institution: Princeton University
 Home Institution: Coe College
 Co-Authors: Silvy Collin, Princeton University

SS**Espinoza, Selina..... 11:15 AM, CC- 26***Cannabis Use and Perceptions Among Veterans with Post-Traumatic Stress Disorder*

Research Mentor: Kent Hutchison
 Research Institution: University of Colorado Boulder
 Home Institution: California State University-Monterey Bay
 Co-Authors: Raeghan Mueller and Kent Hutchison, University of Colorado Boulder

SS**Estevez Quintana, Aleyshka..... 9:30 AM, CC- 21***Collaboration, Creation and Community in Location-Based Online Narratives*

Research Mentor: Alison Booth
 Research Institution: University of Virginia
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Authors: Alison Booth, University of Virginia

HU**Evans, Zaria..... 8:45 AM, Captial Room 1***Graphene Oxide Modified Carbon-Fiber Microelectrodes for Dopamine Detection*

Research Mentor: Jill Venton
 Research Institution: University of Virginia
 Home Institution: Dillard University
 Co-Authors: Jill Venton and Yuanyu Chang, University of Virginia

PS**Fall, Yacine 8:45 AM, CC- 13***Developing a Universal Immune Receptor for the Treatment of Cancer*

Research Mentor: Daniel J. Powell
 Research Institution: University of Pennsylvania
 Home Institution: Smith College
 Co-Authors: Daniel J. Powell and Nicholas Minutolo, University of Pennsylvania

AB**Fallacaro, Samantha 03:30 PM, CC- 12***Cell-type Specificity and Conservation of ATR-Chek1's Ability to Inhibit Axon Regeneration*

Research Mentor: Yuanquan Song
 Research Institution: University of Pennsylvania
 Home Institution: Carnegie Mellon University
 Co-Authors: Yuanquan Song, Emily Lo and Jingyun Qiu, University of Pennsylvania

BB**Feagins, David 11:45 AM, Captial Room 1***On the Brink: Hotspots of Acidification in the Southern Ocean*

Research Mentor: Nicole Lovenduski
 Research Institution: University of Colorado Boulder
 Home Institution: St Mary's University
 Co-Authors: Nicole Lovenduski, University of Colorado Boulder

ES**Feliz, Raquel..... 03:30 PM, CC- 17***Developing Next-Generation 3D Organoid Platforms for Breast Cancer Drug Screening*

Research Mentor: Melody Swartz
 Research Institution: University of Chicago
 Home Institution: Rochester Institute of Technology
 Co-Authors: Melody Swartz, Rachel Weathered and Ruolan Zhou, University of Chicago

AB**Fernandez, Patricia 03:15 PM, CC- 27***Migration in the Caribbean: Does migration make countries more resilient to tropical storms and hurricanes?*

Research Mentor: Elizabeth Fussell
 Research Institution: Brown University
 Home Institution: Temple University
 Co-Authors: Elizabeth Fussell, Brown University

SS**Finson, Laurel 11:45 AM, CC- 26***Regulation of the Pharmaceutical Marketing Industry and Its Impact on Opioid Prescribing*

Research Mentor: Magdalena Cerda
 Research Institution: New York University
 Home Institution: SUNY at Fredonia
 Co-Authors: Magdalena Cerda, New York University

SS**Florentino, Brayan..... 05:00 PM, CC- 15***Using Highly Parallel Optogenetic Stimulation to Investigate the Effects of Mutations on Serotonin Neurons of C. elegans*

Research Mentor: Niels Ringstad
 Research Institution: New York University
 Home Institution: Stony Brook University
 Co-Authors: Niels Ringstad, New York University

BB**Flores, Karina 11:45 AM, CC- 17***Developing Tools to Study Zika Virus Infection in vivo Based on Cre-lox Reporter Systems*

Research Mentor: Kenneth Stapleford
 Research Institution: New York University
 Home Institution: University of Oklahoma-Norman Campus
 Co-Authors: Margarita Rangel, Maria Noval and Kenneth Stapleford, New York University

BB**Fourte, Ayanna 9:45 AM, CC-27***Neuroinflammation Mediated by the Flaxseed Lignin, SDG*

Research Mentor: Kelly Jordan-Scuitto
 Research Institution: University of Pennsylvania
 Home Institution: Spelman College
 Co-Authors: Asha Murrel and Kimberly Williams, Spelman College; Kelly Jordan-Scuitto, University of Pennsylvania

BB**Francis-Malave, Adela..... 05:00 PM, CC- 17***Cholinergic Modulation of the Descending Pain Control Circuitry*

Research Mentor: Daniel McGehee
 Research Institution: University of Chicago
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Daniel McGehee and Shivang Sullere, University of Chicago

BB**Franco, Antonio..... 11:00 AM, Captial Room 1***Analyzing Past Sediment from the Brahmaputra River to Understand if the River Could Offset Sea Level Rise*

Research Mentor: Steven Goodbred
 Research Institution: Vanderbilt University
 Home Institution: Heritage University
 Co-Authors: Steven Goodbred and Jessica Raff, Vanderbilt University

ES**Franks, Barriane 04:00 PM, CC- 25***Crafting Culture: The Spiritual and Secular Nature of Yolngu Necklaces*

Research Mentor: Catherine Walden
 Research Institution: University of Virginia
 Home Institution: Xavier University of Louisiana
 Co-Authors: Henry Francis Skerritt, University of Virginia

HU**Garcia, Roger 05:30 PM, CC- 13***Response of Autophagy-Deficient Bone Marrow-Derived Dendritic Cells to Murine Norovirus Infection*

Research Mentor: Ken Cadwell
 Research Institution: New York University
 Home Institution: Texas A & M University-Kingsville
 Co-Authors: Ken Cadwell, Jessica Neil, Simone Dallari and Tom Heaney, New York University

BB**Garman, Kaitlin 11:15 AM, CC- 23***Mechanistic Analysis of Oxalate Formation on a Cr-Ga Oxide Catalyst by Kinetic Isotope Studies*

Research Mentor: Andrew Bocarsly
 Research Institution: Princeton University
 Home Institution: Montana State University
 Co-Authors: Steven Tignor and Andrew Bocarsly, Princeton University

PS**Getachew, Noel 11:45 AM, CC- 14***Characterizing Pulmonary Vessels In Preclinical Models Of Pulmonary Arterial Hypertension*

Research Mentor: Gaurav Choudhary
 Research Institution: Brown University
 Home Institution: University of Maryland-Baltimore County
 Co-Authors: Gaurav Choudhary, Ana Fernandez-Nicolas and Alexander Vang, Brown University

BB**Giallanza, Tyler 03:30 PM, CC- 26***Context-Aware Word Embedding Models Significantly Improve Prediction of Human Conceptual Similarity Relationships*

Research Mentor: Jonathan Cohen
 Research Institution: Princeton University
 Home Institution: Southern Methodist University
 Co-Authors: Catalin Jordan, Princeton University; Cameron T Ellis, Yale University; Jonathan Cohen, Princeton University

SS

Gibbs, Synphane..... 12:00 PM, CC- 13

Examining the effects of MrgpB4+ neuron optogenetic activation on reward behavior

Research Mentor: Ishmail Abdus-Saboor
 Research Institution: University of Pennsylvania
 Home Institution: North Carolina A & T State University
 Co-Authors: Ishmail Abdus-Saboor and Melanie Schaffler, University of Pennsylvania

BB**Gil de Rubio - Cruz, Antonio..... 9:45 AM, CC-23**

The Impact of Fiscal Decentralization on Public Indebtedness

Research Mentor: Mark Dean
 Research Institution: Columbia University
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Mark Dean, Columbia University

SS**Gillam, Victoria..... 03:15 PM, CC- 14**

Analyzing Fission and Fusion Signaling Changes After Cardioplegic Arrest

Research Mentor: Richard Clements
 Research Institution: Brown University
 Home Institution: Howard University
 Co-Authors: Richard Clements and Scarlett Huck, Brown University

BB**Godfrey, Paris..... 10:30 AM, CC- 22**

A Comparative Analysis of Hollywood Films Employing the White Savior Trope Between Obama and Trump's First Years in Office

Research Mentor: Tony Lin
 Research Institution: University of Virginia
 Home Institution: Spelman College
 Co-Authors: Tony Tian-Lin, University of Virginia

SS**Golash, Signe 03:15 PM, CC- 22**

Edge Detection Using Radon Transforms and Dynamic Programming for Indoor Robotic Navigation

Research Mentor: David Chapman
 Research Institution: University of Maryland, Baltimore County
 Home Institution: Brown University
 Co-Authors: Signe Golash and David Chapman, University of Maryland, Baltimore County

PS**Gomer, Gillian 05:15 PM, CC- 17**

Determining the Functions of Novel Genes Required for Photosynthesis

Research Mentor: Martin Jonikas
 Research Institution: Princeton University
 Home Institution: University of Central Florida
 Co-Authors: Martin Jonikas and Moshe Kafri, Princeton University

BB**Gonzalez, Cassandra..... 10:30 AM, CC-26**

Characterizing Dopamine and Oxytocin Receptor Cellular Distribution in the Prairie Vole Nucleus Accumbens

Research Mentor: Zoe Donaldson
 Research Institution: University of Colorado Boulder
 Home Institution: The University of Texas at Austin
 Co-Authors: Zoe Donaldson and Meredith Loth, University of Colorado Boulder

BB**Gonzalez, Daniela 10:15 AM, CC-24**

Overcoming Adversity: The Effectiveness of Underdog and Favorite Narratives in the Face of Perceived Discrimination

Research Mentor: Samir Nurmohamed
 Research Institution: University of Pennsylvania
 Home Institution: University of Central Florida
 Co-Authors: Samir Nurmohamed, University of Pennsylvania

SS**González-Figueroa , Reynaldo 9:00 AM, CC-23**

Governmental Rationality and Legal Pluralism: A Comparative Perspective Between Legitimacy and State Law

Research Mentor: Anjali Mohan
 Research Institution: University of Chicago
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Anjali Mohan, University of Chicago

PE**Gowett, Madison 03:45 PM, CC- 11**

The Impacts of Antibiotics and Dietary Fiber on the Commensal Gut Microbes Akkermansia muciniphila and Candida albicans

Research Mentor: Peter Belenky
 Research Institution: Brown University
 Home Institution: SUNY at Binghamton
 Co-Authors: Peter Belenky and Swathi Penumutthu, Brown University

BB**Grajales, Alexandra..... 03:00 PM, CC- 21**

Using Stable Carbon Isotopic Ratios to Test for Evidence of an Intermediate Between C3 and C4 Photosynthesis

Research Mentor: Boswell Wing
 Research Institution: University of Colorado Boulder
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Authors: Boswell Wing, Karen Chin and Brett Davidheiser-Kroll, University of Colorado Boulder

ES**Grandison, Lucia..... 10:00 AM, CC- 12**

Investigating the Role of KMT2D Loss-of-Function on Tumor Progression in the Sonic Hedgehog Subgroup of Medulloblastoma

Research Mentor: Alexandra Joyner
 Research Institution: Weill Cornell Graduate School
 Home Institution: Washington University in St Louis
 Co-Authors: Reeti Sanghrajka and Alexandra Joyner, Weill Cornell Graduate School

BB**Grant, Justin 03:00 PM, CC- 11**

Correlating the Host Immune Response to the Flagellar Motility of Pseudomonas aeruginosa

Research Mentor: Brent Berwin
 Research Institution: Dartmouth College
 Home Institution: Morehouse College
 Co-Authors: Brent Berwin, Dan Hopkins, Hector Sanchez, Sally Demirdjijian and Mike Zegans, Dartmouth College

BB**Graves, Mai-Li 12:15 PM, CC- 25**

The Black Speculative: Octavia Butler's Writings as Tools for Liberating Black Women Writers and Audiences

Research Mentor: Jack Halberstam
 Research Institution: Columbia University
 Home Institution: University of California-Los Angeles
 Co-Authors: Jack Halberstam, Columbia University

HU**Graves, Sarah..... 8:45 AM, CC-23**

Support for Electoral Democracy in the Americas

Research Mentor: Noam Lupu
 Research Institution: Vanderbilt University
 Home Institution: Hanover College
 Co-Authors: Noam Lupu, Vanderbilt University

PE**Green, Devin..... 04:45 PM, CC- 24**

"Freedom's Price" and "Freedom's Power:" President Bush's Rhetorical Assault on the Concept of Freedom and the Justification of a Surveillance State

Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: The Community College of Baltimore County
 Co-Authors: Natalie Strobach, Johns Hopkins University

HU**Green, Erin 11:45 AM, CC- 25**

It's Funny Because It's True: Analyzing Satire in the Age of Trump

Research Mentor: Herman Beavers
 Research Institution: University of Pennsylvania
 Home Institution: University of Montevallo
 Co-Authors: Herman Beavers, University of Pennsylvania

HU**Gresham III, Robert..... 12:00 PM, CC- 14**

Development of Novel Therapeutic Agents Targeting Inward Rectifier Potassium Channels for Treatment of Hypertension

Research Mentor: Jerod Denton
 Research Institution: Vanderbilt University
 Home Institution: Hampton University
 Co-Authors: Jerod Denton and Sujay Kharade, Vanderbilt University

BB**Griffin, Ananda 11:45 AM, CC- 24**

Even Beyoncé Got Cheated On: Expectations of Unconditional Love from Black Women in R&B and Rap Music

Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: Spelman College
 Co-Authors: Natalie Strobach, Johns Hopkins University

HU**Griffin, Antionette..... 12:30 PM, CC- 24**

Fiber Connections: Kinship Relations Through String-Bags from Gapuwiyak

Research Mentor: Henry Skerritt
 Research Institution: University of Virginia
 Home Institution: Auburn University at Montgomery
 Co-Authors: Henry Skerritt, University of Virginia

HU**Grimaldo, Maria 12:15 PM, CC- 17**

Overcoming Cytotrophoblast-Mediated Immune Suppression of Macrophages in Response to Infection

Research Mentor: David Aronoff
 Research Institution: Vanderbilt University
 Home Institution: Texas A & M University-College Station
 Co-Authors: David Aronoff and Alison Eastman, Vanderbilt University

AB**Grissom, Kendra..... 11:15 AM, CC- 25**

'And We Will Fight': Black Leftist Organizing During the Early Years of the Cold War, 1945-1960

Research Mentor: Stephen Pitti
 Research Institution: Yale University
 Home Institution: Spelman College
 Co-Authors: Stephen Pitti, Yale University

