



Scholars United Dismantling Injustice



Welcome to the 2021 Virtual Leadership Alliance National Symposium!



On behalf of The Leadership Alliance, I am honored with the privilege of welcoming you to the 2021 Virtual Leadership Alliance National Symposium (VLANS)! This is a bittersweet moment, as this symposium rounds out my 15-year tenure working with The Leadership Alliance. This has been an amazing journey and I feel blessed to have been able to travel it with the Executive Office Team, The Leadership Alliance Family of Doctoral Scholars, External Advisory Board, Institutional and Summer Program Coordinators; the Brown University Community, as well as the numerous federal, foundation, professional society, and industry partners who have supported the Alliance throughout the years. A special acknowledgement to all of the undergraduates and graduate students who participate in our programming is also in order. We do this work

for you and could not do it without you. To all of you, I offer a resounding and heartfelt Thank You!

The theme of this symposium, *Scholars United, Dismantling Injustice*, is indicative of the collective contributions of this phenomenal community. For nearly three decades, The Leadership Alliance has, with an unwavering resolve, committed to developing and uniting diverse scholars who have been and continue to dismantle injustices in academia, the public and private sectors. A testament to this is the production of more than 800 PhD or MD-PhD recipients who are serving as leaders and role models in the research workforce. Further demonstration of the impact of The Leadership Alliance is reflected in the nearly 400 students who will be presenting their research at VLANS and to the 500 students who have honed their skills in the Virtual Professional Development program. This community is like none other, and I am humbled to have been a part of it as a PhD candidate, assistant, associate and executive director!

To all of the students who will be participating in VLANS, I thank you for trusting us to help shape your academic and professional career paths and I invite your active engagement in all of the scholarly presentations and personal journeys that will be shared over the next three days. Journeys are never traveled alone, and I extend my sincere gratitude to the family and friends for your support in this process. It is so important and greatly appreciated. I implore each of you to stay connected and get involved so we can continue to produce, promote and support Scholars United, Dismantling Injustices!

Best wishes for a memorable and rewarding VLANS experience!

A handwritten signature in black ink that reads "Medeva Ghee". The signature is fluid and cursive.

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

A Word From Our Committee Chair



I would like to like to personally welcome each of you to the 2021 Virtual Leadership Alliance National Symposium (LANS). This is the second time we have hosted our symposium virtually, and we are excited to have you join us. As the chair of the LANS Planning Committee, I thank each member of the committee for the many hours of work that have been invested in ensuring that this symposium is, once again, the highlight of our summer.

This year's theme, *Scholars United, Dismantling Injustice*, expresses the objective that our undergraduate, graduate, and doctoral scholars have and will continue to pursue in creating changes needed to move our communities, our country, and the world forward. Despite myriad challenges we face on every front, the Alliance and our members remain unconditionally dedicated to our mission of establishing and maintaining a diverse, inclusive society where knowledge and justice are present and valued.

Our undergraduate scholars have worked diligently this summer to enhance their critical thinking, analytical reasoning, and research skills. Their presentations are the culmination of this work, and this is their symposium. We recognize and acknowledge that none of their success would have been possible without the participation of faculty mentors, graduate students, research scientists, Alliance coordinators, family and friends who supported these young scholars through their endeavors this summer. We sincerely thank everyone who played a role in the academic, personal, and professional development of the young scholars.

Please plan to attend many research presentations and other sessions in the conference. From Thursday's keynote speaker, Dr. Ashish Jha, to Friday's Storytelling by the Alliance Doctoral Scholars to Saturday's keynote address by Dr. Camille Burge, we are certain that our presenters will leave you with feelings of joy, inspiration, and fulfillment.

Again, we thank you for joining us as we celebrate another successful summer of successful research for our students.

Warm regards,

A handwritten signature in blue ink that reads "Don C. Brunson".

Don C. Brunson, PhD, Chair, Symposium Planning Committee
Assistant Dean, Graduate School and Director, Enhancing Diversity in Graduate Education Program (VU-EDGE), Vanderbilt University

Leadership Alliance National Symposium

Agenda 2021

Thursday, July 29

- **3:00 PM Open Plenary Welcome**
Dr. Medeva Ghee, *Executive Director, The Leadership Alliance, Associate Professor of the Practice of Behavioral and Social Sciences Brown University*
 - Virtual Roll Call
 - Reflections by Executive Director
- **4:00 PM Break**
- **4:30 PM Plenary Keynote**
Dr. Ashish K. Jha, *Dean of the School of Public Health, Professor of Health Services, Policy, and Practice Brown University School of Public Health*

Friday, July 30

- **3:00 PM Plenary Welcome & Storytelling by Doctoral Scholars**
Dr. Taiese Bingham-Hickman, *Associate Director, The Leadership Alliance*
Dr. Nicholas Everage • Dr. Marisa Galvez • Dr. Noelle Hutchins
- **4:00 PM Break**
- **4:30 PM – 7:30 PM POSTER Presentations**
- **4:30 PM – 7:30 PM ORAL Presentations**

Saturday, July 31

- **3:00 PM Welcome & Keynote**
Dr. Don Brunson, *Assistant Dean, Graduate School and Director, Enhancing Diversity in Graduate Education Program (VU-EDGE)*

Plenary Keynote: Dr. Camille Burge, *Associate Professor, Department of Political Science Villanova University College of Liberal Arts and Sciences*
 - **4:30 PM – 7:30 PM ORAL Presentations**
-

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Plenary Keynote



Ashish K. Jha, MD, MPH

Dean of the School of Public Health

Professor of Health Services, Policy, and Practice

Brown University School of Public Health

A practicing physician, Ashish K. Jha, MD, MPH, is recognized globally as an expert on pandemic preparedness and response as well as on health policy research and practice. He has led groundbreaking research around Ebola and is now on the frontlines of the COVID-19 response, leading national and international analysis of key issues and advising state and federal policy makers.

Dr. Jha has published more than two hundred original research publications in prestigious journals such as the *New England Journal of Medicine* and the *BMJ*, and is a frequent contributor to a range of public media. He has extensively researched how to improve the quality and reduce the cost of health care, focusing on the impact of public health policy nationally and around the globe.

On September 1, Dr. Jha started his role as the Dean of the School of Public Health at Brown University. Before that, Dr. Jha was a faculty member at the Harvard T.H. Chan School of Public Health since 2004 and Harvard Medical School since 2005. He was the Faculty Director of the Harvard Global Health Institute from 2014 until September 2020. From 2018 to 2020, he served as the Dean for Global Strategy at the Harvard T.H. Chan School of Public Health. A general internist previously with the West Roxbury VA in Massachusetts, Dr. Jha will continue his practice at the Providence VA Medical Center.

Dr. Jha was born in Pursaulia, Bihar, India in 1970. He moved to Toronto, Canada in 1979 and then to the United States in 1983. In 1992, Dr. Jha graduated Magna Cum Laude from Columbia University with a B.A. in economics. He received his MD from Harvard Medical School in 1997 and then trained as a resident in Internal Medicine at the University of California, San Francisco. He returned to Boston to complete his fellowship in General Medicine from Brigham and Women's Hospital and Harvard Medical School. In 2004, he completed his Master of Public Health degree at the Harvard T.H. Chan School of Public Health. He was elected to the National Academy of Medicine in 2013.

Conversations with Doctoral Scholars



Moderator:

Taiese Bingham-Hickman, MS, MBA, PhD

Associate Director, The Leadership Alliance

After participating in the SR-EIP at Harvard Medical School, she earned both M.S. and PhD degrees from New York University School of Medicine and completed her M.B.A at Northeastern University. Dr. Bingham is a member of the American Society of Pharmacology and Experimental Therapeutics and a published author in her field.

Informed by an impressive multi-sectoral professional trajectory, Dr. Bingham-Hickman brings a wealth of experience to this position. In the past three years, she served as the Assistant Director of Biomedical Informatics Research and Operations at Brown

University, where she supported the operational functions of the Brown Center for Biomedical Informatics (BCBI) with major statewide initiatives. In this capacity, she also served as the technical liaison for assigned projects with BCBI collaborators across Brown and its affiliated hospitals, as well as regional/national/international partners. Prior to coming to Brown, Dr. Bingham-Hickman worked in the private industry at Beacon Health Options as the Vice President of Data Analytics where she oversaw Beacon's Analytics Innovation Center that provided thought leadership and analytic capabilities to ensure optimal behavioral health solutions for regional and specialty health plans; employers and labor organizations; and federal, state and local governments. She managed a team that leveraged advanced analytic concepts to drive actionable, insight driven and outcome-oriented decision making to deliver the best in class service for its members, providers and clients. Dr. Bingham-Hickman also worked as the Manager of Analytics for Beacon's Pharmacy Intervention Program and was key in the development of evidence-based algorithms to help identify medication related problems specific to behavioral health conditions.



Noelle Hutchins, PhD

Noelle joined *Omega Funds* in 2020. She focuses on private company investments, primarily in the fields of oncology and inflammatory disorders.

Prior to joining Omega, she led scientific strategies and vetted healthcare solutions of an emerging venture of the American Heart Association. She also worked as a consultant for TreMonti Consulting, where she conducted due diligence and market analyses, assessed early-stage inventions, and advised clients on partnering for commercialization and in-licensing opportunities. In addition, she previously mentored entrepreneurs and startups in Science and Technology as an angel investor with Pipeline Angels.

Noelle earned her PhD in Immunology from Brown University, studying the pathobiology of acute liver injury in sepsis animal models. She then completed a postdoctoral fellowship in the Center for Genetics and Host Defense with a Nobel Laureate at UT Southwestern Medical Center to identify novel genes involved with mucosal immunity. She also holds a BS in Biology from UNC-Chapel Hill and was a Leadership Alliance summer fellow in 2002.

Conversations with Doctoral Scholars



Marisa Galvez, PhD

Marisa Galvez is Professor of French and Italian, and by Courtesy, of German Studies and Comparative Literature at Stanford University. She specializes in the literature of the Middle Ages in France and Western Europe, especially the poetry and narrative literature written in Occitan and Old French. She is the author of two books, both published by University of Chicago Press: [Songbook: How Lyrics Became Poetry in Medieval Europe](#) (2012) and [The Subject of Crusade: Lyric Romance, and Materials, 1150-1500](#) (2020). She is Faculty Director of The Program in Structured Liberal Education (SLE) at Stanford, a first-year residential program in the humanities classics.



Nicholas J. Everage, PhD, ScM

Nick is Sr. Director and Head of Epidemiology at Biogen, one of the world's first biotechnology companies and a pioneer in neuroscience. In his role, he leads a team of master- and doctoral-level epidemiologists as they characterize risk factors, determinants, and the natural history of diseases at the population level. Embedded within the R&D organization, Biogen's Epidemiology team leverages clinical and big data (e.g., electronic health records, administrative claims data, multi-national disease registries) to uncover real-world disease insight across the drug development journey from early research to beyond to the post-approval setting. Prior to joining Biogen, Nick was an epidemiologist at Optum where he was responsible for the conduct of pharmacoepidemiologic studies using administrative claims data for numerous industry clients. He earned his A.B. in Community Health from Brown University and, after working for 4 years, returned to Brown to obtain his Master of Science and PhD in Epidemiology from the Brown University School of Public Health. Nick was a Leadership Alliance Summer Research-Early Identification Program (SR-EIP) participant in 1999 and served as an Undergraduate Assistant in 2000 and as a Graduate Assistant in 2010.