HU**Gucer, Doru..... 03:45 PM, CC- 23**

The Impact of Individual Variability of the Oxytocinergic System on Insular Cortex Functional Connectivity During Social Perception in Children

Research Mentor: Jessica Connelly
 Research Institution: University of Virginia
 Home Institution: The University of Texas at Austin
 Co-Authors: Amalia McDonald, Jessica Connelly and James Morris, University of Virginia

SS**Guerra Schleske, Paulina..... 12:15 PM, CC- 13**

Optimizing the Auxin Inducible Degron for Depletion of the PAF Complex in Mammalian Cells

Research Mentor: Brian Dynlacht
 Research Institution: New York University
 Home Institution: Duke University
 Co-Authors: Brian Dynlacht and Yating Wang, New York University

BB

Guevara Espitia, Camilo..... 03:30 PM, CC- 15

Axonal Regeneration After Nerve Transection is Accompanied by a Recovery of Locomotor Function

Research Mentor: Michael Granato
Research Institution: University of Pennsylvania
Home Institution: Universidad Nacional de Colombia
Co-Authors: Michael Granato and Lauren Walker, University of Pennsylvania

BB**Haile, Yared..... 03:30 PM, CC- 14**

Epitranscriptomic Modifications Act To Regulate mRNA Localization

Research Mentor: Samie Jaffrey
Research Institution: Weill Cornell Graduate School
Home Institution: Humboldt State University
Co-Authors: Jason Dumelie and Samie R. Jaffrey, Weill Cornell Graduate School

BB**Hampton, Donovan..... 12:15 PM, CC- 27**

“Gods for the Girls”: Yoruba-Based Spirituality as a Site for Queer Inclusion

Research Mentor: Stephen Pitti
Research Institution: Yale University
Home Institution: Ohio State University-Main Campus
Co-Authors: Stephen Pitti and Teona Williams, Yale University

HU**Hamzat, Ibraheem 12:00 PM, CC- 11**

Engineering High Affinity IL-26 Ligands for Structural and Functional Studies

Research Mentor: Juan Mendoza
Research Institution: University of Chicago
Home Institution: University of Nebraska-Lincoln
Co-Authors: Juan Mendoza, University of Chicago

BB**Harris, Jakari 12:30 PM, CC- 11**

The Role of Hypertensive Stretch on Endothelial PD-L1 Expression

Research Mentor: Meenakshi Madhur
Research Institution: Vanderbilt University
Home Institution: Hampton University
Co-Authors: Meenakshi Madhur and Duncan Smart, Vanderbilt University

AB**Harris, Kelsey 8:45 AM, CC- 21**

Carnival In The West Indies; A Cultural Festivity And A Tool For Women’s Empowerment

Research Mentor: Julia Lynch
Research Institution: University of Pennsylvania
Home Institution: Seton Hall University
Co-Authors: Julia Lynch, University of Pennsylvania

PE**Harris, Merrick 03:00 PM, CC- 17**

Exploring How Modification of Apolipoprotein A1 Affects the Interaction of SR-B1 and HDL in Reverse Cholesterol Transport

Research Mentor: MacRae Linton
Research Institution: Vanderbilt University
Home Institution: Marshall University
Co-Authors: MacRae Linton and Huan Tao, Vanderbilt University

AB**Hay, Aurland..... 9:00 AM, Captial Room 2**

Crystal Growth of Square-Net Based Materials

Research Mentor: Sebastian Klemenz
Research Institution: Princeton University
Home Institution: Wellesley College
Co-Authors: Sebastian Klemenz and Leslie Schoop, Princeton University

PS**Hembrick, Adrienne..... 9:45 AM, Captial Room 3**

The Properties of Optically-Visible Star Clusters in Luminous Infrared Galaxy Mergers

Research Mentor: Loreto Barcos Muñoz
Research Institution: University of Virginia
Home Institution: Virginia Commonwealth University
Co-Authors: Aaron Evans, Loreto Barcos Muñoz, Yiqing Song and Sean Linden, University of Virginia

PS**Hernandez, Adriana..... 04:00 PM, CC- 17**

The Role of the Blood Brain Barrier in Schizophrenia

Research Mentor: Jorge Alvarez
Research Institution: University of Pennsylvania
Home Institution: California State University-Long Beach
Co-Authors: Jorge Alvarez, Alexis Crockett, Sean Ryan, Caroline Canning and Nickole Kanyuch, University of Pennsylvania

BB**Hernandez, Kimberly 9:30 AM, Captial Room 3**

ZnS and KCl clouds on exoplanets: GJ 1214b

Research Mentor: Alexandria Johnson
Research Institution: Brown University
Home Institution: Wellesley College
Co-Authors: Alexandria Johnson, David Tersegno and Dana Altoaimi, Brown University

PS**Hernandez, Nancy 04:00 PM, CC- 26**

Do 6- to 7-Year-Old Children Infer Power and Virtue From Gossip?

Research Mentor: Amrisha Vaish
Research Institution: University of Virginia
Home Institution: St. John’s College
Co-Authors: Meltem Yucel, University of Virginia

SS**Herrera, Brandy 05:15 PM, CC- 25**

Education for All and Private Education Expenditures

Research Mentor: Emmerich Davies
Research Institution: Harvard University
Home Institution: University of Oklahoma-Norman Campus
Co-Authors: Emmerich Davies, Afrah Boatang, Aditi Parekh and Pawel Rybacki, Harvard University

SS**Hester, Katelynn 12:00 PM, CC- 24**

Constructing Imaginary Natives: Visual Sovereignty and the Representation of Native Americans in Entertainment and Popular Media

Research Mentor: Linford Fisher
Research Institution: Brown University
Home Institution: Southeastern Oklahoma State University
Co-Authors: Linford Fisher, Brown University

HU**Hinckley, Will 9:45 AM, CC- 11**

Testing the Hypothesis that PP2A-B72 Subunits Regulate the HMG-CoA Reductase Metabolic Enzyme

Research Mentor: Alison DeLong
Research Institution: Brown University
Home Institution: California State University-Long Beach
Co-Authors: Alison DeLong, Brown University

BB**Hirsh, Nicole 02:45 PM, CC- 14**

Replicative Stress upon POLE Suppression Leads to a Senescence-like Phenotype in Breast Cancer Cells

Research Mentor: Vlad Sviderskiy
Research Institution: New York University
Home Institution: University of Michigan-Ann Arbor
Co-Authors: Vlad Sviderskiy and Richard Possemato, New York University

BB**Hong, James..... 9:00 AM, CC- 14**

Monitoring Change In Activity Of Mutant Forms Of The Cell Surface Metalloprotease Adam17 That Have Been Linked To Cancer

Research Mentor: Carl Blobel
Research Institution: Weill Cornell Medical College
Home Institution: Duke University
Co-Authors: Jose Lora, Yi Zhao, Nayanendu Saha, Dimitar Nikolov and Carl Blobel, Weill Cornell Medical College

BB**Horowitz, Rose 9:30 AM, CC- 11**

Alteration of L-type Ca²⁺ Channels in Arcuate NPY Neurons as a Mechanism for Early Weight Loss in Alzheimer’s Disease

Research Mentor: Makoto Ishii
Research Institution: Weill Cornell Graduate School
Home Institution: Wellesley College
Co-Authors: Makoto Ishii and Teresa Milner, Weill Cornell Graduate School

AB**Hu, Jenny 12:00 PM, CC- 23**

Synthesis of Telehelical Polyolefins via di-Zirconocene Bidirectional Initiators

Research Mentor: Jason Brandt
Research Institution: Princeton University
Home Institution: University of North Carolina at Chapel Hill
Co-Authors: Jason Brandt and Brad Carrow, Princeton University

PS**Hughley, Serena..... 10:15 AM, CC-23**

Prohibiting Blackness: Temperance Legislation and Violence in Chicago’s Black Neighborhoods from 1860-1930

Research Mentor: Robert Vargas
Research Institution: University of Chicago
Home Institution: Spelman College
Co-Authors: Robert Vargas, University of Chicago

SS**Hull, Morgan..... 05:00 PM, CC- 21**

Epigenetic Modification Of The Oxytocin Receptor Gene Is Associated With The Development Of Social Skills In Childhood

Research Mentor: Jessica Connelly
Research Institution: University of Virginia
Home Institution: University of Maryland-Baltimore County
Co-Authors: Amalia McDonald, Jessica Connelly and James Morris, University of Virginia

AB**Idowu, Teniola 04:45 PM, CC- 13**

Plasmodium falciparum Factors that Induce Brain Endothelium Disruptions in Malaria

Research Mentor: Ana Rodriguez
Research Institution: New York University
Home Institution: Pennsylvania State University-Main Campus
Co-Authors: Ana Rodriguez, Claudia Paradelo Gomes and Marisol Zuniga, New York University

BB**Iskander, George 9:15 AM, Captial Room 3**

Understanding the Effects of Correlated Read Noise in the LSST Camera on the Galaxy Two-Point Correlation Function

Research Mentor: Aaron Roodman
Research Institution: Stanford University
Home Institution: Yale University
Co-Authors: Aaron Roodman and Julian Rovee, Stanford University

PS

Jangid, Aditya..... 9:15 AM, CC- 11

Epitope Profiling and Binding Affinity of Therapeutic and Diagnostic Nanobodies to Tau Protein in Alzheimer's Disease

Research Mentor: Einar Sigurdsson
 Research Institution: New York University
 Home Institution: California Polytechnic State University-San Luis Obispo
 Co-Authors: Leslie A. Sandusky-Beltran and Einar M. Sigurdsson, New York University

AB**Jean-Gilles, Jair 02:45 PM, CC- 17**

Distribution and Co-localisation of mRNA in Neurons through Combinatorial smFISH

Research Mentor: Junhyong Kim
 Research Institution: University of Pennsylvania
 Home Institution: University of Pennsylvania
 Co-Authors: Jihoon Kim, Jean Rosario and Junhyong Kim, University of Pennsylvania

BB**Jean-Pierre, Makheni..... 04:45 PM, CC- 17**

Xist RNA Localization in Quiescent and Stimulated Intestinal Stem Cells

Research Mentor: Montserrat C Anguera
 Research Institution: University of Pennsylvania
 Home Institution: Stony Brook University
 Co-Authors: Montserrat C. Anguera, University of Pennsylvania

AB**Jeffries, Hannah 03:45 PM, CC- 24**

Twisted & Twined: Cross Cultural Exchange Through Fiber Art Baskets From Gapuwiyak

Research Mentor: Henry Skerritt
 Research Institution: University of Virginia
 Home Institution: University of North Carolina at Pembroke
 Co-Authors: Henry Skerritt, University of Virginia

HU**Jeronimo, Carlos 10:00 AM, CC-27**

Investigating The Role of WDR1 in IS Disassembly in CTLs

Research Mentor: Morgan Huse
 Research Institution: Weill Cornell Graduate School
 Home Institution: CUNY Lehman College
 Co-Authors: Morgan Huse and Elisa Sanchez, Weill Cornell Graduate School

BB**Johnson, Dove-Anna..... 10:15 AM, CC-25**

Characterization of RAGE-expressing Cells in the Muscle, Sciatic Nerve, and Spinal Cord of Amyotrophic Lateral Sclerosis Mice

Research Mentor: Ann Marie Schmidt
 Research Institution: New York University
 Home Institution: University of Virginia
 Co-Authors: Ann Marie Schmidt and Michael MacLean, New York University

BB**Johnson, Jaeden 9:30 AM, CC-23**

Self-Sacrifice: The (Anti-Black) In/Coherence of Liberal Freedom

Research Mentor: Jennifer Rubenstein
 Research Institution: University of Virginia
 Home Institution: Morehouse College
 Co-Authors: Jaeden Johnson, University of Virginia

PE**Judkins, Christian 02:45 PM, CC- 16**

Gene Regulator Interactions Confer Robust Cell Fate Decisions

Research Mentor: Shawn Little
 Research Institution: University of Pennsylvania
 Home Institution: Hampton University
 Co-Authors: Shawn Little, University of Pennsylvania

BB**Kasongo, Sango 10:15 AM, CC-26**

The Effects of Nicotine Administration and Abstinence on Prepro-orexin and OX2R Expression in the Striatum of C57BL/6J Mice at ZT16 and ZT20

Research Mentor: Jerry Stitzel
 Research Institution: University of Colorado Boulder
 Home Institution: Ohio State University-Main Campus
 Co-Authors: Jerry Stitzel and Hunter Mathews, University of Colorado Boulder

BB**Katta, Omkar..... 9:00 AM, CC- 21**

Toilet Habit in Kenya

Research Mentor: Mushfiq Mobarak
 Research Institution: Yale University
 Home Institution: University of Pennsylvania
 Co-Authors: Ahmed Mushfiq Mobarak, Yale University

SS**Kehring, Olivia 11:00 AM, CC- 25**

War Re-Sisters: Poetry and the Coevolution of Anti-Vietnam War Movements and America's Second Wave of Feminism

Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: The Community College of Baltimore County
 Co-Authors: Natalie Strobach, Johns Hopkins University

HU**Keith, Nathan 10:00 AM, Captial Room 1**

Cracking the Code: Simplifying Endoscopy Calibration Procedures with Fluorescence Images

Research Mentor: Sakshi Singh
 Research Institution: University of Colorado Boulder
 Home Institution: Fort Lewis College
 Co-Authors: Rafael Piestun and Sakshi Singh, University of Colorado Boulder

PS**Kelly, Iyani 12:15 PM, CC- 11**

Determining the Role of Metadherin (MTDH) in Escaping Cytotoxic T-Cell Attack

Research Mentor: Yibin Kang
 Research Institution: Princeton University
 Home Institution: Clark Atlanta University
 Co-Authors: Yibin Kang and Ramesh T. Gunaratna, Princeton University

BB**Keniston, Sophia 11:45 AM, Captial Room 2**

Proposing New Methodology for Calculating Nutrient Credits in Virginia

Research Mentor: Jonathan Goodall
 Research Institution: University of Virginia
 Home Institution: Piedmont Virginia Community College
 Co-Authors: Jonathan Goodall and Linnea Saby, University of Virginia

ES**Kilian, John..... 11:45 AM, CC- 12**

Epitope Mapping of Therapeutic Antibody Targeting Galectin-9

Research Mentor: Shohei Koide
 Research Institution: New York University
 Home Institution: Truman State University
 Co-Authors: Linxiao Chen and Shohei Koide, New York University

AB**King, Niaomi 10:30 AM, CC-25**

Time Course and Mechanisms of Striatal Synapse Development

Research Mentor: Marc Fuccillo
 Research Institution: University of Pennsylvania
 Home Institution: La Salle University
 Co-Authors: Marc Fuccillo, University of Pennsylvania

BB**Kline, Madeleine 03:15 PM, CC- 11**

Spatial Characterization of the Immune Response to Commensal Gut Microbiota

Research Mentor: Dan Littman
 Research Institution: New York University
 Home Institution: Massachusetts Institute of Technology
 Co-Authors: Dan Littman, Ranit Kedmi and Jhimmy Talbot, New York University

BB**Kochen, Alejandro 9:00 AM, CC- 13**

The Role of Alpha 2-3 Sialyltransferase on Cell Growth in Melanoma

Research Mentor: Eva Hernando
 Research Institution: New York University
 Home Institution: Boston University
 Co-Authors: Eva Hernando-Monge and Praveen Agrawal, New York University

BB**Kolawole, Oluwapelumi 05:15 PM, CC- 16**

Construction and Characterization of Recombinant Usutu Virus Reporter Strains

Research Mentor: Alexander Ploss
 Research Institution: Princeton University
 Home Institution: Howard University
 Co-Authors: Alexander Ploss, Robert LeDesma, Celeste Claudio, Qiang Ding and Brigitte Heller, Princeton University

AB**Kollmann, Kassidy 9:00 AM, Captial Room 3**

The Determination of Host Galaxy Properties from the Analysis of Spectral Energy Distributions of Active Galactic Nuclei in the Stripe 82 X-ray Survey

Research Mentor: Meg Urry
 Research Institution: Yale University
 Home Institution: University of Maryland-Baltimore County
 Co-Authors: Meg Urry and Meredith Powell, Yale University

PS**Kovalik, Maria..... 12:30 PM, CC- 17**

The Role of Mycobacterium Tuberculosis Transcription Factor EspR in Metabolic Shifts to Fatty Acid Utilization under Acidic Condition

Research Mentor: Sabine Ehrt
 Research Institution: Weill Cornell Graduate School
 Home Institution: Duke University
 Co-Authors: Sabine Ehrt and Claire Healy, Weill Cornell Graduate School

BB**Kreiker, Mohamad Malaz Mehdi 03:00 PM, CC- 12**

Optimization of Ethyl Cinnamate as an Alternative Approach for Neural Tissue Clearing

Research Mentor: Samuel Wang
 Research Institution: Princeton University
 Home Institution: Drake University
 Co-Authors: Kelly Seagraves, Zahra Dhanerawala, John D'Uva and Samuel S.-H. Wang, Princeton University

BB**Krikorian, Georgia 03:00 PM, CC- 13**

The Modulatory Role of Metabotropic Glutamate Receptors in Prefrontal Cortical Function and Depressive Behavior in Mice

Research Mentor: Joshua Levitz
 Research Institution: Weill Cornell Medical College
 Home Institution: Smith College
 Co-Authors: Vanessa Gutzeit and Joshua Levitz, Weill Cornell Medical College

BB**Krishnamurthy, Manu 05:30 PM, CC- 21**

Does Pitocin-Induced Labor Affect Infant Brain Response to Social Stimuli?

Research Mentor: Tobias Grossman
 Research Institution: University of Virginia
 Home Institution: University of North Carolina at Chapel Hill
 Co-Authors: Tobias Grossmann, University of Virginia

AB

Kubi, Gabrielle 12:00 PM, CC- 27

Overrepresentation and Literacy Among Black Youth in Special Education

Research Mentor: Anita McGinty
 Research Institution: University of Virginia
 Home Institution: Cornell University
 Co-Authors: Anita McGinty, University of Virginia
SS

Lacap, Roland 03:15 PM, CC- 12

Searching for Proteins that Mediate Synapse Formation between the Drosophila UV Photoreceptor and its Postsynaptic Partner

Research Mentor: Jessica Treisman
 Research Institution: New York University
 Home Institution: California State University-Northridge
 Co-Authors: Jessica E Treisman and Ariel Hairston, New York University
BB

Lagombra Padín, Yelibech 03:30 PM, CC- 22

Hydrogel Microbeads for the Study of Mechanical Gradients on Neurite Extension

Research Mentor: Connie Chang
 Research Institution: Montana State University
 Home Institution: University of Puerto Rico-Arecibo
 Co-Authors: Connie Chang and Jacob Fredrikson, Montana State University
EN

Laura, Wara 05:30 PM, CC- 16

Bench-marking Single Cell Clustering Algorithms for Identifying Cell Populations

Research Mentor: Junhyong Kim
 Research Institution: University of Pennsylvania
 Home Institution: Passaic County Community College
 Co-Authors: Angela Huang and Junhyong Kim, University of Pennsylvania
BB

Lawhead, Connor 9:00 AM, CC-24

Assessing the Relationship Between Physical and Cognitive Effort Costs in a Patch Foraging Task

Research Mentor: Jonathan Cohen
 Research Institution: Princeton University
 Home Institution: University of Georgia
 Co-Authors: Laura Bustamante, Princeton University
SS

Linden, Noemi 11:00 AM, CC- 13

The Effect of Interleukin-17A on Wound Repair

Research Mentor: Shruti Naik
 Research Institution: New York University
 Home Institution: Jacobs University Bremen
 Co-Authors: Shruti Naik, Piotr Konieczny and Shoiab Bukhari, New York University
BB

Lisenby, Cedrina 03:30 PM, CC- 23

Agreeing From a Glance: How Quickly Can Preschoolers' Concentration Be Assessed?

Research Mentor: Angeline Lillard
 Research Institution: University of Virginia
 Home Institution: Winston-Salem State University
 Co-Authors: Angeline Lillard, University of Virginia
SS

Llaneras, Cristina 04:45 PM, CC- 12

Genome-Wide CRISPR Screen and its use in Determining Host Factors Contributing to the Success of a Streptococcus Agalactiae Pore-Forming Toxin

Research Mentor: Adam Ratner
 Research Institution: New York University
 Home Institution: University of South Florida-Main Campus
 Co-Authors: Ifrah Shahi and Adam Ratner, New York University
BB

Lopez, Ryan 03:15 PM, CC- 16

Biochemical Analysis of Dipeptide Repeat Protein (DPRs) Fractions from C9orf72 ALS/FTD Human Brain Tissue

Research Mentor: Edward Lee
 Research Institution: University of Pennsylvania
 Home Institution: University of North Florida
 Co-Authors: Edward Lee and Ashley Viera-Ortiz, University of Pennsylvania
AB

Lopez Fernandez, Giselle 05:30 PM, CC- 15

Comprehensive Phenotypic Analysis of Excretory System Cell Fate Regulators Predicted from C. elegans Single Cell RNA-seq Data

Research Mentor: John Murray
 Research Institution: University of Pennsylvania
 Home Institution: Georgia Gwinnett College
 Co-Authors: John Murray, University of Pennsylvania
BB

Lopez-Serrano, Uriel 04:00 PM, CC- 24

Performing Sor Juana in the late-20th and early-21st Centuries: Latinx [Re]Imaginations of the Tenth Muse of Colonial Mexico

Research Mentor: Patricia Ybarra
 Research Institution: Brown University
 Home Institution: Bowdoin College
HU

Lorgan-Khanyile, Sarah 12:15 PM, CC- 24

Space Beyond Language: Towards an Apophatic Theory of Lyric Using Poetry of the Holocaust

Research Mentor: Erik Gray
 Research Institution: Columbia University
 Home Institution: Cornell University
 Co-Authors: Erik Irving Gray, Columbia University
HU

Lorient, Edwina 11:15 AM, CC- 21

The Effects of Operating Conditions on Photovoltaic Module Performance

Research Mentor: Christopher Bull
 Research Institution: Brown University
 Home Institution: Central Connecticut State University
 Co-Authors: Christopher Bull, Brown University
EN

Luck, Cuyler 10:15 AM, CC- 13

A Novel Method to Evaluate Minimal Residual Disease in Breast Cancer Dormancy

Research Mentor: Lewis Chodosh
 Research Institution: University of Pennsylvania
 Home Institution: Pennsylvania State University-Main Campus
 Co-Authors: Lewis Chodosh, Amulya Sreekumar, Francesco Marino and Adetutu Egunsola, University of Pennsylvania
BB

Luevano, Ruben 11:30 AM, CC- 22

Ultra-weak Bioluminescence of Brain Stem Cells

Research Mentor: Leah Spangler
 Research Institution: Princeton University
 Home Institution: California State University-Long Beach
 Co-Authors: Leah Spangler and Gregory D. Scholes, Princeton University
PS

Luqueno, Leslie 02:45 PM, CC- 27

Making it Work or Working to Make it?: Variations in Federal Work-Study Programs Over Time and Amongst Institutions

Research Mentor: Anthony Jack
 Research Institution: Harvard University
 Home Institution: Haverford College
 Co-Authors: Anthony Jack, Harvard University; Cristina Santos, Brown University
SS

Macassi, Stephanie 03:45 PM, CC- 14

Determining the Roles of Caspase-4 and Caspase-5 in Inflammasome Activation

Research Mentor: Sunny Shin
 Research Institution: University of Pennsylvania
 Home Institution: University of Central Florida
 Co-Authors: Sunny Shin and Antonia Bass, University of Pennsylvania
BB

Maccaux, McKenzie 03:15 PM, CC- 26

Music, Meaning and Disintegration

Research Mentor: Lawrence Zbikowski
 Research Institution: University of Chicago
 Home Institution: University of Wisconsin-Madison
 Co-Authors: Lawrence Zbikowski, University of Chicago
HU

MacHale, Luke 11:45 AM, Captial Room 3

Understanding the Thermodynamics of the 4-component Ugi Reaction Mechanism to Facilitate Molecular Data Storage

Research Mentor: Brenda Rubenstein
 Research Institution: Brown University
 Home Institution: Montana State University
 Co-Authors: Amanda Dombroski, Christopher E. Arcadia, Joseph D. Geiser, Eamonn Kennedy and Jacob K. Rosenstein, Brown University
PS

MacRae, Alexandria 05:00 PM, CC- 24

A Harder Knock Life, Having to Be Black and Annie

Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: The Community College of Baltimore County
 Co-Authors: Natalie Strobach, Johns Hopkins University
HU

Malaret, Jose 02:45 PM, CC- 11

The Impact of a Pediatric Microbiome on Clostridium Difficile and Host Immunity

Research Mentor: Michael Silverman
 Research Institution: University of Pennsylvania
 Home Institution: University of Puerto Rico-Ponce
 Co-Authors: Michael Silverman, Joseph Zackular and Alexander Smith, University of Pennsylvania
BB

Malone, Jasmine 8:45 AM, CC-25

The Conscious Archivist: Activism and the Role of Record Keepers

Research Mentor: Nancy Hampton
 Research Institution: Xavier University of Louisiana
 Home Institution: Xavier University of Louisiana
 Co-Authors: Nancy Hampton, Xavier University of Louisiana
HU

Manalang, Kimberly 9:30 AM, CC- 14

Development of P-Selectin Binding Liposomes in Drug Resistant Tumor Tissues

Research Mentor: Emma Grabarnik
 Research Institution: Weill Cornell Medical College
 Home Institution: Lafayette College
 Co-Authors: Emma Grabarnik and Daniel Heller, Weill Cornell Medical College
AB

Mandi, Varun 12:15 PM, CC- 14

Uncovering Mechanisms of Doxorubicin-Induced Toxicity in Cardiomyocytes

Research Mentor: Kiran Musunuru
 Research Institution: University of Pennsylvania
 Home Institution: University of Pittsburgh-Pittsburgh Campus
 Co-Authors: Chris McDermott-Roe and Kiran Musunuru, University of Pennsylvania
BB

Mantilla Esparza, Fabian 04:00 PM, CC- 15

Exploring Novel Regulators of Axon Repulsion at the Midline: Identifying Unknown Substrates of the Endosomal Sorting Receptor Comm

Research Mentor: Greg Bashaw
 Research Institution: University of Pennsylvania
 Home Institution: Universidad Nacional de Colombia
 Co-Authors: Greg J. Bashaw and Kelly G. Sullivan, University of Pennsylvania

BB**Martinez, Helen..... 02:45 PM, CC- 24**

Turning Tradition into Artistic Expression: A Look at Gapuwiyak Fiberart

Research Mentor: Henry Skerritt
 Research Institution: University of Virginia
 Home Institution: University of Houston-Downtown
 Co-Authors: Henry Skerritt, University of Virginia

HU**Martínez-Muñoz, Andrés 9:45 AM, CC- 13**

Characterization of CAL 27, a Head and Neck Cancer Squamous Cell Carcinoma (HNSCC), under NSD1 Loss-of-function Mutation and Treatment with p300/CBP Inhibitor A-485

Research Mentor: Chao Lu
 Research Institution: Columbia University
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Authors: Yinglu Li and Chao Lu, Columbia University

BB**Mason, Kaishu..... 04:45 PM, CC- 16**

Estimation of Compartments in Bulk Hi-C Data via Latent Space Model Fitting

Research Mentor: Nancy Zhang
 Research Institution: University of Pennsylvania
 Home Institution: Harvard University
 Co-Authors: Nancy Zhang, Jingshu Wang and Zongming Ma, University of Pennsylvania

BB**Mason-Price, JaMariya 12:30 PM, CC- 27**

Issa Bop or Flop: The Influence of Hip Hop Fashion

Research Mentor: Sarah Hernandez
 Research Institution: Xavier University of Louisiana
 Home Institution: Claflin University
 Co-Authors: Sarah Hernandez, Xavier University of Louisiana

HU**Matera-Vatnick, Mikaela 11:00 AM, CC- 22**

Where are Transcription Factors Really Binding in Breast Cancer?