Link to Bios:

<https://theleadershipalliance.org/leadership-alliance-national-symposium#section-doctoral-scholars>

Welcome & Keynote



Camille D. Burge, PhD

*Associate Professor
Department of Political Science
Villanova University*

Camille D. Burge is an Associate Professor in the Department of Political Science at Villanova University. Camille was born in Oklahoma City, Oklahoma and raised in Alpharetta, Georgia. Prior to joining Villanova in the Fall of 2014, she received her Bachelor of Arts in Political Science from Bethune-Cookman University and a Master's and PhD in Political Science from Vanderbilt University.

Camille is a scholar of American politics with an emphasis on racial and ethnic politics and political psychology. Within these broad categories, her research revolves around three key themes: (1) Black-White relations in American politics; (2) Black affective experiences in politics; and (3) intersectionality, with emphases on race and gender, race and sexuality, and colorism. Camille's research interests have been and continue to be profoundly influenced by

her lived experiences. As a Black woman who grew up in Alpharetta, Georgia in close proximity to an active Ku Klux Klan, she writes to better understand the complexities she observed throughout her childhood and those she sees in everyday race relations. Camille is drawn to research projects that investigate how Black and White people perceive one another, interact with each other, and how these intergroup relations shape the political landscape.

In addition to politics in the Black-White paradigm, she examines the nuances surrounding Black public opinion and political decision-making. Building upon cognitive understandings of racial group consciousness in politics, she studies how collective experiences of emotions shape the policy opinions, group attitudes, and political participation of Black Americans. She also examines how intersectional identities shape how Black political candidates are portrayed in the media as well as the ways in which these overlapping identities shape evaluations of political candidates. Throughout her research, she uses a mixture of qualitative and quantitative methods to provide rich and detailed understandings of political phenomena.

In 2014 she received the Lucius Barker Award for the Best Paper on Race and Politics presented at the 2013 Annual Meeting of the Midwest Political Science Association for her paper titled, "The Meaning and Implications of Racial Resentment Across the Racial Divide," which was co-authored with Cindy Kam. Her research has been published in *The Journal of Politics*, *Research & Politics*, *Political Research Quarterly*, and *Politics, Groups, and Identities*.

In the Spring of 2018, Camille received Villanova's Junior Faculty Award for Excellence in Teaching. In the Spring of 2019 and 2020, she was a finalist for the Christian R. and Mary F. Lindback Award for Outstanding Teaching.

She currently serves as Treasurer for the organized section of Race, Ethnicity, and Politics for the American Political Science Association. In the Fall of 2019, Camille began a three-year appointment as the Assistant Director for the Center for Peace and Justice Education at Villanova University. In January of 2020, she was appointed to the 2020 Pre-Election Task Force for the American Association of Public Opinion Research. In this position, Camille is one of several academics working alongside survey administrators at Gallup, Pew, NBC News, CBS News, ABC News, CNN, Huffington Post, and many other reputable polling organizations, to analyze local, state, and national elections data.

Poster Presentations

Abdurezak, Nia 5:00, Breakout Room 9

Determining the Effects of GSK3A Overexpression and Activation on TAD Boundaries

Research Mentor: Eric Joyce

Research Institution: University of Pennsylvania

Co-Authors: Daniel S. Park, University of Pennsylvania; Eric F. Joyce, University of Pennsylvania;

BB

Adade, Joel 5:40, Breakout Room 3

Antagonizing Pro-Oncogenic DNA Deaminase APOBEC3A Activity Using RNA-based Inhibitors

Research Mentor: Rahul Kohli

Research Institution: University of Pennsylvania

Co-Authors: Rahul Kohli, MD, University of Pennsylvania; Juan Serrano, University of Pennsylvania

BB

Aguiar, Megan 4:30, Breakout Room 8

Finding Important Interactions Between The Immunogenic Region of Neo-2, De Novo Mimic of Cytokine IL-2, and IL-2 Receptor's Gamma and Beta Chains

Research Mentor: Zachary Bernstein

Research Institution: Johns Hopkins University

Co-Authors: Dr. Jamie Spangler, Johns Hopkins University; Zachary Bernstein, Johns Hopkins University

AB

Ahmed, Mohammed 6:00, Breakout Room 6

Cardiac Protective Effects of Leptin

Research Mentor: Melissa Larocca

Research Institution: University of Pennsylvania

Co-Authors: Melissa Larocca, University of Pennsylvania; Joseph Baur, University of Pennsylvania

BB

Akiel, Yohannes 5:00, Breakout Room 5

Early Non-Small Cell Lung Cancer Detection via Exosomal miRNA Biomarkers

Research Mentor: David Issadore

Research Institution: University of Pennsylvania

Co-Authors: Hanfei Shen, University of Pennsylvania; David Issadore, University of Pennsylvania

BB

Alexander, Tyler 6:00, Breakout Room 2

Evaluating the Relationship Between Stigma, Social Support, and Substance use Among Male Sex Workers in Rhode Island

Research Mentor: Katie Biello

Research Institution: Brown University

Co-Authors: Pablo Valente, Brown University; Katie Biello, Brown University

SS

Alexandre, Falande 5:50, Breakout Room 6

*The Behavioral and Biological Impact of Neuroparsin in *Atta cephalotes*.*

Research Mentor: Shelley Berger

Research Institution: University of Pennsylvania

Co-Authors: Balint Kacsóh, University of Pennsylvania; Michael Gilbert, University of Pennsylvania; Shelley L. Berger, University of Pennsylvania;

BB

Alva, Benjamin 4:40, Breakout Room 4

High-Throughput Metabolic Profiling Platform for Single-Cell Functional Phenotyping

Research Mentor: Junhyong Kim

Research Institution: University of Pennsylvania

Co-Authors: Hyejoong Jeong, University of Pennsylvania; Junhyong Kim, University of Pennsylvania; Daeyeon Lee, University of Pennsylvania

AB

Presentation Categories

AB Applied Biosciences
Molecular Processes and Genetics, Biochemistry

BB Basic Biosciences
Human Biology & Disease, Public Health, Biomedical Engineering

EN Engineering
Mechanical, Electrical & Materials Engineering

ES Earth Science
Environment Sciences, Geosciences, Marine Sciences

HU Humanities
Literature, Language Arts, History, Media

PE Policy & Ethics
Politics, Policy & Legislation, Ethics, Philosophy & Reasoning

PS Physical Science
Chemistry, Math, Physics, Computer Sciences, Computer Engineering

SS Social Science
Sociology, Economics, Psychology, and Behavior Sciences



Amankwaah, Michael 5:40, Breakout Room 5

Characterization of the Potency and toxicity of a Silver doped titanium oxide-PDMS hybrid coating against bacterial persister cells and primary cell lines respectively.

Research Mentor: Dioscaris Garcia

Research Institution: Brown University

Co-Authors: Dioscaris Garcia, Brown University; Christopher Born, Brown University; Neel Vishwanath, Brown University; Sai Allu, Brown University

AB

Asfari, Heba 5:10, Breakout Room 10

In Vitro Assays For Understanding RNA Clustering

Research Mentor: Tatjana Trcek

Research Institution: Johns Hopkins University

Co-Authors: Tatjana Trcek, Johns Hopkins University; Siran Tian, Johns Hopkins University; Alice Turnham, Johns Hopkins University

BB

Ayala, Jesus 5:20, Breakout Room 3

dsRNA-Induced Innate Immune Responses During Common Cold HCoV OC43 and 229E Infection

Research Mentor: Susan Weiss

Research Institution: University of Pennsylvania

Co-Authors: Alejandra Fausto, University of Pennsylvania; Susan Weiss, University of Pennsylvania

BB

Battersby, Cameron 4:30, Breakout Room 11

Understanding The Molecular Composition of Corticothalamic Neurons in Motor Cortex

Research Mentor: Solange Brown

Research Institution: Johns Hopkins University

Co-Authors: Solange Brown, Johns Hopkins University; Su-Jeong Kim, Johns Hopkins University

BB

Baumgartner, Elsa 4:50, Breakout Room 10

Philly Vax Sweepstakes: Lottery-Based Incentives and Philadelphia COVID-19 Vaccination Rates

Research Mentor: Katherine Milkman

Research Institution: University of Pennsylvania

Co-Authors: Katherine Milkman, University of Pennsylvania; Sean Ellis, University of Pennsylvania; Joseph Simon Kay, University of Pennsylvania

SS

Bellot, Jahnayah 5:00, Breakout Room 2

The Effect of Racial Stereotypes on Mental State Perception

Research Mentor: Mark Thornton

Research Institution: Dartmouth College

Co-Authors: Mark Thornton, Dartmouth College; Jahnayah Bellot, Dartmouth College

SS

Bonilla Pérez, Michelle 4:30, Breakout Room 3

Antibiotic Resistance Genes Guidance for Improving Treatment in Patients of COVID-19.

Research Mentor: Sean Monaghan

Research Institution: Brown University

Co-Authors: Dr. Sean Monaghan, Brown University; Winston Jiang, Brown University

BB

Byrd, Christyn 4:50, Breakout Room 8

The Inhibition of Glutamine in the Krebs Cycle on the Migration and Proliferation of Cells with Pulmonary Arterial Hypertension (PAH)

Research Mentor: Karthik Suresh

Research Institution: Johns Hopkins University

Co-Authors: Karthik Suresh, Johns Hopkins University; Larissa Shimoda, Johns Hopkins University

AB

Carroll, Jordan 5:40, Breakout Room 4

Data Visualization Pipeline for Rodent Joystick Behavior in a Dynamic Foraging Task

Research Mentor: Jeremiah Cohen

Research Institution: Johns Hopkins University

Co-Authors: Rebecca Boland, Johns Hopkins University; Jeremiah Cohen, Johns Hopkins University; Linda Amarante, Johns Hopkins University

AB

Chatman, Gabriella 5:00, Breakout Room 8

Characterizing Small Molecule Inhibitors of N-terminal acetyltransferase A

Research Mentor: Sarah Gardner

Research Institution: University of Pennsylvania

Co-Authors: Sarah Gardner, University of Pennsylvania; Ronen Marmorstein, University of Pennsylvania

BB

Cherfils, Saphira 5:20, Breakout Room 10

People Living with HIV Mount Strong T Cell Responses to SARS-CoV-2 mRNA Vaccine

Research Mentor: Joel Blankson

Research Institution: Johns Hopkins University

Co-Authors: Joel N. Blankson, Johns Hopkins University; Bezawit A. Woldemeskel, Johns Hopkins University

BB

Chowdhury, Deepanjali 5:20, Breakout Room 1

CHARLIE: A User-Friendly Health Chatbot that Analyzes Daily Activities to Determine Efficient Diets and Fitness Plans

Research Mentor: Nirmalya Roy

Research Institution: University of Maryland, Baltimore County

Co-Authors: Sreenivasan Ramasamy Ramamurthy, University of Maryland, Baltimore County; Nirmalya Roy, University of Maryland, Baltimore County

PS

Cisneros, Isaiah 5:40, Breakout Room 2

Distance Perception in the Time of Covid-19: A Mouse Tracking Approach

Research Mentor: Mukesh Makwana

Research Institution: Brown University

Co-Authors: Mukesh Makwana, Brown University; Yi-Fei Hu, Brown University; Joo-Hyun Song, Brown University

SS

Cook, Jhah 5:00, Breakout Room 4

Utilizing Electrochemistry to Understand the Effects of COMT Inhibition on Dopamine Kinetics

Research Mentor: Gregory Carr

Research Institution: Johns Hopkins University

Co-Authors: Gregory Carr, Johns Hopkins University; Karen Scida, Johns Hopkins University