Research Mentor: Ekta Khurana
 Research Institution: Weill Cornell Medical College
 Home Institution: Cornell University
 Co-Authors: Andre Neil Forbes, Duo Xu and Ekta Khurana, Weill Cornell Medical College

PS**Matthews-Balcombe, Jade 9:15 AM, CC- 12**

Inhibition of Immune Suppressive PMN-MDSCs via Type 1 Interferon Therapy in Cancer

Research Mentor: Dmitry Gabrilovich
 Research Institution: University of Pennsylvania
 Home Institution: CUNY Brooklyn College
 Co-Authors: Kevin Alicea-Torres and Dmitry Gabrilovich, University of Pennsylvania

BB**McClinton, Willie 11:15 AM, Captial Room 3**

Meta-Learning with Multi-Level Hierarchies via Context Variables

Research Mentor: George Konidaris
 Research Institution: Brown University
 Home Institution: University of South Florida-Main Campus
 Co-Authors: George Konidaris and Andrew Levy, Brown University

PS**McCulley, Jahru 03:45 PM, CC- 27**

Runaway Growth: The Increasing Pressure of the Global Economy on the Biosphere

Research Mentor: Belinda Archibong
 Research Institution: Columbia University
 Home Institution: DePaul University
 Co-Authors: Belinda Archibong, Columbia University

SS**McDuffie, Joshua 11:15 AM, Captial Room 2**

Evaluating the Impact of Flood Mitigation on Community Resilience through Post-Disaster Housing Assistance

Research Mentor: Hiba Baroud
 Research Institution: Vanderbilt University
 Home Institution: North Carolina A & T State University
 Co-Authors: Hiba Baroud and Dan Perrucci, Vanderbilt University

EN**Meara, William 03:15 PM, CC- 15**

Investigating the Role of Perineuronal Nets in BTBR Mice

Research Mentor: Elizabeth Gould
 Research Institution: Princeton University
 Home Institution: James Madison University
 Co-Authors: Elise Cope, Elizabeth Gould and Amelia Windorski, Princeton University

BB**Mejias-Rivera, Loreilys 9:30 AM, CC- 12**

The Effect of Talc on Macrophage Transcriptome to Explain Their Compromised Tumoricidal Activity Against Ovarian Cancer Cells

Research Mentor: Alexey Fedulov
 Research Institution: Brown University
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Alexey Fedulov, Brown University

BB**Melendez-Davila, Adriel.... 10:00 AM, Captial Room 2**

Polymer Detection on Ferroelectric Surfaces

Research Mentor: Eric Altman
 Research Institution: Yale University
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Authors: Jake Heinlein and Eric Altman, Yale University

PS**Mendez, Pedro 11:15 AM, CC- 16**

Enhancing the Production of Post Mitotic Cortical Interneurons by the Inhibition of the Notch Signaling Pathway

Research Mentor: Stewart Anderson
 Research Institution: University of Pennsylvania
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Stewart Anderson, Megan Fitzgerald and Bill Manley, University of Pennsylvania

BB**Mendoza, Eric 05:30 PM, CC- 12**

Functional Characterization of Human Liver Gene Regulatory Elements

Research Mentor: Christopher Brown
 Research Institution: University of Pennsylvania
 Home Institution: Passaic County Community College
 Co-Authors: Brandon Wenz, Shweta Ramdas, Minal Caliskan and Christopher D. Brown, University of Pennsylvania

BB**Mensah, Patricia 03:00 PM, CC- 14**

Synthetic Fibrous Matrices for Engineering Contractile Tissue

Research Mentor: Matthew Davidson
 Research Institution: University of Pennsylvania
 Home Institution: Howard University
 Co-Authors: Jason Burdick, Matthew Davidson and Gabriel Mickel, University of Pennsylvania

AB**Mesfin, Abigail 10:45 AM, CC-23**

Investigating Black College Women's Sense of Belonging and Subsequent Academic and Social Behaviors

Research Mentor: Timothy Wilson
 Research Institution: University of Virginia
 Home Institution: Amherst College
 Co-Authors: Timothy Wilson and Lee Williams, University of Virginia

SS**Molina-Arocho, William 04:45 PM, CC- 14**

Uncovering Novel Regulators of Mitochondrial Function

Research Mentor: Jorge Henao-Mejia
 Research Institution: University of Pennsylvania
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Authors: Megan Clark and Jorge Henao-Mejia, University of Pennsylvania

BB**Montelongo, Javier 11:00 AM, CC- 12**

Functional Characterization of Human LCAT Variant

Research Mentor: Cecilia Vitali
 Research Institution: University of Pennsylvania
 Home Institution: California Lutheran University
 Co-Authors: Cecilia Vitali and Daniel Rader, University of Pennsylvania

BB**Montenegro, Sandra 04:45 PM, CC- 26**

Leader Communication Tactics to Promote Inclusion

Research Mentor: Andrew Carton
 Research Institution: University of Pennsylvania
 Home Institution: University of Central Florida
 Co-Authors: Andrew Carton, McKenzie Preston and Arianna Maria Beetz Ulloa, University of Pennsylvania

SS**Morales Rodríguez, Victoria 12:00 PM, CC- 25**

The Power of Bathi

Research Mentor: Henry Skerritt
 Research Institution: University of Virginia
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Authors: Henry Skerritt, University of Virginia

HU**Moreaux, Leslie 9:45 AM, CC- 21**

What is "Dominicanidad"? Deconstructing Dominican Nationality through Black Spirituality

Research Mentor: Obery Hendricks
 Research Institution: Columbia University
 Home Institution: Swarthmore College
 Co-Authors: Obery Hendricks, Columbia University

HU**Moreno-Flores, Omar 11:00 AM, CC- 23**

Determining Variation in Chemical Composition between Nanoindenter Fiber Optics and Confocal Microscopy Setup in Raman Spectroscopy Using Lamellar and Woven Bone

Research Mentor: Virginia Ferguson
 Research Institution: University of Colorado Boulder
 Home Institution: Saint Martin's University
 Co-Authors: Andrew Tomaschke and Virginia Ferguson, University of Colorado Boulder

EN**Morton, Brielle 9:15 AM, CC-23**

Political Legitimacy in the Americas: A Comparative Study

Research Mentor: Noam Lupu
 Research Institution: Vanderbilt University
 Home Institution: University of Maryland-College Park
 Co-Authors: Noam Lupu and Oscar Castorena, Vanderbilt University

PE

Mouton, Meghan..... 12:30 PM, CC- 12*Non-Apoptotic Function of MCL-1 in Neural Progenitor Cells*

Research Mentor: Vivian Gama
 Research Institution: Vanderbilt University
 Home Institution: Xavier University of Louisiana
 Co-Authors: Vivian Gama and Alejandra Romero, Vanderbilt University

BB**Mugerwa, Michael..... 05:30 PM, CC- 17***Development of a Chromatographic and Electrophoretic Method for Separation, Purification, and Characterization of a Heterodimeric Fusion Protein*

Research Mentor: Yazen Jmeian
 Research Institution: Weill Cornell Medical College
 Home Institution: Columbia University
 Co-Authors: Yazen Jmeian, Paul Balderes and Ivo Lorenz, Weill Cornell Medical College

AB**Murati , Aida..... 05:30 PM, CC- 26***Black Americans' Concerns about White Americans' Motives Predict Anxiety During Speech*

Research Mentor: Niall Bolger
 Research Institution: Columbia University
 Home Institution: CUNY John Jay College of Criminal Justice
 Co-Authors: Lourdes Rohan, Yale University; Abdiel J. Flores, Columbia University; Niall Bolger, Columbia University

SS**Murrell, Asha..... 9:30 AM, CC-27***SDG Effects on Oxidative Stress and Inflammation in LPS-Treated Human Macrophages*

Research Mentor: Kelly Jordan-Sciutto
 Research Institution: University of Pennsylvania
 Home Institution: Spelman College
 Co-Authors: Ayanna Fourte, Spelman College; Kimberly Williams, Spelman College; Kelly Jordan Sciutto, University of Pennsylvania

BB**Narvaez Ramos, Michelle..... 9:00 AM, CC- 12***Necroptosis-Provoked Inflammation Induces DNA Damage in Mouse Models of Myelodysplastic Syndrome*

Research Mentor: Sandra Zinkel
 Research Institution: Vanderbilt University
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Authors: Sandra Zinkel, Teresa Dugger, Yuliya Hassan and Emily Green, Vanderbilt University

BB**Nath, Juhi..... 05:00 PM, CC- 25***The Effect of Curiosity-Promoting Instruction on Children's Question Asking*

Research Mentor: Jamie Jirout
 Research Institution: University of Virginia
 Home Institution: Clark University
 Co-Authors: Jamie Jirout, University of Virginia

SS**Nathoo, Isaac..... 12:15 PM, CC- 15***Effects of Cholesterol on Lipid Bilayer Properties*

Research Mentor: Olaf Andersen
 Research Institution: Weill Cornell Medical College
 Home Institution: Brown University
 Co-Authors: Thasin Peyear and Olaf S Andersen, Weill Cornell Medical College

BB**Nelson, Timothy 05:30 PM, CC- 24***Histories of the Relationship between Nonprofits and Foundations in the United States during the 20th Century*

Research Mentor: Paul Kramer
 Research Institution: Vanderbilt University
 Home Institution: Rhodes College
 Co-Authors: Paul Kramer, Vanderbilt University

HU**Norman Ing, Nainoa 9:15 AM, Captial Room 1***A Vision for Vaccines Built from Fully Synthetic Cell-Surface Antigens*

Research Mentor: Steven Townsend
 Research Institution: Vanderbilt University
 Home Institution: Chaminade University of Honolulu
 Co-Authors: Steven Townsend, Johny Nguyen and C. Elizabeth Adams, Vanderbilt University

PS**Nwankpa, Christina 11:00 AM, CC- 15***The Role of Afadin in Contact-Mediated Cell Polarization in C. elegans Embryos*

Research Mentor: Jeremy Nance
 Research Institution: New York University
 Home Institution: Tufts University
 Co-Authors: Allison Hall and Jeremy Nance, New York University

BB**Nyamaa, Atekana 12:15 PM, CC- 16***Studying The Functions Of Chromatin Modifications in Cerebellar Granule Cells During Development*

Research Mentor: Kärt Mätlik
 Research Institution: Weill Cornell Medical College
 Home Institution: Amherst College
 Co-Authors: Kärt Mätlik and Eve Govek, Weill Cornell Medical College

AB**Oatis, Garret..... 9:15 AM, CC- 22***Decolonizing Sexuality in Postcolonial Africa*

Research Mentor: John Echeverri-Gent
 Research Institution: University of Virginia
 Home Institution: Morehouse College
 Co-Authors: Jenifer Simons, University of Virginia

PE**Obi, Eunice 9:45 AM, CC- 12***Using Massively Parallel Sequencing to Characterize Tumor-Associated Genetic Alterations*

Research Mentor: Katherine Nathanson
 Research Institution: University of Pennsylvania
 Home Institution: The Lincoln University
 Co-Authors: Katherine Nathanson, University of Pennsylvania

BB**Ofonedu, Brian 12:15 PM, Captial Room 3***Discovering Causal Relationships Between Atmospheric Teleconnections Using Bayesian Networks*

Research Mentor: Jianwu Wang
 Research Institution: University of Maryland, Baltimore County
 Home Institution: Catholic University of America
 Co-Authors: Jianwu Wang, University of Maryland, Baltimore County

PS**Olivares, Carlos 11:15 AM, Captial Room 1***How Did the Sahara Become Dry?*

Research Mentor: Jung-Eun Lee
 Research Institution: Brown University
 Home Institution: University of Chicago
 Co-Authors: Jung-Eun Lee, Brown University

ES**Olulana, Faith..... 9:15 AM, Captial Room 2***Controllably Fabricating Super Tough Hybrid Hydrogels*

Research Mentor: YiFu Ding
 Research Institution: University of Colorado Boulder
 Home Institution: University of Maryland-College Park
 Co-Authors: YiFu Ding and Jaylene Martinez, University of Colorado Boulder

EN**Onyekwere, Oluomachi..... 9:45 AM, CC-25***The Effects of Histone H3.3 Serine 86 Mutations in Hematopoietic Stem Cells*

Research Mentor: Steven Josefowicz
 Research Institution: Weill Cornell Graduate School
 Home Institution: Cornell University
 Co-Authors: Steven Josefowicz and Arjun Ravishankar, Weill Cornell Medical College

BB**Oropeza, Edward 11:45 AM, CC- 11***The Analysis of an SRY-HMG Protein Binding to RNA*

Research Mentor: Robert Batey
 Research Institution: University of Colorado Boulder
 Home Institution: Fullerton College
 Co-Authors: Robert Batey and Desmond James Hamilton, University of Colorado Boulder

BB**Ostrow, Talia..... 05:30 PM, CC- 11***The Impact of NSD2 p.E1099K Mutation on the Clonal Evolution of Relapsed Acute Lymphoblastic Leukemia*

Research Mentor: William Carroll
 Research Institution: New York University
 Home Institution: Cornell University
 Co-Authors: Joanna Pierro, William Carroll, Nikki A. Evensen and Jason Saliba, New York University

BB**Otebele, Osarugue 11:15 AM, CC- 24***Why Run, Girl? An Analysis of Female Homosexuality in Nollywood Films*

Research Mentor: Abosede George
 Research Institution: Columbia University
 Home Institution: Spelman College
 Co-Authors: Abosede George, Columbia University

HU**Ovalle, Edwin 05:15 PM, CC- 11***Identify Conditions to Abolish the Generation of Copy Back Defective Viral Genome*

Research Mentor: Carolina Lopez
 Research Institution: University of Pennsylvania
 Home Institution: Temple University
 Co-Authors: Carolina Lopez and Yan Sun, University of Pennsylvania

AB**Ovando, Luis 03:45 PM, CC- 17***Visualizing Host-Pathogen Interactions in Vivo*

Research Mentor: Kamal Khanna
 Research Institution: New York University
 Home Institution: Rider University
 Co-Authors: Kamal Khanna, New York University

AB**Padilla, Luis 05:45 PM, CC- 11***CRISPR/Cas9-based Gene Editing To Create Cells In Which DNA Damage Detection Proteins Can Be Inducible or Constitutively Eliminated*

Research Mentor: Ben Black
 Research Institution: University of Pennsylvania
 Home Institution: University of Puerto Rico-Ponce
 Co-Authors: Jannine M. Dawicki-McKenna, Ramya Billur and Ben E. Black, University of Pennsylvania

BB**Pagan-Alemán, Edwin Francisco..... 10:00 AM, CC-23***Puerto Rico's Economy Through the Lens of Neocolonialism*

Research Mentor: Juan Negron-Ayala
 Research Institution: University of Virginia
 Home Institution: University of Puerto Rico-Bayamon
 Co-Authors: Jennifer Simons, University of Virginia

SS

Pajon, Mauricio..... 11:30 AM, CC- 23

Additive Manufacturing via Topology Optimization with Applied Shell-Lattice Structures

Research Mentor: Kurt Maute
 Research Institution: University of Colorado Boulder
 Home Institution: Florida International University
 Co-Authors: Jorge Luis Barrera Cruz, Kurt Karl Maute and Francisco Lopez Jimenez, University of Colorado Boulder

EN**Paredes, Isaac..... 10:30 AM, CC- 14**

Exploring Goal-Directed Decision Making Abnormalities in The Neurexin1 a Model of Neuropsychiatric Disease

Research Mentor: Marc Fuccillo
 Research Institution: University of Pennsylvania
 Home Institution: CUNY John Jay College of Criminal Justice
 Co-Authors: Marc Fuccillo and Opeyemi Alabi, University of Pennsylvania

AB**Parry, Crystal..... 10:15 AM, CC-27**

The Impact of IL-1 β - VEGF-A Signaling on Atherosclerotic Calcification

Research Mentor: Alan Morrison
 Research Institution: Brown University
 Home Institution: University of Maryland-Baltimore County
 Co-Authors: Cadence Lee, Joshua Berus, Christopher Mantsounga, Gaurav Chaudhary and Alan R. Morrison, Brown University

AB**Pennino, Samantha 12:00 PM, Captial Room 2**

Stormwater and Rain: Source of Nutrients to Upper Narragansett Bay?

Research Mentor: Meredith Hastings
 Research Institution: Brown University
 Home Institution: University of South Florida-Main Campus
 Co-Authors: Emily Joyce, Sophie Hibben and Meredith G. Hastings, Brown University

ES**Peruffo, Alexa 8:45 AM, Captial Room 2**

Nanomoulding of Single Crystalline Nanorods

Research Mentor: Jan Schroers
 Research Institution: Yale University
 Home Institution: Georgia Institute of Technology-Main Campus
 Co-Authors: Jan Schroers and Guannan Liu, Yale University

EN**Phillips-Jones, Taylor 05:15 PM, CC- 21**

A Virtual Reality Experimental Approach for Studying How the Brain Implements Attentive Behaviors

Research Mentor: Winrich Freiwald
 Research Institution: Weill Cornell Medical College
 Home Institution: Howard University
 Co-Authors: Ilaria Sani and Winrich Freiwald, Weill Cornell Medical College

AB**Plewa, Jack..... 03:00 PM, CC- 16**

Impact of Brucella Bacteriophage on Immune Cell Signaling

Research Mentor: Mark Jutila
 Research Institution: Montana State University
 Home Institution: North Central College
 Co-Authors: Amanda Robison, Larissa Jackiw, Deann T. Snyder, Jodi F. Hedges and Mark A. Jutila, Montana State University

AB**Ponce-Sepulveda, Alejandro..... 9:00 AM, CC-27**

Determining the Pathological Structural Interactions of Netrin-1 with the Extracellular Matrix in Aortic Aneurysms

Research Mentor: Bhama Ramkhelawon
 Research Institution: New York University
 Home Institution: Wayne State University
 Co-Authors: Tarik Hadi and Bhama Ramkhelawon, New York University

AB**Pope, Keighla..... 03:30 PM, CC- 25**

Spelman Transformations: Performing Antigone Through the Years

Research Mentor: Holly Smith
 Research Institution: Spelman College
 Home Institution: Claflin University
 Co-Authors: Holly Smith, Spelman College

HU**Potteiger, Nicholas 10:30 AM, Captial Room 1**

Studying AGN Host Galaxies From Hyper Supreme Cam By Removing AGN Point Sources Using Convolutional Neural Networks

Research Mentor: Meg Urry
 Research Institution: Yale University
 Home Institution: University of Maryland-Baltimore County
 Co-Authors: Meg Urry and Kaustav Mitra, Yale University

PS**Powell, Katherine 11:30 AM, CC- 25**

“Third Sermon on the Warpland:” Black Feminist Literary Imagination in 1970s Chicago

Research Mentor: Christopher Taylor
 Research Institution: University of Chicago
 Home Institution: Princeton University
 Co-Authors: Chris Taylor, University of Chicago

HU**Prier, Danielle 10:30 AM, CC-27**

Effects of Lumican-derived Peptides on Corneal Fibroblast and Macrophage Functions

Research Mentor: Shukti Chakravarti
 Research Institution: New York University
 Home Institution: Albany State University
 Co-Authors: Shukti Chakravarti, George Maiti, Vishal Shinde and Carly Lam, New York University

BB**Proenza, Diana..... 10:15 AM, CC- 21**

Matriarchs of Fiber Art: Motherhood and Mat-Making in Gapuwiyak

Research Mentor: Henry Skerritt
 Research Institution: University of Virginia
 Home Institution: New College of Florida
 Co-Authors: Henry Skerritt, University of Virginia

HU**Pulupa, Kathy 05:45 PM, CC- 24**

Queer Latina Duality Survivance Through Community Building

Research Mentor: Ana Minian
 Research Institution: Stanford University
 Home Institution: University of Southern California
 Co-Authors: Ana Raquel Minian, Stanford University

HU**Pyle, Daniel 9:30 AM, Captial Room 2**

Characterization of Nanosheets

Research Mentor: Hailiang Wang
 Research Institution: Yale University
 Home Institution: Rutgers University-Newark
 Co-Authors: Hailiang Wang and Yiren Zhong, Yale University

PS**Quah, Rammi..... 03:45 PM, CC- 26**

Phonological Convergence in Venetian and Friulian

Research Mentor: Rolf Noyer
 Research Institution: University of Pennsylvania
 Home Institution: Emory University
 Co-Authors: Rolf Noyer, University of Pennsylvania

SS**Quiles Ramirez, Yael 03:30 PM, CC- 13**

Contribution of Negative Checkpoint Regulator, VISTA, to Inflammatory Response and Survival in Murine Sepsis

Research Mentor: Chyna Gray
 Research Institution: Brown University
 Home Institution: University of Puerto Rico-Aguadilla
 Co-Authors: Chyna Gray and Alfred Ayala, Brown University

AB**Rall, Ursula..... 9:30 AM, CC- 22**

Fleeting Identities: Race, Gender, and Status among Seventeenth Century Afro-Mexican Women

Research Mentor: Mignon Moore
 Research Institution: Columbia University
 Home Institution: Bates College
 Co-Authors: Mignon Moore, Columbia University

HU**Ramos Figueroa, Alexandra 11:00 AM, CC- 21**

Grashof Numbers and Thermal Expansivity Model in Supercritical-Fluid Applications Based on the Peng-Robinson EoS

Research Mentor: Jian Qin
 Research Institution: Stanford University
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Authors: Antonio Estevez, Stanford University School of Engineering

EN**Ramos-Rodriguez, Leonardo..... 9:00 AM, CC-26**

Effects of Nicotine-Dependent Epigenetic Changes on Morphine Sensitization

Research Mentor: John Dani
 Research Institution: University of Pennsylvania
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: John A. Dani, Shannon Wolfman and Daniel Kalamarides, University of Pennsylvania

BB**Recoder, Natasha..... 11:15 AM, CC- 14**

Using Heart Rate Variability to Determine Sleep Stage in Patients with DOC

Research Mentor: Marcus Lambert
 Research Institution: Weill Cornell Graduate School
 Home Institution: Washington University in St Louis
 Co-Authors: Nicholas D. Schiff, Weill Cornell Medical College; Jackie L. Gottshall, Weill Cornell Graduate School

AB**Remuszka, Robert 03:00 PM, CC- 27**

Lean Season Loans: An Intervention to Alleviate Seasonal Poverty

Research Mentor: Ahmed Mobarak
 Research Institution: Yale University
 Home Institution: Rutgers University-Newark
 Co-Authors: Ahmed Mushfiq Mobarak, Yale University

SS**Rex, Madison 10:00 AM, CC- 13**

Leukemia Cell of Origin Influences p53 Activity and Therapeutic Sensitivity via an Evi1-Dependent Mechanism

Research Mentor: Ross Levine
 Research Institution: Weill Cornell Medical College
 Home Institution: The University of Texas at Austin
 Co-Authors: Sheng Cai and Ross Levine, Weill Cornell Medical College

BB**Reyes , Brian 05:15 PM, CC- 24**

Racial Capitalism and Justice in the City: Urban Community Development in Chicago, 1970s-1990s

Research Mentor: Omar McRoberts
 Research Institution: University of Chicago
 Home Institution: Yale University
 Co-Authors: Omar McRoberts, University of Chicago

HU

Ricard, Jordyn 12:15 PM, CC- 26

Using Smartphone Technology to Improve the Understanding and Real-Time Prediction of Suicidal Thinking

Research Mentor: Matthew Nock
 Research Institution: Harvard University
 Home Institution: Northwestern University
 Co-Authors: Shirley B. Wang, Daniel D.L. Coppersmith, Rebecca G. Fortgang and Matthew K. Nock, Harvard University

SS

Riggin, Jennifer 02:45 PM, CC- 21

The Isotope Dilution Method: A New Approach to Measuring the Isotopic Composition of Individual Planktonic Foraminifera

Research Mentor: Steven Clemens
 Research Institution: Brown University
 Home Institution: Tulane University of Louisiana
 Co-Authors: Steven Clemens, Kaustubh Thirumalai and Joseph Orchardo, Brown University

ES

Rivera, Gabriel 10:00 AM, CC- 21

From a History of Slavery to a History of the Slaves in Puerto Rico: a Study of its Possibilities and Implications

Research Mentor: B. Anthony Bogues
 Research Institution: Brown University
 Home Institution: University of Puerto Rico-Rio Piedras

HU

Rivera Lopez, Antonio 11:30 AM, Captial Room 3

Computational Identification of Amplification-Associated Noise in Nascent-RNA Data using Wavelet Analysis

Research Mentor: Robin Dowell
 Research Institution: University of Colorado Boulder
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Authors: Jacob Stanley and Robin Dowell, University of Colorado Boulder

PS

Rodríguez Bonilla, Laura 04:45 PM, CC- 11

Identification of Pathogenic DNA Repair Gene Mutations in Gleason Score Stratified Cohort Using Targeted Amplicon-Based Sequencing

Research Mentor: Kara Maxwell
 Research Institution: University of Pennsylvania
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Kara Maxwell, University of Pennsylvania

BB

Rodríguez-Villafañe, Andrea 9:30 AM, CC-26

Evaluation of AAV2 and AdHu5 Vectors for Cystic Fibrosis Gene Therapy

Research Mentor: Maria P. Limberis
 Research Institution: University of Pennsylvania
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Maria Limberis and Leah Kuntz, University of Pennsylvania

AB

Romero, David 11:00 AM, CC- 11

Cyclodipeptide Synthase Activity in Haliclona Sponge Symbiont

Research Mentor: Mohamed Donia
 Research Institution: Princeton University
 Home Institution: California State University-Northridge
 Co-Authors: Mohamed Donia and Jared Balaich, Princeton University

BB

Romero, Jesus 10:15 AM, CC- 14

SEAKER CAR T-Cells for Tumor Drug Delivery

Research Mentor: David Scheinberg
 Research Institution: Weill Cornell Graduate School
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Authors: David Scheinberg, Christopher Bourne and Thomas Gardner, Weill Cornell Graduate School

AB

Rosario, Erica 11:30 AM, CC- 15

The Effects of VitaminB12 Deficiency on Mitochondrial Folate - Mediated One Carbon Metabolism and mtDNA Integrity

Research Mentor: Martha Field
 Research Institution: Cornell University
 Home Institution: CUNY Hunter College
 Co-Authors: Martha Field, Cornell University

BB

Rosenfeld, Martin 12:15 PM, CC- 12

The Effects of Adeno-associated Virus on Immune Protein Levels in the Brain

Research Mentor: Christos Suriano
 Research Institution: Princeton University
 Home Institution: Cornell College
 Co-Authors: Christos Suriano, Betsy Vasquez and Lisa Boulanger, Princeton University

BB

Ross, Imani 11:15 AM, CC- 22

Targeted Lipidomics to Study Alzheimer's Disease

Research Mentor: Renā Robinson
 Research Institution: Vanderbilt University
 Home Institution: Howard University
 Co-Authors: Renā Robinson and Mostafa Khan, Vanderbilt University

PS

Roye, Yasmin 10:00 AM, CC-26

The Effects of NPR-C Ligand Binding on Neutrophil Transit Through Lung Capillary Constriction Device

Research Mentor: Craig Lefort
 Research Institution: Brown University
 Home Institution: University of Maryland Eastern Shore
 Co-Authors: Craig Lefort and Brittany Neumann, Brown University

BB

Rubalcava, Valerie 03:30 PM, CC- 21

The Future of El Niño: Cross-Validating Stable Isotopes and Mg/Ca Measurements On Individual Foraminifera

Research Mentor: Thomas Marchitto
 Research Institution: University of Colorado Boulder
 Home Institution: University of Wisconsin-Milwaukee
 Co-Authors: Thomas Marchitto, University of Colorado Boulder

ES

Rubin, Jeremy 9:45 AM, Captial Room 1

Letting the LaxKAT out of the Bag: Packaging, Simulation, and Neuroimaging Data Analysis for a Powerful Kernel Test

Research Mentor: Russell Shinohara
 Research Institution: University of Pennsylvania
 Home Institution: University of Maryland-Baltimore County
 Co-Authors: Russell Shinohara, University of Pennsylvania

PS

Ruiz Gonzalez, Jorge 03:15 PM, CC- 21

Predicting Noble Gas Solubility in Silicates

Research Mentor: Stephen Parman
 Research Institution: Brown University
 Home Institution: Sonoma State University
 Co-Authors: Stephen W. Parman, Brown University

ES

Saavedra, Sara 05:00 PM, CC- 12

Epigenetic Influences of Parental Cocaine Self-Administration in Rats

Research Mentor: Robert Christopher Pierce
 Research Institution: University of Pennsylvania
 Home Institution: Emory University
 Co-Authors: Sarah E. Swinford-Jackson, Bruno Fant, Mathieu E. Wimmer and R. Christopher Pierce, University of Pennsylvania

BB

Salazar, Andrea 12:00 PM, Captial Room 1

Modeling the Role of Volcanism in the Past 20 Million Years of Global Cooling

Research Mentor: Timothy Herbert
 Research Institution: Brown University
 Home Institution: University of Chicago
 Co-Authors: Weimin Si, Timothy Herbert, Colleen Dalton and Alberto Saal, Brown University

ES

Sanchez, Alexander 03:00 PM, CC- 26

What do People Enjoy Talking About in Conversations?