AB

Diria, Abdirahman 4:40, Breakout Room 11

The Role of Dopamine in Operant Learning

Research Mentor: John Assad

Research Institution: Harvard University Div. of Medical Sciences

Co-Authors: John Assad, PhD, Harvard University Div. of Medical Sciences

AB

Domecillo, Masy 4:40, Breakout Room 7

Effects of a High-Fat Diet, Ischemia and Microvesicle Therapy on the Methylome of Porcine Cardiomyocytes

Research Mentor: Alexey Fedulov

Research Institution: Brown University

Co-Authors: Alexey Fedulov, Brown University

AB

Edwards-Cintrón, Andrea 5:10, Breakout Room 3

Evaluating the Roles of Autism-associated Genes in Neuronal and Behavioral Plasticity

Research Mentor: Michael Hart

Research Institution: University of Pennsylvania

Co-Authors: Kristi Zoga, University of Pennsylvania; Michael Hart, University of Pennsylvania

BB

Eleazer, Shade 6:00, Breakout Room 9

Astrocytic Metabotropic Glutamate Receptor 3 as a Sex-Dependent Regulator of Memory

Research Mentor: Anna Orr

Research Institution: Weill Cornell Graduate School

Co-Authors: Samantha Meadows, Weill Cornell Graduate School; Constance Zhou, Weill Cornell Graduate School; Avital Murava, Weill Cornell Graduate School; Adam Orr, Weill Cornell Graduate School; Anna Orr, Weill Cornell Graduate School

BB

Escoto-Diaz, Carlos 5:50, Breakout Room 5

Using scRNA-seq to Map Lower Respiratory Viral Infections

Research Mentor: Jose Ordovas-Montanes

Research Institution: Harvard University Div. of Medical Sciences

Co-Authors: Jose Ordovas-Montanes, PhD, Harvard University Div. of Medical Sciences; ,

AB

Espejo, Maria 4:40, Breakout Room 10

Behavioral Evidence for a Neurological Signature of Self-Referential Processing

Research Mentor: Luke Slipski

Research Institution: Dartmouth College

Co-Author: Luke Slipski, Dartmouth College; ,

SS

Fan, Darrell 5:00, Breakout Room 3

Effects of Cytokine Interleukin-1 Beta on VEGF-A Expression in Promoting Angiogenesis Using Murine Ischemic Models

Research Mentor: Alan Morrison

Research Institution: Brown University

Co-Authors: Alan Morrison, Brown University; Sheila Sharma, Brown University; Chris Mantsounga, Brown University

AB

Felder, Adrianna 4:40, Breakout Room 9

Assessment of Cortical and Subcortical Changes in Visual Cortex After Ultrasound Stimulation

Research Mentor: Samuel Parkins

Research Institution: Johns Hopkins University

Co-Authors: Hey-Kyoung Lee, PhD, Johns Hopkins University; Samuel Parkins, B.S., Johns Hopkins University

BB

Francis, Julian 4:50, Breakout Room 3

Analyzing The Effect Of Prolonged Critical Illness In Circadian Clock Gene Expression And Co-Expression In Human Tissue

Research Mentor: Ron Anafi

Research Institution: University of Pennsylvania

Co-Author: Dr. Ron Anafi, University of Pennsylvania; ,

AB

Gaither, Jonathan 4:50, Breakout Room 11

Comparisons of differing secreted soluble factors with implementations for generating a permissive tumor microenvironment

Research Mentor: Jonathan Gaither

Research Institution: University of Pennsylvania

Co-Authors: Dr. Sandra Ryeom, University of Pennsylvania; Dr. Bang-Jin Kim, University of Pennsylvania

BB

Garcia, Andres 4:30, Breakout Room 7

Personal and Professional Development with the Diversity Summer Engagement Program

Research Mentor: Mahnoor Ahmed

Research Institution: Johns Hopkins University

Co-Author: Mahnoor Ahmed, Johns Hopkins University; ,

AB

Glaude, Analexis 5:30, Breakout Room 2

The Philly Vax Sweepstakes- A Regret Lottery

Research Mentor: Katherine Milkman

Research Institution: University of Pennsylvania

Co-Authors: Katherine Milkman, University of Pennsylvania; Sean Ellis, University of Pennsylvania; Joseph Kay, University of Pennsylvania

SS

Gohar, Taqdees 6:00, Breakout Room 3

Regulation of Immediate Early Gene NPTX2 Trafficking by PV Circuit and Cholinergic Modulation in vivo

Research Mentor: Paul Worley

Research Institution: Johns Hopkins University

Co-Authors: Paul Worley, Johns Hopkins University; Seung-Eon Roh, Johns Hopkins University

AB

Graham, Jessica 4:50, Breakout Room 5

Evaluating the Effectiveness of Dexrazoxane for Cardioprotection during Treatment for Acute Myeloid Leukemia

Research Mentor: Kelly Getz

Research Institution: University of Pennsylvania

Co-Authors: Carly McCoubrey, University of Pennsylvania; Richard Aplenc, University of Pennsylvania; Kelly Getz, University of Pennsylvania

AB

Grobler, Maryke 5:00, Breakout Room 11

Identifying Putative Phosphorylation Sites within the Synaptonemal Complex in C. Elegans

Research Mentor: Yumi Kim

Research Institution: Johns Hopkins University

Co-Authors: Yumi Kim, Johns Hopkins University; Matt Hurlock, Johns Hopkins University

BB

Guanuna, Ernesto 5:30, Breakout Room 4

Why Worry? Rumination Impairs Learning.

Research Mentor: Michael Frank

Research Institution: Brown University

Co-Authors: Michael Frank, Brown University; Peter Hitchcock, Brown University

BB

Gupta, Vanshika 4:50, Breakout Room 4

Towards Continuous Real-Time Detection of Small Molecules in vivo Using Electrochemical Aptamer-Based Sensors.

Research Mentor: Netzahualcáyotl Arroyo-Currá

Research Institution: Johns Hopkins University

Co-Authors: Dr. Netzahualcáyotl Arroyo Currás, Johns Hopkins University; Dr. Miguel A. Pellitero, Johns Hopkins University

AB

Gutierrez, Lizeth 5:30, Breakout Room 10

Hippocampal CA3 Temporal Activity

Research Mentor: Heekyung Lee

Research Institution: Johns Hopkins University

Co-Authors: Heekyung Lee, Johns Hopkins University; Jim Knierim, Johns Hopkins University

BB

Guzman, Frederick 6:00, Breakout Room 5

Clinical Validation of Electrochemical Aptamer-based Sensors for Therapeutic Drug Monitoring

Research Mentor: Netz Arroyo

Research Institution: Johns Hopkins University

Co-Authors: Netzahualcáyotl Arroyo, Johns Hopkins University; Alexander Shaver, Johns Hopkins University

AB

Hairston, Courtney 4:40, Breakout Room 2

The Meanings Made Through Black Artistry

Research Mentor: Jennifer Betts

Research Institution: Brown University

Co-Author: Jennifer Betts, Brown University; ,

HU

Harley, Clarence 5:10, Breakout Room 2

Teachers, Education, And Segregation: The Long-Term Growth Of Private Education In India

Research Mentor: Emmerich Davies

Research Institution: Harvard University

Co-Authors: Emmerich Davies, PhD, Harvard University; Sabela Ralston, Harvard University

SS

Harpe, Jonathan 5:10, Breakout Room 11

Characterizing Choroid Plexus Secretion Across Development

Research Mentor: Maria Lehtinen

Research Institution: Harvard University Div. of Medical Sciences

Co-Authors: Maria Lehtinen, PhD, Harvard University Div. of Medical Sciences; Yaël Courtney, Harvard University Div. of Medical Sciences; Neil Dani, PhD, Harvard University Div. of Medical Sciences

BB

Hernández Rivera, Israel 5:30, Breakout Room 7

An In-Vivo Model for Studying the Toxicity of Individual Dipeptide Repeat Proteins via Selective Degradation and Stabilization

Research Mentor: Thomas Lloyd II

Research Institution: Johns Hopkins University

Co-Authors: Thomas Lloyd, Johns Hopkins University; Kirstin Maulding, Johns Hopkins University

BB

Hoegnifioh, Charnice 4:30, Breakout Room 2

The Price of Beauty is Pain: Makeup and Women's Health in the Roman Empire

Research Mentor: Irene Peirano Garrison

Research Institution: Harvard University

Co-Author: Irene Peirano Garrison, PhD, Harvard University

HU

Iyer, Shraddha 4:40, Breakout Room 5

Characterizing the Effect of Alternative Splicing on Transcription Factors Expressed in Breast Cancer Using Long-Read RNA Sequencing

Research Mentor: Martha Bulyk

Research Institution: Harvard University Div. of Medical Sciences

Co-Authors: Martha Bulyk, PhD, Harvard University Div. of Medical Sciences; Kaia Mattioli, PhD, Harvard University Div. of Medical Sciences

AB

Jackson, Ameenah 5:20, Breakout Room 11

Enhancing TILs To Combat Ovarian Tumors

Research Mentor: Veethika Pandey

Research Institution: University of Pennsylvania

Co-Authors: Daniel Powell, University of Pennsylvania; Veethika Pandey, University of Pennsylvania

AB

Jenkins, Quentin 5:50, Breakout Room 2*(UN)Leveling the playing field: COVID-19 and the exacerbation of inequities in higher education***Research Mentor:** Anthony Jack**Research Institution:** Harvard University**Co-Author:** Anthony Abraham Jack, PhD, Harvard University

SS

Johnson, Maja 5:20, Breakout Room 6*Identifying Fucosidases in the Vaginal Microbiome***Research Mentor:** Emily Balskus**Research Institution:** Harvard University**Co-Authors:** Emily Balskus, PhD, Harvard University; Paula Pelayo, Harvard University

BB

Kamath, Abhishek 5:50, Breakout Room 8*VAMP8 Recruitment to Lysosomes by TMEM106B***Research Mentor:** Alice Chen-Plotkin**Research Institution:** University of Pennsylvania**Co-Authors:** Alice Chen-Plotkin, University of Pennsylvania; Elisia Clark, University of Pennsylvania

BB

Kemp, Jade 5:00, Breakout Room 1*Using DFT for Modeling Titanium Dioxide and Copper Alloy Catalysts in Polymer Upcycling***Research Mentor:** Brenda Rubenstein**Research Institution:** Brown University**Co-Authors:** Brenda Rubenstein, Brown University

PS

Khoury, Yara 5:10, Breakout Room 9*Understanding the Function of an RNA Chaperone's Disordered CTD Through Molecular Dynamics Simulations***Research Mentor:** Sarah Woodson**Research Institution:** Johns Hopkins University**Co-Authors:** Ana Damjanovic, Johns Hopkins University; Sarah Woodson, Johns Hopkins University

BB

Kleb, Sarah 5:30, Breakout Room 6*Using Non-Drug Eluting Nitinol Stents to Visualize Metal Ion Release and Immune Response***Research Mentor:** Joshua Doloff**Research Institution:** Johns Hopkins University**Co-Authors:** Dr. Joshua Doloff, Johns Hopkins University; Sanjana Eranki, Johns Hopkins University; Stuart Bauer, Johns Hopkins University; Jessica Stelzel, Johns Hopkins University

AB

Knight, Corynn 5:10, Breakout Room 4*Reduced "Mini" Frequency as an Indicator of Loss of Excitatory Synapses of Parvalbumin Interneurons***Research Mentor:** Daniel Severin**Research Institution:** Johns Hopkins University**Co-Authors:** Dr. Alfredo Kirkwood, Johns Hopkins University; Daniel Severin Lea-Plaza, Johns Hopkins University