Research Mentor: Tim Wilson
 Research Institution: University of Virginia
 Home Institution: Keck Graduate Institute
 Co-Authors: Tim Wilson and Quinn Hirschi, University of Virginia

SS

Sanchez, Shania 10:00 AM, CC- 11

The RotaTeq Vaccine Elicits a Broader Neutralizing Antibody Response Against Contemporary Rotavirus Outer-Capsid Proteins than the Rotarix Vaccine

Research Mentor: Kristen Ogden
 Research Institution: Vanderbilt University
 Home Institution: University of New Mexico-Main Campus
 Co-Authors: Maximilian Carter, Julia Diller, Yuta Kanai, Takeshi Kobayashi and Kristen Ogden, Vanderbilt University

BB

Sanchez Suarez, Iris 11:30 AM, CC- 24

Do Fathers Matter? The Relationship Between Paternal Interaction and Play Behaviors in Girls

Research Mentor: Jamie Jirout
 Research Institution: University of Virginia
 Home Institution: DePaul University
 Co-Authors: Jamie Jirout, University of Virginia

SS

Santiago Garcia, Angel 12:00 PM, Captial Room 3

Traffic Analysis for the Boston Metropolitan Area Using Big Data

Research Mentor: Shan Jiang
 Research Institution: Tufts University
 Home Institution: University of Puerto Rico-Arecibo
 Co-Authors: Shan Jiang and Yuehue Li, Tufts University

ES

Schroeder, Erin 05:15 PM, CC- 14

Identification and Characterization of Commensal MRSA Inhibitors

Research Mentor: Laurice Flowers
 Research Institution: University of Pennsylvania
 Home Institution: Gettysburg College
 Co-Authors: Laurice Flowers and Elizabeth Grice, University of Pennsylvania

AB

Seong, Yuna 04:45 PM, CC- 25

Children's Emotional Regulation and Emotional Support in Pre-K Classrooms

Research Mentor: Khara Turnbull
 Research Institution: University of Virginia
 Home Institution: University of California-Santa Barbara
 Co-Authors: Khara Pence Turnbull, University of Virginia

SS

Sepulveda, Renato 9:15 AM, CC- 21

Colonizing the Great Frontier; Urbanization Policy and its Impact on Socioeconomic Displacement in the Pacific Northwest

Research Mentor: Resney Gugwor
 Research Institution: University of Chicago
 Home Institution: Heritage University
 Co-Authors: Resney Gugwor, University of Chicago

SS

Sharp, Sydney 10:00 AM, CC- 24*Associations Between Low Socioeconomic Status and Fetal Functional Connectivity*

Research Mentor: Moriah Thomason
 Research Institution: New York University
 Home Institution: University of Maryland-College Park
 Co-Authors: Moriah E. Thomason, Carly J. Lenniger and Claudia Espinoza-Heredia, New York University

SS

Shastri, Sachi 11:00 AM, CC- 26*Substance Use Policies, Opioid Use Disorder in Pregnant Women, and Adverse Birth Outcomes: A Comprehensive Literature Review*

Research Mentor: Ellen Caniglia
 Research Institution: New York University
 Home Institution: University of Georgia
 Co-Authors: Ellen Caniglia, New York University

SS

Shatela, Sara 03:30 PM, CC- 16*Investigating the Effects of Astrocytic TDP-43 Mislocalization on Chemokine Signaling*

Research Mentor: Anna Orr
 Research Institution: Weill Cornell Graduate School
 Home Institution: California State University-Northridge
 Co-Authors: Anna Orr, Adam Orr, Avital Licht Murava, Samantha Meadows and Fernando Palaguachi, Weill Cornell Medical College

BB

Simmonds, Faith 10:00 AM, CC-25*Mono-(2-ethylhexyl) Phthalate Toxicity in Cultured Fetal Mouse Ovary*

Research Mentor: Daniel Spade
 Research Institution: Brown University
 Home Institution: Howard University
 Co-Authors: Daniel Spade, Brown University

BB

Simmons, Autumn 10:45 AM, CC- 21*The Pressure You Know I Feel: an Analysis of Beyoncé's Homecoming and the Societal Anxieties Around Black Women's Excellence*

Research Mentor: Shayoni Mitra
 Research Institution: Columbia University
 Home Institution: Spelman College
 Co-Authors: Shayoni Mitra, Columbia University

SS

Slane, Cecilia 03:15 PM, CC- 24*Valuing the Alaskan Wilderness: an Analysis of the Writings of John Muir and W.H. Dall*

Research Mentor: Bathsheba Demuth
 Research Institution: Brown University
 Home Institution: DePauw University
 Co-Authors: Bathsheba Demuth, Brown University

HU

Sledge, Angel 11:30 AM, CC- 26*The Political Perspective of the Effect of Mental Health on Education*

Research Mentor: Ryan Russell
 Research Institution: University of Virginia
 Home Institution: North Carolina A & T State University
 Co-Authors: Ryan Russell, University of Virginia

PE

Smith, Jamila 11:00 AM, Captial Room 2*What the Lake Says: Assessing Temperature and Precipitation Changes in Eastern Africa since the LGM Using Sediment Cores from Lake Mahoma, Rwenzori Mountains, Uganda*

Research Mentor: Sloane Garelick
 Research Institution: Brown University
 Home Institution: SUNY at Fredonia
 Co-Authors: Sloane Garelick and James Russell, Brown University

PS

Soudachanh, Amy 11:45 AM, CC- 21*Nonlinear Kinetic Inductance Devices for Future Millimeter Wave Detection*

Research Mentor: Erik Shirokoff
 Research Institution: University of Chicago
 Home Institution: University of New Mexico-Main Campus
 Co-Authors: Erik Shirokoff, University of Chicago

PS

Spurgeon, Kelyah 05:00 PM, CC- 13*Attenuation of the Bacterial Interference S. aureus strain 502A: Deletion of Alpha-hemolysin*

Research Mentor: Kelyah Spurgeon
 Research Institution: University of Pennsylvania
 Home Institution: North Carolina A & T State University
 Co-Authors: Paul Planet, University of Pennsylvania

AB

Stanton, Jacob 8:45 AM, Captial Room 3*Constructing an Emulator of Cosmic Void Size Distribution and Void-galaxy Cross Correlation Using N-body Simulations of Dark Matter*

Research Mentor: Risa Wechsler
 Research Institution: Stanford University
 Home Institution: Brown University
 Co-Authors: Risa Wechsler and Arka Banerjee, Stanford University

PS

Starks, Austin 05:15 PM, CC- 12*Phenotypic Consequences of Mendelian Mutations in Human Zinc Finger Proteins*

Research Mentor: Mona Singh
 Research Institution: Princeton University
 Home Institution: Cornell University
 Co-Authors: Mona Singh and Anton Persikov, Princeton University

AB

Starks, Justin 11:45 AM, CC- 22*Reconstructing Cell Lineages From Single-Cell Transcriptomic Data*

Research Mentor: Michael Levine
 Research Institution: Princeton University
 Home Institution: Cornell University
 Co-Authors: Michael Levine, Princeton University

PS

Swann, Isaiah 03:45 PM, CC- 15*Jedi-1 Deficiency Alters Sensory Neuron Excitability through a Non-Cell Autonomous Mechanism*

Research Mentor: Alexandra Trevisan
 Research Institution: Vanderbilt University
 Home Institution: The University of Texas at Dallas
 Co-Authors: Alexandra Trevisan and Bruce Carter, Vanderbilt University

BB

Sylvester-Costello, James 04:00 PM, CC- 27*Are Historical Industrial Sites Spatially Related to Contemporary Green Spaces?*

Research Mentor: Scott Frickel
 Research Institution: Brown University
 Home Institution: CUNY Brooklyn College
 Co-Authors: Thomas Marlow and Scott Frickel, Brown University

SS

Tafoya, David 11:15 AM, CC- 11*Endomucin: A Potential Regulator of EGFR and FGFR-1 Internalization in Angiogenesis*

Research Mentor: Zhengping Hu
 Research Institution: Harvard University
 Home Institution: University of Arizona
 Co-Authors: Zhengping Hu and Patricia D'Amore, Harvard University Div. of Medical Sciences

BB

Talana, Chloe Adrienna 12:30 PM, CC- 14*The Role of DExD/H-Box Helicase 60 as a Specific Viral Internal Ribosome Entry Site Inhibitor*

Research Mentor: Meike Dittmann
 Research Institution: New York University
 Home Institution: Chaminade University of Honolulu
 Co-Authors: Mohammad Sadic and Meike Dittmann, New York University

BB

Thompson, Hunter 12:00 PM, CC- 15*Investigating Bilayer Stability in Myxococcus xanthus*

Research Mentor: Katherine Copenhagen
 Research Institution: Princeton University
 Home Institution: University of Chicago
 Co-Authors: Joshua Shaevitz and Katherine Copenhagen, Princeton University

BB

Thompson, Precious 11:00 AM, CC- 24*Perfecting Blackness: An Analysis of Black Respectability and Security in Angie Thomas' The Hate U Give*

Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Home Institution: Tougaloo College
 Co-Authors: Natalie Strobach, Johns Hopkins University

HU

Tomlinson, DeAndre 10:15 AM, Captial Room 1*The Computational Validation of RNA Splice Sites in Next Generation Sequencing*

Research Mentor: Olga Troyanskaya
 Research Institution: Princeton University
 Home Institution: University of Notre Dame
 Co-Authors: Olga Troyanskaya and Evan Cofer, Princeton University

PS

Trujillo, Diego 11:30 AM, CC- 11*Mechanical and Thermodynamic Stability of Virulence Effector Proteins and the Role in Secretion by the Type 3 Secretion System*

Research Mentor: Marcelo Sousa
 Research Institution: University of Colorado Boulder
 Home Institution: University of New Mexico-Main Campus
 Co-Authors: Marcelo Sousa, Katherine DaPron and Morgan Fink, University of Colorado Boulder

BB

Tumbaco, Emily 11:45 AM, CC- 23*Trifluoromethanesulfonic Anhydride Mediated Electrophilic Ester Activation to Form Alkyl Enol Ethers*

Research Mentor: Erik Sorensen
 Research Institution: Princeton University
 Home Institution: Monmouth University
 Co-Authors: Erik Sorensen and Nicholas Garcia, Princeton University

PS

Turner, Kailen 05:45 PM, CC- 25*Vroom: an Approach to Early Literacy Development in Sunset Park, Brooklyn*

Research Mentor: Bonnie Kerker
 Research Institution: New York University
 Home Institution: Clark Atlanta University
 Co-Authors: Bonnie Kerker, Hannah Gartner and Julie Katter, New York University

SS

Turner, Lauren 9:30 AM, CC- 13*Examining the Effects of Acyl-CoA Synthetase Bubblegum Family Member 1 on Breast Cancer Proliferation in the Obese Microenvironment*

Research Mentor: Paul Cohen
 Research Institution: Weill Cornell Medical College
 Home Institution: University of Maryland-Baltimore County
 Co-Authors: Paul Cohen and Olivia Maguire, Weill Cornell Medical College

BB

Vales-Torres, Xariana..... 05:00 PM, CC- 14*T Cell Cross-reactivity in HIV: Kinetics of Varied Peptide Sequences*

Research Mentor: Jun Huang
 Research Institution: University of Chicago
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: Jun Huang, University of Chicago; Laura Pulido, University of Chicago; Laura Su, University of Pennsylvania; Naomi Pacalin, Stanford University

BB**Varner, Baldwin-Akin 9:45 AM, Captial Room 2***Analyzing the Hidden Charge Density Wave Phase in TaSe2*

Research Mentor: Margaret Murnane
 Research Institution: University of Colorado Boulder
 Home Institution: Norfolk State University
 Co-Authors: Emma Cating, Xun Shi, Christian Gentry, Wenjing You and Yingchao Zhang, University of Colorado Boulder

PS**Vázquez, Luis..... 9:15 AM, CC- 14***An Injectable, Radiopaque, Drug-eluting Hydrogel as an Embolic Agent for Interventional Radiology Treatment of Hepatocellular Carcinoma*

Research Mentor: David Cormode
 Research Institution: University of Pennsylvania
 Home Institution: University of Puerto Rico-Rio Piedras
 Co-Authors: David Cormode and Yuxi Dong, University of Pennsylvania

AB**Verma, Serena..... 10:15 AM, CC- 11***The Effect of ELAVL2 Deletion on Tumorigenesis in Embryonic Stem Cell Derived Organoids*

Research Mentor: Lincoln Edwards
 Research Institution: Weill Cornell Graduate School
 Home Institution: University of Connecticut
 Co-Authors: Lincoln Edwards, Weill Cornell Medical College

BB**Villavasso, Kensley..... 8:45 AM, CC-27***Expressing and Purifying Parasite Antigen pfGARP: Towards a Novel Vaccine for Plasmodium Falciparum*

Research Mentor: Sunthorn Pond-Tor
 Research Institution: Brown University
 Home Institution: Xavier University of Louisiana
 Co-Authors: Sunthorn Pond-Tor, Sovanny Pond-Tor and Jonathan D. Kurtis, Brown University

AB**Vinson, Essence..... 11:45 AM, CC- 15***Can Dendritic Cells Express IL-33 in Distinct Intracellular Compartments?*

Research Mentor: De'Broski Herbert
 Research Institution: University of Pennsylvania
 Home Institution: Coppin State University
 Co-Authors: De'Broski R. Herbert, University of Pennsylvania

AB**Walker, Malik 10:00 AM, Captial Room 3***Geophysical Investigation of Lunar Impact Craters with Anomalous Gravitational Signatures*

Research Mentor: Alexander Evans
 Research Institution: Brown University
 Home Institution: Princeton University
 Co-Authors: Alexander Evans and Emily Bjonnes, Brown University

ES**Wallace, Sierra..... 03:00 PM, CC- 15***The Effects of Stimulating the vmPFC to BMA Neuronal Pathway on Conditioned Fear Extinction Learning in Rats*

Research Mentor: Robert Spencer
 Research Institution: University of Colorado Boulder
 Home Institution: University of Maryland-Baltimore County
 Co-Authors: Robert Spencer, J. Russell Ravenel, Luke Millisor, Cate Levy and Rebecca Rasmussen, University of Colorado Boulder

BB**Wallace, Taylor 10:15 AM, CC- 12***Overcoming Resistance to Radiotherapy in a PTEN-Knockout Breast Cancer Model*

Research Mentor: Wen Shen
 Research Institution: Weill Cornell Medical College
 Home Institution: Southern Methodist University
 Co-Authors: Xinyi Fan and Qian-Ting Tian, Weill Cornell Medical College; Wen Shen, Weill Cornell Graduate School

BB**Walls, Jaelynn 03:00 PM, CC- 24***U.S. Latinx and African-American Artist Collections at Stanford University: a Case Study*

Research Mentor: Rose Salseda
 Research Institution: Stanford University
 Home Institution: The University of Texas at Austin
 Co-Authors: Rose Salseda, Stanford University School of Humanities & Sciences

HU**Weekes, Shealtiel 10:30 AM, CC-24***Understanding Relationships Between Perceived Racial/Ethnic Discrimination and Youth Outcomes: Community Cohesion as a Protective Factor*

Research Mentor: Kristen Jacobson
 Research Institution: University of Chicago
 Home Institution: Howard University
 Co-Authors: Kristen Jacobson, University of Chicago

SS**White, Jira..... 11:30 AM, CC- 12***Analysis of BMP Type II Receptor Functions in Early Embryonic Axial Patterning*

Research Mentor: Mary Mullins
 Research Institution: University of Pennsylvania
 Home Institution: Clafin University
 Co-Authors: Benjamin Tajer and Mary Mullins, University of Pennsylvania

BB**Wiggins, Edward 9:30 AM, CC-24***How Does the 'Equity Ethic' Manifest in Engineering and Computing Spaces for Black Doctoral Students?*

Research Mentor: Ebony McGee
 Research Institution: Vanderbilt University
 Home Institution: Xavier University of Louisiana
 Co-Authors: Ebony McGee, Dara Naphan-Kingery, Devin T. White and Monica Ridgeway, Vanderbilt University

SS**Wiley-Yancy, Destiny..... 10:45 AM, CC- 22***Detained Black Women in Freedom Struggles in the United States and South Africa: a Case Study of Ericka Huggins and Theresa Ramashamola*

Research Mentor: Stephen Pitti
 Research Institution: Yale University
 Home Institution: Smith College
 Co-Authors: Stephen Pitti, Yale University

HU**Williams, Darnell 9:30 AM, Captial Room 1***Characterizing Interindividual Variability In Transcranial Magnetic Stimulation (TMS)-Evoked Funciional Magnetic Resonance Imaging (fMRI) Responses using Diffusion Tensor Imaging*

Research Mentor: Conor Liston
 Research Institution: Weill Cornell Medical College
 Home Institution: Wright State University-Main Campus
 Co-Authors: Katharine Dunlop and Conor Liston, Weill Cornell Medical College

PS**Williams, Hastings..... 05:30 PM, CC- 14***Crop Reproduction for our Changing Climate*

Research Mentor: Mark Johnson
 Research Institution: Brown University
 Home Institution: Tougaloo College
 Co-Authors: Benjamin Styler and Mark Johnson, Brown University

BB**Williams, Kevin..... 04:00 PM, CC- 16***Crosstalk Between Oxytocin and BDNF TrkB Receptors*

Research Mentor: Moses Chao
 Research Institution: New York University
 Home Institution: University of Georgia
 Co-Authors: Moses V. Chao, New York University

BB**Williams, Lorryaya..... 11:00 AM, Captial Room 3***Using Machine Learning to Mine Medical Notes and Transcripts*

Research Mentor: Sanjay Purushotham
 Research Institution: University of Maryland, Baltimore County
 Home Institution: Calvin College
 Co-Authors: Sanjay Purushotham, University of Maryland, Baltimore County

PS**Williams, Melvin 05:00 PM, CC- 11***Genetic Regulation in the Elimination of Morphologically Complex Cells*

Research Mentor: Piya Ghose
 Research Institution: Weill Cornell Medical College
 Home Institution: California State University-Fullerton
 Co-Authors: Piya Ghose and Shai Shaham, Weill Cornell Medical College

BB**Windsorski, Amelia..... 02:45 PM, CC- 13***Characterizing Social Memory in Shank3 Deficient Mouse Pups*

Research Mentor: Elizabeth Gould
 Research Institution: Princeton University
 Home Institution: Smith College
 Co-Authors: Elizabeth Gould, Elise Cope and William Meara, Princeton University

BB**Wise, Jordan..... 05:15 PM, CC- 13***Effect of Cluster Randomized Trial Insecticide Treated Durable Wall Linings on Plasmodium falciparum Population in Liberia*

Research Mentor: Jeffery Bailey
 Research Institution: Brown University
 Home Institution: Xavier University of Louisiana
 Co-Authors: Jeffrey Bailey, Patrick Marsh, Deborah Chin and Ozkan Ayedmir, Brown University

AB**Woo, Alexandra..... 8:45 AM, CC- 14***Cell Growth Rate in Gene-Edited Neuroblastoma under Hypoxic and Normoxic Environments*

Research Mentor: Lucy Godley
 Research Institution: University of Chicago
 Home Institution: Cornell University
 Co-Authors: Lucy Godley and Anastasia Haines, University of Chicago

BB

Wu, Kate 11:45 AM, CC- 27

How Religion Impacts Risk Perception and Decision Making
 Research Mentor: Maurice Schweitzer
 Research Institution: University of Pennsylvania
 Home Institution: SUNY at Binghamton
 Co-Authors: Maurice Schweitzer and Chelsea Schein,
 University of Pennsylvania
SS

Yang, A...... 9:15 AM, CC-26

Reward Expectation from Cocaine Conditioned Place Preference in Mice Predicting Dopaminergic Terminal Activity
 Research Mentor: Ilana Witten
 Research Institution: Princeton University
 Home Institution: University of Wisconsin-Green Bay
 Co-Authors: Weston Flemming and Ilana Witten, Princeton University
AB

Youssef, Merna 12:15 PM, Captial Room 2

The Importance of Condensing versus Noncondensing Greenhouse Gases for Earth's Habitability
 Research Mentor: Tiffany Shaw
 Research Institution: University of Chicago
 Home Institution: CUNY City College
 Co-Authors: Tiffany Shaw and Zhihong Tan, University of Chicago
PS

Youssef, Zenab 11:00 AM, CC- 27

Queer Muslim Diasporic Subjectivity
 Research Mentor: Hanadi Al-Samman
 Research Institution: University of Virginia
 Home Institution: Brown University
 Co-Authors: Hanadi Al-Samman, University of Virginia
SS


Zaragoza, Nicole..... 9:15 AM, CC- 13

Role of p19Arf in Fibroblast Activation in the Tumor Microenvironment
 Research Mentor: Sandra Ryeom
 Research Institution: University of Pennsylvania
 Home Institution: University of Puerto Rico-Mayaguez
 Co-Authors: Kerry Roby and Sandra Ryeom, University of Pennsylvania
BB



Poster Presentations by Number

1	Nina Wallace	PE	<i>Are Healthcare Providers Obligated to Care for Patients with Potentially Transmissible and Lethal Infectious Diseases?</i>
2	Zharia Thomas	SS	<i>Investigating The Moderating Role Of Racial Friendship Composition On Self-Esteem And Sexual Self-Concept Among Black Women</i>
3	Cristina Santos	SS	<i>Opening The Door To All During Office Hours</i>
4	Caroline Knuth	SS	<i>Is There a Need to Count More Sheep? Examining the Link Between Infant Sleep, Temperament, and Positive Affect</i>
5	Lewis Rincon Castano	SS	<i>What Are Argentinean Public Schools Teaching Their Students About Citizenship Education? : A Textbook Analysis of Argentinean Civics Education in 2015</i>
6	Vincent Rice	SS	<i>Amplification in Evaluation of Group's Emotions</i>
7	Shiloah Coley	SS	<i>Beyond the Walls: How Black Youth in Graffiti Crews in Toronto Perceive Their Roles in Society and Community Spaces</i>
8	Onyul Haque	SS	<i>When Opinions are Treated as Knowledge</i>
9	Afraah Boateng	SS	<i>Education for All and Private Education Expenditures</i>
10	Brendan Otani	EN	<i>Implementation of Coughing and Breathing Simulations on a Biomechanical Surrogate Abdomen</i>
11	Naomi Nelson	EN	<i>Biodegradable, Injectable, and Thermosensitive NIPAAm-based Hydrogels for Controlling Drug Delivery in Cell Therapy</i>
12	Carlos Souffrain	EN	<i>Improving Physical Human Robot Collaboration Through Nonverbal Communication of Task Relevant Cues</i>
13	Morgan Jones	EN	<i>Advances in the NOAA Data Assimilation Facility</i>
14	German Saltar-Rivera	EN	<i>Developing Notebook-based Flow Visualization and Analysis Modules for Computational Fluid Dynamics</i>
15	Daryl Wilson	EN	<i>Discrimination of C. reinhardtii Mutations Using Acoustic Trap and Release for PCD Identification</i>
16	Helene Mbonda	EN	<i>Automating the Center-Out Reaching Task to Reduce Variability in Neural Recordings</i>
17	Raven Morris	EN	<i>Augmented Reality: An Innovative Tool for Civil Engineering Inspections</i>
18	Adrian Martinez	EN	<i>Mineral Scaling in Solar-Driven Membrane Distillation</i>
19	Matthew Suazo	EN	<i>Solar-Driven Membrane Distillation with an Engineered Heat Recovery System</i>



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20	Tyres Glisan	EN	<i>Thick All Active Material Battery Electrodes</i>
21	Shelby Hall	EN	<i>Exploring the Structural Relaxation of Liquid Crystal Elastomers</i>
22	Jayda Jones	EN	<i>Using Mixed Reality to Visualize the Electrophysiological Activity of the Uterine Surface</i>
23	Eric Hagerman	EN	<i>Predicting Residential Displacement in Urban Areas: a Data-Driven Investigation of Abandonment and Gentrification in Baltimore, Maryland</i>
24	Sabrina Stenberg	EN	<i>The Characterization of Doped Titanium Dioxide Nanomaterials as Anodes for Lithium-ion Batteries</i>
25	Giovanni Alvarez	EN	<i>Battery Cooling Enhancement for Electric Aircraft using a Self-Oscillating Sweeping Jet</i>
26	Maxwell Dimgba	EN	<i>Battery Cooling Enhancement for Electric Aircraft Using a Self-Oscillating Sweeping Jet</i>
27	Jamall Brown	EN	<i>Pitch-Angle Adjustment for Coupled Inflow and Structural Dynamics of Coaxial Rotors</i>
28	Nathaniel Rodriguez	EN	<i>Simulating a Superlens: The Unexpected Dielectric Optical Equivalence of a Metallic Grating</i>
29	Reid Chunn	EN	<i>Creating a Micro Stepping Apparatus using Arduino/Matlab</i>
30	Alexis Rivera	EN	<i>Pitch-Angle Adjustment for Coupled Inflow and Structural Dynamics of Coaxial Rotors</i>
31	Kierra Wilk	ES	<i>Isotopic and Experimental Insights on the Mechanisms of Pyrite Oxidation</i>
32	Macy Petrula	ES	<i>Identifying Heterobranchs and Vetigastropods by Use of Barcoding</i>
33	Nicole Márquez	ES	<i>Evolution of Ovariole Numbers in Insects</i>
34	Lolya McWest	ES	<i>Effects of Aqueous and Solid Sulfates on Portland Cements and Their Impacts on Mechanical Properties under Geologic CO2 Sequestration Conditions</i>
35	Molly Beck	ES	<i>Interrogating Transcriptional Adaptations to Stress in an Extremophile Community</i>
36	Alissandra Ayala	ES	<i>Temperate Forests! How Climate Change Affects Growth and Phenology</i>
37	Lisete Melendez	ES	<i>North Polar Layered Deposits on Mars: Investigating the Effect of Perennial Dust Deposits on Water Ice Sublimation</i>
38	Emma Riccardi	ES	<i>Impact of Oxygen on an Iron and Sulfur Oxidizing Microbe</i>
39	Aariella Houston	PS	<i>Nano-catalysts for Glycerol Oxidation</i>
40	Raymundo Mora	PS	<i>The Evolutionary History of the Triangulum Galaxy From Deep Photometry of Its Globular Clusters</i>
41	Chloe Merriweather	PS	<i>Determining Mass and Tidal Disruption in NGC7089 Using Global Astrometric Interferometer for Astrophysics (GAIA) Telescope</i>
42	Reina Luna	PS	<i>Electrocatalytic Water Oxidation Mediated by Cobalt Complexes</i>
43	Logan Ramsey	PS	<i>Front End Amplitude and Phase Stability Data Processor</i>
44	Diego Marcano	PS	<i>Multivariate Time Series Data Visualization</i>
45	Nina Warren	PS	<i>Using Global Astrometric Interferometer for Astrophysics Telescope Data To Calculate Mass and Tidal Disruption in NGC7099</i>
46	Kendra Washington	PS	<i>Effect of Raw Ultrasound Data Downsampling on Cyst Segmentation with Deep Neural Networks</i>