BB

Kramer, Lydia 5:40, Breakout Room 10*Assessing the interdependence of Escherichia coli 1-Deoxy-D-xylulose 5 phosphate synthase active sites through limited proteolysis***Research Mentor:** Caren Freel Meyers**Research Institution:** Johns Hopkins University**Co-Authors:** Caren Freel Meyers, Johns Hopkins University; Melanie Johnston, Johns Hopkins University

BB

Lewis, Millie 5:30, Breakout Room 11*Enzymatic Control of Clathrin Coat Assembly***Research Mentor:** Margaret Johnson**Research Institution:** Johns Hopkins University**Co-Authors:** Margaret Johnson, Johns Hopkins University; Adip Jhaveri, Johns Hopkins University

BB

Loi, Kenneth 5:00, Breakout Room 6*Biophysical modeling of Alzheimer's disease mediated changes in magnetoencephalography (MEG) alpha oscillations***Research Mentor:** Stephanie Jones**Research Institution:** Brown University**Co-Authors:** Stephanie Jones, Brown University; Nicholas Tolley, Brown University

PS

Lopez Maldonado, Carlos ... 5:50, Breakout Room 10*Acid and Basic Residues at the Same Position in a Protein Have Different Effects on Thermal and Thermodynamic Stability***Research Mentor:** Bertrand Garcia-Moreno**Research Institution:** Johns Hopkins University**Co-Authors:** Bertrand Garcia-Moreno, Johns Hopkins University; Miranda Hurst, Johns Hopkins University; Tom Zhang, Johns Hopkins University

BB



Lopez, Isaiah 5:10, Breakout Room 8
Screening Proteolysis-targeting Chimaeras (PROTACs) to Target Aldo-keto Reductase Family 1 Member C3 (AKR1C3) Degradation

Research Mentor: Trevor Penning
Research Institution: University of Pennsylvania
Co-Authors: Trevor Penning, University of Pennsylvania; Andrea Detlefsen, University of Pennsylvania; Lawrence Marnett, Vanderbilt University; Md. Jashim Uddin, Vanderbilt University

BB

Malcolm, Kai 5:20, Breakout Room 4
Dynamical Patterns of Neural Models in Hodgkin-Huxley Form

Research Mentor: Jason Ritt
Research Institution: Brown University
Co-Authors: Jason T. Ritt, Brown University

BB

Marker, Rebecca 5:40, Breakout Room 11
Characterization of the amyloid- β deposition along the olfactory pathway in Alzheimer's Disease mouse models

Research Mentor: Lorenzo Brozzetti
Research Institution: Johns Hopkins University
Co-Authors: Haiqing Zhao, Johns Hopkins University; Lorenzo Brozzetti, Johns Hopkins University

AB

Martin, Sidney 4:30, Breakout Room 5
Metabolic Alterations in Pancreatic Cancer Cachexia

Research Mentor: Blanca Majem
Research Institution: Harvard University Div. of Medical Sciences
Co-Authors: Nada Kalaany, PhD, Harvard University Div. of Medical Sciences; Blanca Majem, PhD, Harvard University Div. of Medical Sciences; Insia Naqvi, Harvard University Div. of Medical Sciences

AB

Martinez-Ruiz, Alfredo 5:30, Breakout Room 8
Role of AQP1 in Pulmonary Microvascular Endothelial Cell Migration and Proliferation in Pulmonary Arterial Hypertensive Rats

Research Mentor: Larissa Shimoda
Research Institution: Johns Hopkins University
Co-Authors: Larissa Shimoda, Johns Hopkins University

BB

Martinez, Elena 5:40, Breakout Room 1
Radar Applications of Limited Data Tomography

Research Mentor: Todd Quinto
Research Institution: Tufts University
Co-Authors: Dr. Todd Quinto, Tufts University

PS

Mathieu, David 5:10, Breakout Room 7
A Comparison of Image Analysis Programs for Analyzing Differences in Microbiome-related Serotonin Expression in the Gut

Research Mentor: Katherine Wilson
Research Institution: Johns Hopkins University
Co-Authors: Karen Sfanos, Johns Hopkins University; Carli Jones, Johns Hopkins University

AB

Mayo, Kyla 5:20, Breakout Room 2
Working Memory: Identifying the benefits of "Chunking" in a Color Reproduction Task Using Younger and Older Adults.

Research Mentor: Matt Nassar
Research Institution: Brown University
Co-Authors: Matthew Nassar, Brown University

SS

Melero, Alondra 4:40, Breakout Room 8
The IL27 cytokine signaling pathway: Does it have a protective role in the placenta?

Research Mentor: Kellie Jurado
Research Institution: University of Pennsylvania
Co-Authors: Kellie Jurado, University of Pennsylvania; Rebecca Clements, University of Pennsylvania; Madeline Merlino, University of Pennsylvania

AB

Meremikwu, Ijeoma 4:50, Breakout Room 9
Exploring the Role of Retrotransposon Elements in Differentiation and Genome Organization of T-helper Cells

Research Mentor: Golnaz Vahedi
Research Institution: University of Pennsylvania
Co-Authors: Golnaz Vahedi, University of Pennsylvania; Abhijeet R. Patil, University of Pennsylvania; Aditi Chandra, University of Pennsylvania

BB

Mirza, Muhammed 5:30, Breakout Room 3

Investigating the Effects of Periconceptional Di(2-Ethylhexyl) Phthalate Exposure on Placental Function and Epigenetics

Research Mentor: Marisa Bartolomei

Research Institution: University of Pennsylvania

Co-Authors: Marisa Bartolomei, University of Pennsylvania; Nicole Robles-Matos, University of Pennsylvania

BB

Moretto Regout, Catherine 5:40, Breakout Room 6

The Mechanisms by Which Tryptophan Affects Host Physiology in Humans, Mice, and Flies

Research Mentor: Nichole Broderick

Research Institution: Johns Hopkins University

Co-Authors: Benjamin Soto, Johns Hopkins University; Nichole Broderick, Johns Hopkins University

BB

Nelson, Alex 4:40, Breakout Room 6

Nitroreductase Catalyzed Activation of Nitroaromatic Prodrugs for Cancer Therapeutics

Research Mentor: Steven Rokita

Research Institution: Johns Hopkins University

Co-Authors: Dr. Steven Rokita, Johns Hopkins University; Danielle Bautista, Johns Hopkins University

PS

Okorie, Juliet 6:00, Breakout Room 10

Investigation of the Underlying Mechanisms Involved in the Post-translational Modification of the Epidermal Growth Factor Receptor

Research Mentor: Eric Witze

Research Institution: University of Pennsylvania

Co-Authors: Dr. Eric Witze, University of Pennsylvania; Dr. Yasmin Kadry, University of Pennsylvania; Dr. Lloyd Lee, University of Pennsylvania

AB

Okoro, Chelsea 4:30, Breakout Room 9

Quantitative Cellular Analysis of Aging Motor Neurons using PACT-CLARITY Tissue Clearing

Research Mentor: Gregorio Valdez

Research Institution: Brown University

Co-Authors: Gregorio Valdez, Brown University; Ryan Castro, Brown University

BB

Owah, Justice 4:30, Breakout Room 4

Speed Racers: Estimating Spinal Neuron Population Characteristics Through Rostrocaudal and Mediolateral Analysis of ECAP Conduction Velocity

Research Mentor: David Borton

Research Institution: Brown University

Co-Authors: David Borton, Brown University; Samuel Parker, Brown University

AB

Papavassiliou, Marilena 5:20, Breakout Room 7

Using Bioinformatics Analyses To Reveal Association Between piRNAs And Long-Term Memory In Adult Crickets

Research Mentor: Cassandra Extavour

Research Institution: Harvard University

Co-Authors: Cassandra Extavour, PhD, Harvard University; Guillem Ylla, PhD, Harvard University

BB

Pariona, Susana 5:10, Breakout Room 5

Adaptation to Cellular Stress for Aggressive Prostrate Cancer

Research Mentor: Crystal Conn

Research Institution: University of Pennsylvania

Co-Authors: Crystal S Conn, University of Pennsylvania; Caleb L Lines, University of Pennsylvania

BB

Pepper, Tristan 5:30, Breakout Room 9

GNAS Mutation Pathway Analysis To Study GNAS-Mediated IPMN Initiation And Progression To PDAC

Research Mentor: Senthil Muthuswamy

Research Institution: Harvard University Div. of Medical Sciences

Co-Authors: Tristan Pepper, Harvard University Div. of Medical Sciences; Patrick Emedom-Nnamdi, Harvard University Div. of Medical Sciences; Ridhdhi Desai, PhD, Harvard University Div. of Medical Sciences; Senthil K Muthuswamy, PhD, Harvard University Div. of Medical Sciences

BB

Perez, Jackelyn 5:30, Breakout Room 5

Malaria Vaccine Development

Research Mentor: Jonathan Kurtis

Research Institution: Brown University

Co-Authors: Jonathan Kurtis, Brown University

AB

Phaneuf, Anyssa 5:50, Breakout Room 11*Investigating the Role of Oct4 in X Chromosome Inactivation***Research Mentor:** Karen Adelman**Research Institution:** Harvard University**Co-Authors:** Karen Adelman, PhD, Harvard University

BB

Pollard, Shaun 4:40, Breakout Room 3*Assessing Neuroinflammation in Mouse Models of Neurodegeneration using Single-cell RNA Sequencing***Research Mentor:** Li Gan**Research Institution:** Weill Cornell Graduate School**Co-Authors:** Li Gan, Weill Cornell Medical College; Eileen Torres, Weill Cornell Medical College; Bangyan Liu, Weill Cornell Medical College; Li Fan, Weill Cornell Medical College

BB

Quiñones-Barreto, Miliarys . 5:50, Breakout Room 3*Analysis and Classification of Gene Promoters Genome-Wide Using Chromatin State Profiling in a Multipotent Hematopoietic Progenitor***Research Mentor:** Andrew Earl**Research Institution:** Harvard University**Co-Authors:** Andrew Earl, Harvard University; Jason Buenrostro, PhD, Harvard University

BB

Ramos, Drew 6:00, Breakout Room 11*Evaluating DDAO-Arachidonate Activation in Canine and Human Lung Tumors***Research Mentor:** Edward Delikatny**Research Institution:** University of Pennsylvania**Co-Authors:** Michael Hart, University of Pennsylvania

AB

Reed, Sebastian 5:10, Breakout Room 1*Magnetic Field Distributions Inside Magnetic Tunneling Junctions***Research Mentor:** Kemp Plumb**Research Institution:** Brown University**Co-Authors:** Kemp Plumb, Brown University

PS

Rodriguez Steube, Carolina 6:10, Breakout Room 11*Characterizing the Response of Drosophila Melanogaster Larvae to Chromobacterium Subtsugae Infection***Research Mentor:** Nichole Broderick**Research Institution:** Johns Hopkins University**Co-Authors:** Nichole Broderick, Johns Hopkins University; Madison Condon, Johns Hopkins University

BB

Rodríguez, Jaelinet 5:00, Breakout Room 10*Explaining geographic variation in Covid-19 mortality rates in Puerto Rico***Research Mentor:** Elizabeth Fussell**Research Institution:** Brown University**Co-Authors:** Elizabeth Fussell, Brown University; Jonathon Acosta, Brown University

SS

Romero Ramos, Yaideliz 4:50, Breakout Room 7*What Tools are Needed by Consumers When Selecting a Medicare Advantage Plan? A Qualitative Analysis with Community and Private Organizations***Research Mentor:** Maricruz Rivera-Hernandez**Research Institution:** Brown University**Co-Authors:** Dr. Maricruz Rivera-Hernandez, Brown University; Aaron Castillo, Brown University

AB

Rosas, Alondra 4:50, Breakout Room 6*Single Molecule Studies of Nucleic Acid Protein Interaction using Pubmed Database as a Pattern Recognition Tool.***Research Mentor:** Sua Myong**Research Institution:** Johns Hopkins University**Co-Authors:** Sua Myong, Johns Hopkins University

PS

Ruas, Ana 5:40, Breakout Room 7*Determining the Size of ctDNA in BAL Specimens from NSCLC Patients***Research Mentor:** Erica Carpenter**Research Institution:** University of Pennsylvania**Co-Authors:** Jacob E. Till, University of Pennsylvania; Kate French, University of Pennsylvania; Simran Shamith, University of Pennsylvania; Zhuoyang Wang, University of Pennsylvania; Taylor Black, University of Pennsylvania

BB

Sangare, AbuBakr 5:40, Breakout Room 9*Investigating RNA Dimerization and its Effect on Frameshifting in HIV-1***Research Mentor:** Victoria D'Souza**Research Institution:** Harvard University**Co-Authors:** Victoria D'Souza, PhD, Harvard University; Raphael Haslecker, Harvard University

BB

Semancik, Christopher 5:50, Breakout Room 7*Histone H3 and H3.3 Dynamics in the Germline and Early Embryo of *Caenorhabditis elegans****Research Mentor:** Ryan Gleason**Research Institution:** Johns Hopkins University**Co-Authors:** Xin Chen, Johns Hopkins University; Ryan Gleason, Johns Hopkins University

BB

Soto-Vargas, John 6:00, Breakout Room 8*Regulation of Cortical Neuron Axon Branching: Roles for Wnt Signaling in Cortical Laminar Organization***Research Mentor:** Alex Kolodkin**Research Institution:** Johns Hopkins University**Co-Authors:** Alex Kolodkin, Johns Hopkins University; Sriram Sudarsanam, Johns Hopkins University

BB

Soto, Abraham 5:20, Breakout Room 5*The Value of the Rapid Diagnostic Test for Malaria Epidemiology***Research Mentor:** Clive Shiff**Research Institution:** Johns Hopkins University**Co-Author:** Clive Shiff, Johns Hopkins University

AB

Taylor, Alexis 4:50, Breakout Room 2*Environmental and Neural Correlates of Creativity in Young Children***Research Mentor:** Allyson Mackey**Research Institution:** University of Pennsylvania**Co-Authors:** Allyson Mackey, University of Pennsylvania

SS

Thompson, Kamila 6:00, Breakout Room 1*Development of Biaxial Strain Tool to Characterize Electrical Properties of TMDs for Biomedical Applications***Research Mentor:** Eric Pop**Research Institution:** Stanford University**Co-Authors:** Jerry Yang, Stanford University; Eric Pop, Stanford University

EN

Tiburcio, Diana 4:30, Breakout Room 10*(UN)Leveling the playing field: COVID-19 and The Exacerbation of Inequities in Higher Education Institutions***Research Mentor:** Anthony Jack**Research Institution:** Harvard University**Co-Authors:** Anthony Jack, PhD, Harvard University

SS

Turner, Jessica 5:50, Breakout Room 1*How Neural Networks Learn***Research Mentor:** George Karniadakis**Research Institution:** Brown University**Co-Authors:** George Karniadakis, Brown University; Shengze Cai, Brown University

PS

Turnham, Alice 6:00, Breakout Room 7*Understanding the Mechanisms of RNA Homotypic Clusters***Research Mentor:** Tatjana Trcek**Research Institution:** Johns Hopkins University**Co-Authors:** Siran Tian, Johns Hopkins University; Tatjana Trcek, Johns Hopkins University

BB

Usua, Mbonobong 5:20, Breakout Room 9*In Vivo Monitoring of Tropomyosin Receptor Kinase A Transcytosis in Sympathetic Neurons***Research Mentor:** Guillermo Moya Alvarado**Research Institution:** Johns Hopkins University**Co-Authors:** Rejji Kuruvilla, Johns Hopkins University; Guillermo Moya Alvarado, Johns Hopkins University

BB

van den Berg Monsalve, Antonieta 5:40, Breakout Room 8

Using Protein Thermodynamic Signatures to Identify Covid-19 Auto-Antigens

Research Mentor: Vincent Hilser

Research Institution: Johns Hopkins University

Co-Authors: Vincent J. Hilser, Johns Hopkins University; James O. Wrabl, Johns Hopkins University

BB

Varatharajan, Thulasi 5:30, Breakout Room 1

Investigating the Performance of Deep Learning Methods for Hi-C Resolution Improvement

Research Mentor: Ritambhara Singh

Research Institution: Brown University

Co-Authors: Ritambhara Singh, Brown University; Madeline Hughes, Brown University; Atishay Jain, Brown University; Ghulam Murtaza, Brown University

PS

Vergara, Juan 5:00, Breakout Room 7

“The Pubmed database as an instrument for Analytical and Comparative Scientific Data Logistics” (Preliminary title, do not include)

Research Mentor: Taekjip Ha

Research Institution: Johns Hopkins University

Co-Authors: Taekjip Ha, Johns Hopkins University

AB

Wang, Qian 5:20, Breakout Room 8

Inhibition of NADPH oxidase Improves Coronary Endothelial Function in Mice with Diabetes

Research Mentor: Jun Feng

Research Institution: Brown University

Co-Authors: Jun Feng, Brown University

BB

Ward, Grace 4:30, Breakout Room 1

Imaging the Boundaries in the Crust and Mantle of the Southwestern U.S. From Seismic Waves.

Research Mentor: Eva Golos

Research Institution: Brown University

Co-Authors: Eva Golos, Brown University; Karen Fischer, Brown University

ES

Warrell, Delayna 5:50, Breakout Room 9

Determining the Role of TRADD in Yersinia Induced Apoptosis in Human Macrophages

Research Mentor: Igor Brodsky

Research Institution: University of Pennsylvania

Co-Authors: Igor Brodsky, University of Pennsylvania; Neha Nataraj, University of Pennsylvania

BB

Wu, Amy 4:40, Breakout Room 1

UAV Image-Based Obstacle Detection in Aquatic Environments

Research Mentor: Amy Wu

Research Institution: Dartmouth College

Co-Authors: Alberto Quattrini Li, Dartmouth College; Mingi Jeong, Dartmouth College

PS

Wu, Christine 5:10, Breakout Room 6

Using Genome-Wide Datasets to Predict Antidepressant Treatment Response Following Early Life Stress

Research Mentor: Catherine Peña

Research Institution: Princeton University

Co-Authors: Sero Toriano Parel, Princeton University; Catherine Jensen Peña, Princeton University

BB

Young, Margot 4:50, Breakout Room 1

First Principles Study of Potential Ferroelectric Materials

Research Mentor: Geoffroy Hautier

Research Institution: Dartmouth College

Co-Authors: Geoffroy Hautier, Dartmouth College

PS

Zambrano, Raphael Angelo . . 4:30, Breakout Room 6

Investigation of Drug Melanin Binding Property for Ocular Drug Delivery

Research Mentor: Laura Ensign

Research Institution: Johns Hopkins University

Co-Authors: Dr. Laura Ensign, Johns Hopkins University; Tung-Heng Hsueh, Johns Hopkins University

AB

Oral Presentations

Adams, Arabella 4:30, Breakout Room 19

Power, Control, and Violence: Understanding Domestic Abuse through María De Zayas's Mal presagio casar lejos

Research Mentor: Matthew Tanico

Research Institution: Yale University

Co-Author: Matthew Tanico, Yale University

HU

Arana, Diego 5:40, Breakout Room 17

Lay Ethics: Mapping Preferences for Positions on Normative Deception in Philosophy and Theology

Research Mentor: Emma Levine

Research Institution: University of Chicago

Co-Authors: Solomon Lister, University of Chicago; Emma E Levine, University of Chicago

SS

Ayvar, Bryam 6:00, Breakout Room 13

Simulating Resonant Scattering of Photons in Exoplanet Atmospheres

Research Mentor: Phil Arras

Research Institution: University of Virginia

Co-Author: Phil Arras, University of Virginia

PS

Balde, Maryama 5:20, Breakout Room 19

"I'm the Last One Left:" Greek Chorus and Communal Loss as Subversion of the Hypermasculinized Black Man in Last Black Man In San Francisco

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Natalie Strobach, Johns Hopkins University

HU

Baron, Cora 5:50, Breakout Room 17

(I) Work Hard, (You) Play Hard: Self-Other Asymmetry in Hedonic Advice Giving

Research Mentor: Ed O'Brien

Research Institution: University of Chicago

Co-Authors: Ed O'Brien, University of Chicago; Annabelle Roberts, University of Chicago

SS

Baxa, Connor 5:30, Breakout Room 19

"They will never let a black man be Captain American": Sam Wilson and the Burden of White American Nationalism in The Falcon and the Winter Soldier

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Natalie Strobach, Johns Hopkins University

HU

Presentation Categories

AB Applied Biosciences
Molecular Processes and Genetics, Biochemistry

BB Basic Biosciences
Human Biology & Disease, Public Health, Biomedical Engineering

EN Engineering
Mechanical, Electrical & Materials Engineering

ES Earth Science
Environment Sciences, Geosciences, Marine Sciences

HU Humanities
Literature, Language Arts, History, Media

PE Policy & Ethics
Politics, Policy & Legislation, Ethics, Philosophy & Reasoning

PS Physical Science
Chemistry, Math, Physics, Computer Sciences, Computer Engineering

SS Social Science
Sociology, Economics, Psychology, and Behavior Sciences

Beaumont, Adrian 6:30, Breakout Room 21

The Effects of Financial Reform in China on Access to Credit for Small and Medium-Sized Enterprises

Research Mentor: Emanuele Colonnelli

Research Institution: University of Chicago

Co-Authors: Emanuele Colonnelli, University of Chicago; Thomas Rauter, University of Chicago

SS

Bolanos Zapien, Perla 4:50, Breakout Room 18

Rebel Daughter: The Necessary Rejection of Familismo in Viola Canales' The Tequila Worm

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Natalie Strobach, Johns Hopkins University

HU

Bonilla Garcia, Xavier 4:50, Breakout Room 12

Synthetic Studies Toward Derivatives of Butirosin A

Research Mentor: Steve Townsend

Research Institution: Vanderbilt University

Co-Author: Steven D. Townsend, Vanderbilt University

PS

Bregar, Michael 6:30, Breakout Room 15

Modelling and Simulation of Noise Caused by Time-Changing Magnetic Fields of Domain Walls in Magnetic Tunnel Junctions

Research Mentor: John Marston

Research Institution: Brown University

Co-Authors: Silverio Johnson, Brown University; John Marston, Brown University; Kemp Plumb, Brown University

PS

Brintwood, Dylan 5:10, Breakout Room 17

"The Goal of America is Freedom:" The Rhetorical Appeal to Tradition in "The Southern Manifesto" and King's "Letter from a Birmingham Jail"

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Natalie Strobach, Johns Hopkins University

HU

Buford Jr., Samory 6:50, Breakout Room 15

Using Derivative Free Optimization to Optimize Sensor Placement in MEG

Research Mentor: Stephen Becker

Research Institution: University of Colorado Boulder

Co-Authors: Stephen Becker, University of Colorado Boulder; Richard Clancy, University of Colorado Boulder

PS

Butler, Jennifer 5:10, Breakout Room 20

Genuine or Phony?: The Role of Service-Learning in Guilt Reduction for Universities and Their Students

Research Mentor: David Grusky

Research Institution: Stanford University School of Humanities & Sciences

Co-Authors: David Grusky, Stanford University School of Humanities & Sciences; Alex Chow, Stanford University School of Humanities & Sciences