47	Samuel Coates	PS	<i>The Synthesis and Characterization of Group 2 - Carbene Compounds</i>
48	Austin Red Wing	PS	<i>Evolutionary Dynamics of Neural Networks</i>
49	Jose Arita-Escalante	PS	<i>Bending Of Light In Exoplanet Atmospheres</i>
50	Marino Echavarría	PS	<i>A Low Memory MPC Algorithm for the Minimum Cut</i>
51	Diego Candelaria	PS	<i>Towards Quantum Gas Microscopy of Lithium</i>
52	Meretta Hanson	PS	<i>Predicting the Effect of Protein Copy Number Changes on the Function of Clathrin-mediated Endocytosis Across Cell Types</i>
53	Christian Gonzalez	AB	<i>App Development for Mobile PET-based Tumor Segmentation Methods</i>
54	Princess Bush	AB	<i>The Creation of Neisseria Gonorrhoeae Strains Constitutively Expressing Single Opa Proteins</i>
55	Brenda Cesar	AB	<i>Characterization of a FUS Mutation (Y526C) Commonly Found in Young ALS Patients</i>
56	Roberto Sotomayor-Mena	AB	<i>Unraveling Chemotherapy Induced Pyroptosis in the SH-SY5Y Neuroblastoma Cell Line</i>
57	Melissa Cadena	AB	<i>In vitro Protein Synthesis in Nano-scaled Unilamellar Liposomes</i>
58	Gianna Davis	AB	<i>Investigating the Brain Reward Circuit in a Preclinical Rat Model of Co-Occurring Schizophrenia and Substance Use Disorder</i>
59	Amanda Acosta	AB	<i>The Role of Gender in Smooth Muscle Cells Phenotypic Switching in Late Stage Atherosclerosis</i>
60	Darin Gilchrist	AB	<i>Characterization of CDK12 Protein Inhibitor in Osteosarcoma</i>
61	Theodore Colbert	AB	<i>Xfeb Gene Involvement in Neural Crest Development</i>
62	Ronel Ghidey	AB	<i>Distribution of Area-Level Socioeconomic Status Among a Select Population of the NA-ACCORD</i>
63	Natalie Lopez Rivera	AB	<i>Behavioral and Physiological Measurement of Neural Network Vulnerability to Apolipoprotein E Genotypes</i>
64	Larisa Diaz	AB	<i>Effects of Okadaic Acid on Paclitaxel Efficacy in Cancer Therapy</i>
65	Princess Ekpo	AB	<i>The Efficacy of a Dedicated Tobacco Dependence Treatment Center in an Academic Hospital</i>
66	Daneri Fuentes	AB	<i>The Influence Of Opioid Treatment Provider Attitudes On Skill And Knowledge After Contingency Management Training</i>
67	Barbara Hernandez Rovira	AB	<i>Assessment of Pancreatic Islet Grafts Survival by Immunostaining</i>
68	Samuel Crowl	AB	<i>Assessing the Fidelity of Engineered Neuron Protocols using singleCellNet</i>
69	Emily Fitzgerald	AB	<i>Air Pollution Differences between Two Socioeconomically Diverse Communities within Baltimore City, Maryland</i>
70	Elizabeth Ferrer	AB	<i>Characterization of Differentiation and Immune Markers in Patient-Derived Organoids of Pancreatic Cancer</i>
71	Briana Cooper	AB	<i>PTP4A3 Phosphatase Regulation of Human Acute Myeloblastic Leukemia Cell Cycle Progression</i>
72	Adjoa Osei-Ntansah	AB	<i>Investigating the Role of Acinetobacter junii and Escherichia coli in the Efficacy of HIV Treatment</i>
73	Michael Santiago Castro	AB	<i>Anti-inflammatory Effects of Conditioned Medium of Periodontal Ligament Stem Cells on Chondrocytes</i>

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74	Alexander Lee	AB	Improving the Algorithm to Detect Stove Use in the Cardiopulmonary and Household Air Pollution (CHAP) trial
75	Hosam Arammash	AB	Investigating the Role of Androgen Receptor in M2 Macrophage Gene Activation in Allergic Lung Inflammation
76	Sebastian Somolinos	AB	Novel Methods for Investigating P53 Mediated Transcriptional Regulation
77	Raquel Taborga	AB	The Effects of Antiretroviral Therapeutics on the Morphology and Stability of Self-assembling Peptides
78	John Quezada	AB	Nanofiber Optimization in 3D Hyaluronic Acid (HA) Hydrogels
79	Elijah Korneffel	AB	A Minimally Invasive Approach for Long-term Electrophysiological Recordings in Freely-behaving Insects
80	Jose Navarro Arriola	AB	Probing Vps Proteins in the Human Malaria Parasite Plasmodium Falciparum
81	Jenna Nosek	AB	Characterization of Novel Strain in Human Parasite Trichomonas Vaginalis Virus
82	Malcolm Hope	AB	Examination Of Viral Replication In Lung Macrophages After Exposure To Influenza A
83	Dariana Sanchez-Flores	AB	Immature Neurons Population in Pediatric HIV (Human Immunodeficiency Virus) TG Mouse Model
84	Yaw Owusu-Boaitey	AB	Stapled Antimicrobial Peptides to Combat Multidrug Resistance
85	Ivan Jubilee, II	AB	Effects of the Estrous Cycle on the Orexin System in Freely Cycling Rats During Morphine Reward
86	Andrew Whitaker	AB	Implementation Visual Tool Kit (VTK) for Intraoperative Real-time Registration of Anatomical Structures
87	Ladaisha Thompson	AB	Engineering Tethered Cytokine-Antibody Fusions For Cancer Immunotherapy
88	Cameron Ramnarine	BB	Pathogen Detection in Honey Bees and Mechanisms of Antiviral Defense
89	Mathiu Perez Rodriguez	BB	Unveiling Kinetics of Cysteine Proteases Regulating Nedd8 Cleavage
90	Elizabeth Tisch	BB	Generating Transgenic Tools to Study Habenular Neurons Expressing Opioid-like Polypeptide Hormones
91	Daniel Lugo	BB	New Mutations to Increase Wheat Tillering and Yield
92	Brooklynn Baker	BB	Investigating the Role of Retinaldehyde and Retinoid-Derivatives in Adipose 'Browning'
93	Michael Hall	BB	The Effects of CRISPR on Kv1.1 on Auditory Learning in Zebra Finches
94	Daniel Cordero-Laske	BB	Inferring Regulatory Activity of Ewing Sarcoma Tumors expressing PAX7 by using MIRA to Produce a Summary Methylation Profile for Regions of Interest
95	Merle Phillips	BB	Interactions of the PAF1 Transcription Elongation Complex Subunit Ski8 in S. Cerevisiae
96	Asjah Wallace	BB	A Novel Technique for Identification of Interactors with Ammonia-Assimilating Enzymes
97	Samsara Upadhya	BB	Sex Differences in Corticothalamic Development
98	Ty Running Fisher	BB	Identification and Validation of a Novel EGFR Missense Mutation
99	Lindsay Anderson	BB	Investigating Nonlinear Integration in C. elegans via Optogenetics
100	Don Eaford	BB	Assessing The Role Of Histone Acetylation On Meiotic Recombination

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101	Alyssa Vanerelli	BB	Finding Evidence for Arboreal Adaptation in Rodents Through an Unbiased Computational Analysis of Museum Records
102	Mariela Rosa Casillas	BB	Understanding the Role that Kinetochore Components Play in Synapse Formation During Neurodevelopment in Rat Hippocampal Neurons
103	Claudia Gomez	BB	Biochemically Characterizing the Scaffolding Function of of the Histone Demethylase LSD1
104	Oscar Molina	BB	Alterations in the O-GlcNAc Proteome by the Small Ubiquitin-related Modifier
105	JoAnne Villagrana	BB	Natural variants of multidrug resistance mexXY operon show different induction dynamics upon abrupt exposure to aminoglycosides
106	Joseph Galasso	BB	Investigation of the Role of 5 Novel, Stage-Specific ALG-1 Interactors in the microRNA Pathway in C. elegans
107	Cara Jefferson	BB	Pulmonary Hypertension and NHE1/Actin Filament Co-localization in Pulmonary Arterial Smooth Muscle Cells
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The Leadership Alliance Executive Office Staff



Medeva Ghee, PhD

Executive Director

Assistant Professor of the Practice of Behavioral and Social Sciences, Brown University

Dr. Medeva Ghee is the Executive Director of the Leadership Alliance and a faculty member in the Department of Behavioral and Social Sciences at Brown University. As Director of the Leadership Alliance, she is responsible for leading the 36-member consortium dedicated to increasing the participation of underrepresented students in competitive graduate and doctoral training programs and ultimately developing leaders and role models in academia, the public and private sectors. She is the Director and Principal Investigator on a number of programs to prepare students for Ph.D. training and to consider careers in the professoriate and broader research workforce. Dr. Ghee previously worked with the Clinton HIV I AIDS Initiative as a Laboratory Systems Specialist. In this capacity, she provided technical assistance and strategic advice on the development of laboratory plans and systems to support national HIV I AIDS prevention, care and treatment programs in the Initiative's partner countries in Sub-Saharan Africa. Informed by these experiences, she developed a course on multidisciplinary approaches to support HIV I AIDS care and treatment programs in Sub-Saharan Africa that is offered to Brown undergraduates and Master's degree students. A graduate of North Carolina State University with a bachelor's degree in zoology, she earned her M.S. and Ph.D. in microbiology from New York University School of Medicine. Her postdoctoral research was conducted with a team of CNRS researchers in Paris, France, where she employed biochemical and gene therapy technologies to investigate the impact of protein aggregation in Parkinson's disease. At Brown, Dr. Ghee is actively engaged in mentoring and has served as a faculty advisor for Brown undergraduate independent thesis projects and mentor for graduate students. She was honored by the Samuel M. Nabrit Black Graduate Student Association with the Ruth J. Simmons Award for Leadership.



Chloe Poston, PhD

Associate Director

Dr. Chloe N. Poston is a proud graduate of Clark Atlanta University, where she earned a B.S. in Chemistry. Dr. Poston earned both her Masters and Doctoral degrees in Chemistry from Brown University. Her thesis research was focused on mass spectrometry-based proteomic analysis of the mitochondrial-associated endoplasmic reticulum (MAM). Her work highlighted the connections between the role of calcium trafficking from the ER to the mitochondria and neurodegenerative disease. During her studies at Brown, Chloe served as the President of the Nabrit Black Graduate Student Association, the Chair of the Graduate Students of Color Conference, and a member of the University Diversity Advisory Board.

During her Post-Doc at Eli Lilly and Company in the biological mass spectrometry group, Dr. Poston explored her interests in science policy, diversity, and education through her blog, The Poston Collective. Dr. Poston continued to pursue this interest as an AAAS Science and Technology Policy Fellow at the National Science Foundation where she focused on projects related to scientific communication and broadening participation in science, serving as the executive secretary for the Federal Coordination in STEM Education Broadening Participation Subcommittee. In this role, Dr. Poston worked with 13 government agencies to identify opportunities to encourage individuals from underrepresented groups to pursue and remain in STEM careers. Dr. Poston leveraged the government knowledge she gained in her fellowship as a science policy consultant where she focused on issues related to diversity in the biomedical research workforce.



William Wittels, PhD

Manager of Undergraduate & Graduate Programs

Dr. William Wittels is the Manager of Undergraduate and Graduate Programs for the Leadership Alliance. In that capacity, he helps to manage the Leadership Alliance's Summer Research Early Identification Program, and Leadership Alliance Mellon Initiative. He also assists in program evaluation and strategic planning across the organization. Prior to joining The Leadership Alliance, he was a member of the Tobin Project, where he fostered multi-year research initiatives on the role of the media in preventing (or abetting) special interest influence in democracies and on the practice and theory of strategic threat assessment. He also managed their Graduate Student Fellowship and created their Prospectus Development Workshop. He has held teaching fellowships at Duke University as well as Humboldt University in Berlin. He received his Ph.D. and Certification for Teaching Politics from the Department of Political Science at Duke. While there, he was also affiliated with the Kenan Institute of Ethics.



Maria DoVale

Conference & Events Specialist

Maria DoVale is the Conference & Events Specialist for the Leadership Alliance. It is Ms. DoVale's primary responsibility to plan, organize, coordinate and develop sessions that promote networking, mentoring and professional development for undergraduate students, graduate students and our doctoral scholars. As the Ex-Officio of the Leadership Alliance Symposium Planning Committee, she works alongside colleagues from various member institutions who provide suggestions on different aspects of program planning for the Symposium. Ms. DoVale comes to us with a wealth of experience in administration, event planning and management augmented with exemplary technical, organizational and customer service skills. Prior to her appointment with the Leadership Alliance, Ms. DoVale worked for 5½ years at the Providence Warwick Convention & Visitors Bureau helping to promote the state of Rhode Island as well as the city of Providence as a convention destination. Prior to this appointment, she worked for American Express corporate travel for eight years. Ms. DoVale holds a B.A. in Travel & Tourism Management from Johnson & Wales University.



Barbara Kahn

Coordinator of Undergraduate Programs

Barbara Kahn is the Coordinator for Undergraduate Programs for the Leadership Alliance. In this capacity, she coordinates the combined application process for the 21 undergraduate summer research sites and supervises the Alliance summer research program at Brown University. Prior to her appointment with the Leadership Alliance, Ms. Kahn was part of the professional development team at Brown University's Annenberg Institute for School Reform, a center promoting quality education in urban communities. She came to Brown University from Chaffee & Partners, a public relations and advertising firm in Providence, R.I. Ms. Kahn holds a B.S. in Education from Boston University.



Ashleigh LoVette

Project Assistant

In addition to being Project Assistant for The Leadership Alliance, Ashleigh LoVette is a doctoral candidate in Behavioral and Social Sciences within the School of Public Health at Brown University. With an interest in global health, she has spent time completing research and working in Ghana and South Africa. Her research aims to promote mental health and well-being among young people, with special attention to strength-based approaches and cultural humility. Ashleigh's current research interests include understanding how we conceptualize and measure resilience, particularly in the context of HIV and AIDS.



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Application deadline: February 15, 2020

Up to \$6,000 awards to undergraduate, community college, and post-baccalaureate students to perform 10-12 weeks of summer research
asm.org/urf

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asm.org/rcf

Courses

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Best Practices in Curriculum Design & Assessment Online Course

January - April 2019

Built upon the elements of ASM's Science Teaching Fellows Program, participants in this course develop the skills needed to succeed in positions that have a significant teaching component.

Scientific Writing and Publishing Online Course

January - April 2019

Participants develop scientific writing skills needed to prepare a manuscript for publication.

The Microbe Academy for Professional Development (MAPD)

June 17 - 18, 2020, Chicago, IL

Held prior to ASM Microbe, this one and a half day professional development workshop provides

students skillset training in presentation techniques, networking and gives one on one mentoring.

ASM Grant Writing Online Course

September - December 2019

Overview for finding opportunities and writing grant applications. Speakers come from varied backgrounds and will lend unique perspectives.

Improving Undergraduate Biology Education Based on Research in Science Learning

September - December 2019

Building on the most notable elements from the ASM-NSF Biology Scholars Program, participants will dissect discipline-based education research (DBER) literature.

Conferences

ASM Conference for Undergraduate Educators

August 1 - 4, 2019 | Tysons, VA

Teaching, learning, and assessment conference with workshops, education sessions, posters, and exhibitors for microbiology and biology educators.
www.asmcue.org

Annual Biomedical Research Conference for Minority Students

November 13 - 17, 2019 | Anaheim, CA

Undergraduate student conference with poster presentations and networking, scientific and professional development, and recruiters for summer programs and graduate training.
www.abrcms.org