SS

Campbell, Alexis 5:20, Breakout Room 17

Negative Narrations: A Critique of the Cultural Consequences of Western Racism's Influence on Japanese Anime's Evolution

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Natalie Strobach, Johns Hopkins University

HU

Canelo, Alexis 6:50, Breakout Room 17

Newspapers' Role in Violence: An Analysis of Reporting in the Lead Up and Aftermath of the 1892 Francisco Torres Lynching

Research Mentor: Matthew Tanico

Research Institution: Yale University

Co-Author: Matthew Tanico, Yale University

HU

Carrillo-Gallegos, Carlos 5:00, Breakout Room 13

Characterizing Gas Flow Using Multiply-Lensed Quasars

Research Mentor: Hsiao-Wen Chen

Research Institution: University of Chicago

Co-Author: Hsiao-Wen Chen, University of Chicago

PS

Cedano, Saidy 4:30, Breakout Room 21

"I Don't Want to Live in a City": Re-Presenting the 'city' and the Right to Place-Making in De-Democratized New Brunswick, New Jersey

Research Mentor: Andrea Flores

Research Institution: Brown University

Co-Author: Andrea Flores, Brown University

PE

Chavez, Herman 5:10, Breakout Room 19

Colonial Perspectives in the Art Cuecas of Atiliano Auza León

Research Mentor: Anne Shreffler

Research Institution: Harvard University

Co-Author: Anne C. Shreffler, PhD, Harvard University

HU

Chi, Joy 5:20, Breakout Room 21

Defining Eco-Literacy

Research Mentor: George Scarlett

Research Institution: Tufts University

Co-Author: George Scarlett, Tufts University

HU

Cloutier, Lilyana 5:00, Breakout Room 18

“An Overwhelming Question:” T.S. Eliot’s Concept of Tradition Creates and Reinforces Prufrock’s Dilemma of Modern Disillusionment

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Natalie Strobach, Johns Hopkins University

HU

Collins, Abbey 6:10, Breakout Room 17

What Did She Say? Impact of Linguistic Disfluencies and Race on Word Recognition and Perceived Speaker Knowledge

Research Mentor: Sarah Brown-Schmidt

Research Institution: Vanderbilt University

Co-Author: Sarah Brown-Schmidt, Vanderbilt University

SS

Colunga, Samantha 5:10, Breakout Room 13

Effects of Higher Climate Sensitivity on Vegetation Distribution in a Warming Climate

Research Mentor: Jung-Eun Lee

Research Institution: Brown University

Co-Authors: Jung-Eun Lee, Brown University; Jennifer Kowalczyk, Brown University

ES

Cotté-Alsina, Alejandro 6:00, Breakout Room 20

Are Increased Transparency Policies a Threat to the Stability of Small and Medium-Sized Enterprises in Mexico?

Research Mentor: Thomas Rauter

Research Institution: University of Chicago

Co-Authors: Thomas Rauter, University of Chicago; Emanuele Colonnelli, University of Chicago

SS

Cox, Mary 6:50, Breakout Room 18

‘Instagram vs. Reality’: The effect of Perceived Realness of an Image and ‘Body Positive’ Messaging on Young Women’s Body Image

Research Mentor: Sarah Brown-Schmidt

Research Institution: Vanderbilt University

Co-Author: Sarah Brown-Schmidt, Vanderbilt University

SS

Daire, Gabriella 6:20, Breakout Room 14

Investigating Air Pollution Inequality in Denver, Colorado Using Satellite Remote Sensing and In Situ Aircraft Data

Research Mentor: Sally Pusede

Research Institution: University of Virginia

Co-Authors: Sally Pusede, University of Virginia; Mary

Angelique Demetillo, University of Virginia

ES

Davis, Lucas 5:40, Breakout Room 15

Spintronics

Research Mentor: Joseph Poon

Research Institution: University of Virginia

Co-Authors: Joseph Poon, University of Virginia; Wei Zhou, University of Virginia

PS

Defay, Jack 4:30, Breakout Room 15

Adaptive Coalition Formation Strategies for Decentralized Homogeneous Multirobot Exploration

Research Mentor: Alberto Quattrini Li

Research Institution: Dartmouth College

Co-Authors: Alberto Quattrini Li, Dartmouth College;

Kizito Masaba, Dartmouth College

PS

Deghdegh, Abderraouf 4:50, Breakout Room 13

How Molecular Electrocatalysts Can Help Combat Climate Change By Converting Carbon Dioxide

Research Mentor: Charles Machan

Research Institution: University of Virginia

Co-Author: Dr. Charles Machan, University of Virginia

PS

Diaz, Anna 6:30, Breakout Room 12

Data Fusion Methods in Application to Ocean Acidification George

Research Mentor: George Kariniadakis

Research Institution: Brown University

Co-Authors: George Kariniadakis, Brown University; Xuhui Meng, Brown University

PS

Dillon-Davidson, Zoe 5:50, Breakout Room 15

Bridge Trisections of Knotted Surfaces in the 4-sphere.

Research Mentor: Maggie Miller

Research Institution: Stanford University

Co-Author: Maggie Miller, Stanford University

PS

Drammeh, Abubakary 5:40, Breakout Room 19

“Just Because You’re in the Ghetto Doesn’t Mean You Can’t Grow:” An Analysis of Tupac’s Bildungsroman

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Natalie Strobach, Johns Hopkins University

HU

Dudack, Zoe 6:40, Breakout Room 18

Characterizing Transformation in Wayetu Moore’s “She Would Be King” and Nnedi Okorafor’s “Binti”

Research Mentor: Alison Booth

Research Institution: University of Virginia

Co-Author: Dr. Alison Booth, University of Virginia

HU

Elias Stowell, Eve 4:50, Breakout Room 21

Ghosts of the Future: Drawing Linkages Between Climate Change Denial and Lost Cultural Heritage Through Forced Migration

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Natalie Strobach, Johns Hopkins University

HU

Ellison, Savannah 6:40, Breakout Room 21

The Effect of Company Culture on the Adoption of International Financial Reporting Standards Among Small and Medium Enterprises in Nigeria

Research Mentor: Thomas Rauter

Research Institution: University of Chicago

Co-Authors: Thomas Rauter, University of Chicago; Emanuele Colonnelli, University of Chicago

SS

Ennis, Garrett 6:40, Breakout Room 16

The Influence of Parental Psychopathology on the Parent-Child Bond

Research Mentor: Kathryn Humphreys

Research Institution: Vanderbilt University

Co-Authors: Dr. Virginia Salo, Vanderbilt University; Dr. Kathryn Humphreys, Vanderbilt University

SS

Escobar Palacio, Carolina ... 4:50, Breakout Room 15

Analysis of Non-Convex Optimization Algorithms in Deep Learning

Research Mentor: Chao Gao

Research Institution: University of Chicago

Co-Author: Chao Gao, University of Chicago

PS

Flamenco, Ashley 5:50, Breakout Room 19

“Heart and Soul:” Ian Curtis of Joy Division and His Romanticized Tragedy as Seen in Touching From A Distance

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Natalie Strobach, Johns Hopkins University

HU

Flores, Christine 4:50, Breakout Room 19

The Modern Construction of Sino-Peruvian (Tusán) Identity in the Narratives of Siu Kam Wen

Research Mentor: Graciela Montaldo

Research Institution: Columbia University

Co-Author: Dr. Graciela Raquel Montaldo, Columbia University

HU

Flores, Zahira 6:00, Breakout Room 17

What Gestures Come Into Play When We Talk About the Social World?

Research Mentor: Anjana Lakshmi

Research Institution: University of Chicago

Co-Authors: Susan Goldin-Meadow, University of Chicago; Susan Fiske, University of Chicago; Anjana Lakshmi, University of Chicago

SS

Frank, Emily 6:20, Breakout Room 13

The Effects of Stochastic Forcing and Nonlinear Coupling on Oscillation Modes in Red Giant Stars

Research Mentor: Phil Arras

Research Institution: University of Virginia

Co-Author: Phil Arras, University of Virginia

PS

Fulton, Carolyn 5:00, Breakout Room 12

Developing Machine Learning Frameworks to Study Brain Dynamics and Its Role In Computation

Research Mentor: David van Dijk

Research Institution: Yale University

Co-Authors: Antonio Fonseca, Yale University; David van Dijk, Yale University

PS

Gallardo, Regina 6:20, Breakout Room 19

The Folk Spirit in the Peruvian Indigenistas: The Study of Popular Art and Craft Versus Art Debate

Research Mentor: Megan Sullivan

Research Institution: University of Chicago

Co-Author: Megan Sullivan, University of Chicago

HU

Galloway, Joseph 5:10, Breakout Room 15

Multisensory Integration of Vision and Proximity Sensing for a Robot Arm

Research Mentor: Alessandro Roncone

Research Institution: University of Colorado Boulder

Co-Authors: Dr. Alessandro Roncone, University of Colorado Boulder; Caleb Escobedo, University of Colorado Boulder

PS

Garcia, Yanira 5:40, Breakout Room 20

An Analysis of Underrepresented Students' Sources of Support for Postsecondary Plans

Research Mentor: Bethany Rittle-Johnson

Research Institution: Vanderbilt University

Co-Authors: Bethany Rittle-Johnson, Vanderbilt University; Aarushi Rohila, Vanderbilt University; JaNiya Gibson, Vanderbilt University; Rebecca Adler, Vanderbilt University

SS

Gascon, Nicolas 5:50, Breakout Room 21

A Discussion on the Ethics of Counter-Gentrification Measures in Northern Nashville

Research Mentor: Paul Taylor

Research Institution: Vanderbilt University

Co-Author: Paul Taylor, Vanderbilt University

HU

Gaviria, Elizabeth 4:40, Breakout Room 13

Modeling Seasonal and Interannual Climate Variability in Modern Precipitation Pathways Across Western North America Using Air Parcel Trajectories

Research Mentor: Daniel Ibarra

Research Institution: Brown University

Co-Authors: Catherine Gagnon, Brown University; Daniel Ibarra, Brown University

ES

Gaytan-Gomez, Eduardo 6:50, Breakout Room 21

Vietnam's Rapid Rise: The Impact of Informational Barriers on Vietnam's Rapid Development

Research Mentor: Thomas Rauter

Research Institution: University of Chicago

Co-Authors: Thomas Rauter, University of Chicago; Emanuele Colonnelli, University of Chicago

SS

Gevorgyants, Anahit 4:50, Breakout Room 20

"Death or Drowse:" Vahan Teryan's Poetic Conceptualization of Finitude Amid the Armenian Genocide.

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Natalie Strobach, Johns Hopkins University

HU

Gibbs-Brown, Troy 5:50, Breakout Room 14

*Habitat Suitability Mapping for *Cyanea capillata* in the Hudson River & North East Atlantic*

Research Mentor: Baylor Fox-Kemper

Research Institution: Brown University

Co-Authors: Baylor Fox-Kemper, Brown University; Karen G. Holmberg, New York University; Isabella Gama, Brown University

ES

Gordon, Julianne 6:40, Breakout Room 20

Luta Maria: How Cabo Verdean Women Use Forms of Expression as a Tool of Resistance

Research Mentor: Julian Go

Research Institution: University of Chicago

Co-Author: Julian Go, University of Chicago

SS



Hailemariam, Matthew 5:30, Breakout Room 16

The Impact of Perceived Choice on Diversity Training Effectiveness

Research Mentor: Jane Risen

Research Institution: University of Chicago

Co-Authors: Jane Risen, University of Chicago; Xingruo Zhang, University of Chicago

SS

Hall, Audrey 5:00, Breakout Room 20

Shatter the Screen: The Unreliability of Eyewitness Testimony in The Outrage (1964) and When They See Us (2019)

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Natalie Strobach, Johns Hopkins University

HU

Hall, Rebecca 6:40, Breakout Room 14

The Impact of Arctic Sea Ice Decline on Midlatitude Cyclonic Storms

Research Mentor: Tiffany Shaw

Research Institution: University of Chicago

Co-Authors: Tiffany Shaw, University of Chicago; Joonsuk Kang, University of Chicago

ES

Hamid, Ghazaal 5:00, Breakout Room 21

The 5/5ths Compromise: American Prison Gerrymandering as the Legacy of the 3/5ths Compromise

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Natalie Strobach, Johns Hopkins University

HU

Harrell, Alexis 5:20, Breakout Room 16

Racial Trauma - Examining the Physiological Effects of Racism

Research Mentor: Samuel Sommers

Research Institution: Tufts University

Co-Author: Samuel Sommers, Tufts University

SS

Harvey, Lauren 4:40, Breakout Room 21

More People, Less Papers: How Student Support Programs Can Serve Undocumented Students

Research Mentor: Andrea Flores

Research Institution: Brown University

Co-Author: Dr. Andrea Flores, Brown University

SS

Henry, Michael 6:20, Breakout Room 21

Effects of Economic Shocks on Incarceration Rates

Research Mentor: Belinda Archibong

Research Institution: Columbia University

Co-Author: Dr. Belinda Archibong, Columbia University

SS

Hipnar, Ashley 6:10, Breakout Room 14

Nitrous Oxide Emissions Mitigation in Agricultural Settings

Research Mentor: Noah Planavsky

Research Institution: Yale University

Co-Authors: Noah Planavsky, Yale University; Jason Wagenmaker, Yale University

ES

Hovsepyan, Margarita 5:40, Breakout Room 16

Analyzing the Effects of Acute Stress on Specificity of Detail During Propection

Research Mentor: Hayoung Ahn

Research Institution: University of Chicago

Co-Authors: Akram Bakkour, University of Chicago; Hayoung Ahn, University of Chicago

SS

Jackson, Mitchell 6:50, Breakout Room 16

An Examination of Changes in Visual Avoidance Following a Fear-Outcome Exposure Intervention

Research Mentor: Bumni Olatunji

Research Institution: Vanderbilt University

Co-Authors: Sarah C. Jessup, Vanderbilt University; Bumni O. Olatunji, Vanderbilt University

SS

Jackson, Saadiya 5:10, Breakout Room 18

Urban Inequity, Government Response, and the Literature of the Reverse Great Migration

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Natalie Strobach, Johns Hopkins University

HU

Jaman, Ella Marie 4:40, Breakout Room 18

The First Filipinos: The Philippine novel and nation-building, 1960-1980

Research Mentor: Bruno Bosteels

Research Institution: Columbia University

Co-Author: Bruno Bosteels, Columbia University

HU

Jameson, Brianna 4:30, Breakout Room 14

How the Seascapes of Antarctica are Changing and Affecting Phytoplankton

Research Mentor: Scott Doney

Research Institution: University of Virginia

Co-Author: Scott Doney, University of Virginia

ES

Jean, Brianna 6:00, Breakout Room 21

Envisioning a Site of Black Nationhood: African-American Migration to Haiti during the Nineteenth century

Research Mentor: Brandon Byrd

Research Institution: Vanderbilt University

Co-Author: Brandon Byrd, Vanderbilt University

HU

Jiang, Sally 6:30, Breakout Room 13

Investigation of the Magnetic Interstellar Medium Using Starlight Polarization and Atomic Hydrogen Emission Data

Research Mentor: Susan Clark

Research Institution: Stanford University School of Humanities & Sciences

Co-Author: Susan E. Clark, Stanford University School of Humanities & Sciences

PS

Jones, Justin 6:10, Breakout Room 21

Tracing the Diaspora of the Black Auxiliary Troops of the King of Spain after the Haitian Revolution

Research Mentor: Jane Landers

Research Institution: Vanderbilt University

Co-Authors: Jane Landers, Vanderbilt University; Daniel Genkins, Vanderbilt University

HU

Katzman, Aaron 4:30, Breakout Room 13

Extent of Volatile Element Depletion in the Moon

Research Mentor: Nicolas Dauphas

Research Institution: University of Chicago

Co-Authors: Nicolas Dauphas, University of Chicago; Aleisha Johnson, University of Chicago

ES

Keller, Emma 4:30, Breakout Room 16

Race-related experiences of Black-White Biracial Adolescents: A Sibling study on Discrimination and Parental Socialization as Functions of Parental Racial Heritage

Research Mentor: Velma McBride Murry

Research Institution: Vanderbilt University

Co-Author: Dr. Velma McBride Murry, Vanderbilt University

SS

Kidd, Liam 4:40, Breakout Room 15

Flow Battery Systems and Techno Economics

Research Mentor: Liam Kidd

Research Institution: University of Virginia

Co-Author: Gary Koenig, University of Virginia

PS

Kim, Alysea 6:20, Breakout Room 15

Classification of Substrate Surface Reconstructions for Superconductor Growth Using Electron Diffraction Analysis

Research Mentor: Shuolong Yang

Research Institution: University of Chicago

Co-Author: Shuolong Yang, University of Chicago

EN

King, Daniel 6:10, Breakout Room 13

Model of Carbon Dioxide in Seawater for Capture and Usage.

Research Mentor: Shu Hu

Research Institution: Yale University

Co-Author: Shu Hu, Yale University

PS

Kreeger, Lauren 5:30, Breakout Room 14

Anisotropy of Sp and Ps Waves as a Potential Cause of the MLD

Research Mentor: Jeffery Park

Research Institution: Yale University

Co-Author: Jefferey Park, Yale University

ES

Kuwaye, Emily 5:00, Breakout Room 19

Fan Painting in the Momoyama Period: Kano Soshu's Views of Kyoto (ca. early 1580s)

Research Mentor: Matthew McKelway

Research Institution: Columbia University

Co-Author: Matthew McKelway, Columbia University

HU

Kysela, Elizabeth 6:50, Breakout Room 14

Trends in Pollution Source Regions in the Northeastern US in Response to the Clean Air Act

Research Mentor: Wendell Walters

Research Institution: Brown University

Co-Authors: Wendell Walters, Brown University; Heejeong Kim, Brown University; Isabella Pulzone, Brown University; Meredith Hastings, Brown University

ES

Lane, Annalissa 6:30, Breakout Room 19

The Curated Nostalgia of Christian Nationalism

Research Mentor: Curtis Evans

Research Institution: University of Chicago

Co-Author: Curtis Evans, University of Chicago

HU

Lee, Jennie 5:20, Breakout Room 13

Characterizing the Transition from Shallow to Deep Convection in the Tropics at High Spatio-Temporal Resolution Using Geostationary Imagery

Research Mentor: Kathleen Schiro

Research Institution: University of Virginia

Co-Author: Kathleen Schiro, University of Virginia

ES

Legiste, Esther 6:20, Breakout Room 17

Examining the Speech Rates Between Immigrants and Non-Immigrants

Research Mentor: Duane Watson

Research Institution: Vanderbilt University

Co-Author: Duane Watson, Vanderbilt University

SS

Leutwyler, Elijah 5:20, Breakout Room 18

"Lovers Sometimes Seem Ridiculous:" Taking Back Intimacy For Male Friendship in the Works of Aristotle and Plato

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Natalie Strobach, Johns Hopkins University

HU

Lim, Sungyoon 4:50, Breakout Room 16

Individual Differences in Temporal Self-Compression Rates Predict Impulsive Decision Making

Research Mentor: Meghan Meyer

Research Institution: Dartmouth College

Co-Authors: Sasha Brietzke, Dartmouth College; Meghan Meyer, Dartmouth College

SS

Lineburg, Leyton 4:30, Breakout Room 12

Modeling Mood Rhythms in Social Media

Research Mentor: Afsaneh Doryab

Research Institution: University of Virginia

Co-Authors: Afsaneh Doryab, University of Virginia; Runze Yan, University of Virginia

PS

Mangano, Alison 5:30, Breakout Room 13

The Potential Sources and Sinks Responsible for the 2020 Increase in Methane Concentration

Research Mentor: Loretta Mickley

Research Institution: Harvard University

Co-Authors: Loretta Mickley, PhD, Harvard University; Zhen Qu, PhD, Harvard University; Shixian Zhai, PhD, Harvard University

PS

March, Kyra 4:40, Breakout Room 19

A Tale of Two Harriets: The History of Harriet Jacobs and Harriet Beecher Stowe's Homes

Research Mentor: Matthew Tanico

Research Institution: Yale University

Co-Author: Matthew Tanico, Yale University

HU

Martinez, Nathalie 6:40, Breakout Room 19

From Stories to Scripts: The Ethics of Cultural (Mis)Appropriation in the Performing Arts

Research Mentor: Nancy Kawalek

Research Institution: University of Chicago

Co-Author: Nancy Kawalek, University of Chicago

HU

Mason-Hogans, Akanke 5:00, Breakout Room 15

Designing Monolayer Films for Nanoscale Lubrication Using Machine Learning

Research Mentor: Clare McCabe

Research Institution: Vanderbilt University

Co-Authors: Clare McCabe, Vanderbilt University; Co D. Quach, Vanderbilt University; Justin B. Gilmer, Vanderbilt University

PS

Mason, Deja 5:30, Breakout Room 21

Transcending Settler Colonialism: Black and Indigenous Communities in the Great Dismal Swamp

Research Mentor: SJ Zhang

Research Institution: University of Chicago

Co-Author: SJ Zhang, University of Chicago; Danielle Jones, University of Chicago

HU

Maxfield, Rachel 4:50, Breakout Room 17

Cues over Consolidation: How Partisanship Affects the Democratic Values of the American Electorate

Research Mentor: Matthew Levendusky

Research Institution: University of Pennsylvania

Co-Author: Matthew Levendusky, University of Pennsylvania

PE

McGill, Felicia 5:30, Breakout Room 17

Can Spiders and Clouds Share a Name? Learning How Words Generalize in Other Languages.

Research Mentor: Casey Lew-Williams

Research Institution: Princeton University

Co-Authors: Casey Lew-Williams, Princeton University; Sammy Floyd, Princeton University

SS

McKillop, Alexander 5:40, Breakout Room 12

Elucidating the Mechanism of a Novel Ring Expansion Reaction Via a Computational Study.

Research Mentor: Mark Levin

Research Institution: University of Chicago

Co-Authors: Mark Levin, University of Chicago; Patrick Kelly, University of Chicago

PS

Mendoza, Yasmin 4:30, Breakout Room 17

Banning Without Bans

Research Mentor: Allison Booth

Research Institution: University of Virginia

Co-Author: Allison Booth, University of Virginia

HU

Moore, Camela 5:00, Breakout Room 14

Exploring how Seasonality Influences Home Range Size and Spatial Overlap of Large Herbivore Species as They Migrate Through Yellowstone National Park.

Research Mentor: Bethan Littleford-Colquhoun

Research Institution: Brown University

Co-Authors: Bethan Littleford-Colquhoun, Brown University; Tyler Kartzinell, Brown University

ES

Murray, Layla 6:30, Breakout Room 17

We Need to Talk: Analyzing Speech Rate and Convergence When Engaging in ‘Easy’ versus ‘Difficult’ Conversations Across African-American Participants

Research Mentor: Duane Watson

Research Institution: Vanderbilt University

Co-Author: Duane Watson, Vanderbilt University

SS

Murray, Taylor 6:20, Breakout Room 16

Single Unit Analysis of Visual Cortices Reveal Circuit Mechanisms of Learning Deficit in Preterm Mice.

Research Mentor: Adema Ribic

Research Institution: University of Virginia

Co-Author: Adema Ribic, University of Virginia

SS

Nelson, Tyler 5:00, Breakout Room 16

Using a Supervised Machine Learning Model to Detect Freezing Behavior in Mice

Research Mentor: Victoria Corbit

Research Institution: Princeton University

Co-Authors: Ilana Witten, Princeton University; Victoria Corbit, Princeton University

SS

Norman Ing, Nainoa 6:10, Breakout Room 12

Bioorganic Investigation of the Aminoglycoside Antibiotic Butirosin A

Research Mentor: Steven Townsend

Research Institution: Vanderbilt University

Co-Author: Steven D. Townsend, Vanderbilt University

PS

Noxon, Mackenzie 6:30, Breakout Room 18

Thomas Mann's Russian Anthology: Mann's Reception and Interpretation of Russian Literature in German Translation

Research Mentor: Olga Solovieva

Research Institution: University of Chicago

Co-Authors: Dr. Olga Solovieva, University of Chicago; Oliver Okun, University of Chicago

HU

Onyekonwu, Chiemelie 6:10, Breakout Room 20

Opportunities for Improvement in the Investment Environment of Italian Small- and Medium-Sized Enterprises (SMEs)

Research Mentor: Thomas Rauter

Research Institution: University of Chicago

Co-Authors: Thomas Rauter, University of Chicago; Emanuele Colonnelli, University of Chicago

SS

Orea, Jessica 6:30, Breakout Room 16

The Role of Emotions in Prejudice Confrontation

Research Mentor: Sophie Trawalter

Research Institution: University of Virginia

Co-Author: Sophie Trawalter, University of Virginia

SS

Orenuga, Ireolu 6:40, Breakout Room 15

Simulation of Alternative Anode Material for Sintered Electrode Lithium-Ion Batteries

Research Mentor: Gary Koenig

Research Institution: University of Virginia

Co-Authors: Gary Koenig, University of Virginia; Chen Cai, University of Virginia

EN

Ortiz, Dylan 6:00, Breakout Room 19

"A Privilege to be Among Them." The Parallels Between Vision and Pinocchio's Fellowship with Humanity in the Marvel Universe

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Natalie Strobach, Johns Hopkins University

HU

Oshagbemi, Josephine 4:30, Breakout Room 20

Racial Disparities in Discipline for High School Boys

Research Mentor: Anna Aizer

Research Institution: Brown University

Co-Author: Jayanti Owens, Brown University

SS

Osunnuyi, Anuoluwapo 5:10, Breakout Room 14

A Knowledge Based Model That Answers Questions Regarding Sustainable Urbanization

Research Mentor: James Ross

Research Institution: University of Chicago

Co-Authors: Dr. Sendhil Mullainathan, University of Chicago; James Ross, University of Chicago

PS

Oyola-Cortes, Jose 6:10, Breakout Room 15

Invariance of Hyperbolic Dynamical Systems

Research Mentor: Robin Deeley

Research Institution: University of Colorado Boulder

Co-Authors: Robin Deeley, University of Colorado Boulder; Rachel Chaiser, University of Colorado Boulder

PS

Panday, Frances Marie 6:30, Breakout Room 14

US Trends in Wildfire Smoke Derived from Satellite and Airport Data from 2010-2020

Research Mentor: Loretta Mickley

Research Institution: Harvard University

Co-Authors: Tianjia Liu, Harvard University; Drew Pendergrass, Harvard University; Makoto Kelp, Harvard University

Loretta Mickley, PhD, Harvard University

ES

Panton, Julianna 5:30, Breakout Room 20

Discrimination, Seeking Support, and Subjective Well-Being in Black and Latinx College Students: A Comparative Study

Research Mentor: Noelle Hurd

Research Institution: University of Virginia

Co-Authors: Ariana Rivens, University of Virginia; David Freire, University of Virginia; Noelle Hurd, University of Virginia

SS

Parque, Charlotte 5:50, Breakout Room 16

Wanting Closure Reduces Motivation to Double-Check and Revise

Research Mentor: Ayelet Fishbach

Research Institution: University of Chicago

Co-Authors: Annabelle Roberts, University of Chicago; Ayelet Fishbach, University of Chicago

SS

Pavelites, Samuel 5:50, Breakout Room 12

Teaching Computers How to Predict Chemical Reactions

Research Mentor: Todd Martinez

Research Institution: Stanford University School of Humanities & Sciences

Co-Authors: Cody Aldaz, Stanford University School of Humanities & Sciences; Alessio Valentini, Stanford University School of Humanities & Sciences; Todd Martinez, Stanford University School of Humanities & Sciences

PS

Pearson, Jasmine 5:20, Breakout Room 15

Information Processing in a Retina using a Computational Model

Research Mentor: Gabrielle Gutierrez

Research Institution: Columbia University

Co-Author: Gabrielle Gutierrez, Columbia University

PS

Peña, Angela 6:10, Breakout Room 19

“Ni de aquí, ni de allá:” The Inbetweenness of La Malinche in Josefina López’s Real Women Have Curves

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Natalie Strobach, Johns Hopkins University

HU

Perez, Stephanie 4:40, Breakout Room 14

Mathematical Modeling of Per- and Polyfluoroalkyl Substances (PFAS) Transport in Unsaturated Soils Including Air-Water Interfacial Adsorption

Research Mentor: Kurt Pennell

Research Institution: Brown University

Co-Authors: Kurt Pennell, Brown University; Shuchi Liao, Brown University

ES

Pierson, Amon 4:30, Breakout Room 18

Black Beings, Corrupted Tongues: Encountering Language in the Aftermath of Slavery.

Research Mentor: Marta Figlerowicz

Research Institution: Yale University

Co-Author:

HU

Plonski, Alexander 4:40, Breakout Room 12

Protein Core Formation in Molecular Dynamics Simulations

Research Mentor: Corey O’Hern

Research Institution: Yale University

Co-Authors: Alex Grigas, Yale University; Corey O’Hern, Yale University

PS

Porter, Asia 5:40, Breakout Room 21

A Racial Equity Case Study of the Provision of Parks and Other Amenities in Arlington County

Research Mentor: Aaron Schroeder

Research Institution: University of Virginia

Co-Authors: Eric Oh, University of Virginia; Kathryn Linehan, University of Virginia; Aaron Schroeder, University of Virginia; Digvijay Ghotane, University of Virginia; Morgan Stockham, University of Virginia

SS

Ralston, Sabela 4:40, Breakout Room 20

Teachers, Education, and Segregation: The Long-Term Growth of Private Education in India

Research Mentor: Emmerich Davies

Research Institution: Harvard University

Co-Authors: Clarence Harley, Harvard University; Emmerich Davies, PhD, Harvard University

SS

Randhawa, Tejpal 5:10, Breakout Room 12*Predicting Stable Layered Perovskite Structures***Research Mentor:** Hemamala Karunadasa**Research Institution:** Stanford University School of Humanities & Sciences**Co-Authors:** Hemamala Karunadasa, Stanford University School of Humanities & Sciences; Julian Vigil, Stanford University School of Humanities & Sciences

PS

Reynoso, Jeanette 5:50, Breakout Room 20*Exploring Solutions for Diversity Pipeline Programs for Prospective Juris Doctorate Students***Research Mentor:** Kelly Slay**Research Institution:** Vanderbilt University**Co-Author:** Dr. Kelly Slay, Vanderbilt University

SS

Rivera Crespo, Rocio 5:20, Breakout Room 20*Is it still Impressive? Making Sense of Achievements Surrounding Privilege in Competitive Colleges***Research Mentor:** George Wu**Research Institution:** University of Chicago**Co-Author:** George Wu, University of Chicago

SS

Roddey, Kayla 4:40, Breakout Room 17*Confidence in the Press: Democracy and American Views on the Fourth Estate***Research Mentor:** Robert Shapiro**Research Institution:** Columbia University**Co-Author:** Robert Shapiro, Columbia University

SS

Rosario, Adriana 5:00, Breakout Room 17*Support for Democracy and its Alternatives***Research Mentor:** Elizabeth Zechmeister**Research Institution:** Vanderbilt University**Co-Author:** Oscar Castorena, Vanderbilt University

SS

Rouabhi, Kawther 5:20, Breakout Room 14*Estimating turbidity and total suspended solids of the Peace-Athabasca Delta using multispectral UAV images***Research Mentor:** Laurence Smith**Research Institution:** Brown University**Co-Authors:** Ethan Kyzivat, Brown University; Laurence C. Smith, Brown University

ES

Rukh-Kamaa, Frederick 5:20, Breakout Room 12*How Faces Determine Pre-Trial Release Likelihood***Research Mentor:** James Ross**Research Institution:** University of Chicago**Co-Authors:** James Ross, University of Chicago; Dr. Sendhil Mullainathan, University of Chicago

PS

Salisbury, Alma 5:40, Breakout Room 14*The Geometry of Glacial and Non-Glacial Lakes in Antarctica and the Americas***Research Mentor:** Lauren Simkins**Research Institution:** University of Virginia**Co-Author:** Lauren Simkins, University of Virginia

ES

Santiago, Angel 6:00, Breakout Room 15*Navigation of a Self-Driving Car***Research Mentor:** Matthew Walter**Research Institution:** University of Chicago**Co-Author:** Matthew Walter, University of Chicago

PS

Schiavone, Selene 4:40, Breakout Room 16*The Influence of Perceived Control and Received Reward on Slot Machine Gambling***Research Mentor:** Frederike Petzschner**Research Institution:** Brown University**Co-Authors:** Frederike Petzschner, Brown University; Stephanie Olaiya, Brown University

SS

Sharaflari, Raha 5:30, Breakout Room 18*God from Foe to Friend: Spiritual Awakenings and Psychological Transformations by Recovering Addicts in *Seeds of Grace* and *Pour Me a Life****Research Mentor:** Natalie Strobach**Research Institution:** Johns Hopkins University**Co-Author:** Natalie Strobach, Johns Hopkins University

HU

Shiner, Hannah 5:40, Breakout Room 18*Destitute or Deranged: Understanding Class Disparities in Interpretations of Mental Illness and Gender In *Jane Eyre* and *Wide Sargasso Sea****Research Mentor:** Natalie Strobach**Research Institution:** Johns Hopkins University**Co-Author:** Natalie Strobach, Johns Hopkins University

HU

Shinh, Reema 5:50, Breakout Room 13*Marine phytoplankton abundance in the North Pacific Blob*

Research Mentor: Reema Shinh

Research Institution: University of Colorado Boulder

Co-Author: Nicole Lovenduski, University of Colorado Boulder

ES

Slaughter, Joshua 5:10, Breakout Room 16*Toward Using Convolutional Neural Networks to Predict Human Behavior and Neural Representations*

Research Mentor: Jonathan Cohen

Research Institution: Princeton University

Co-Authors: Jonathan Cohen, Princeton University; Marius Catalin Iordan, Princeton University

SS

Smith, Alexa 6:20, Breakout Room 20*Corporate Transparency, Corporate Social Responsibility, and Family-Owned Enterprises in India*

Research Mentor: Thomas Rauter

Research Institution: University of Chicago

Co-Authors: Thomas Rauter, University of Chicago; Emanuele Colonnelli, University of Chicago

SS

Smith, Rayal 6:00, Breakout Room 12*Exploring the Structural Landscape of Rare-Earth Reactive-Oxygen Species Using Computational Chemistry*

Research Mentor: Jerome Robinson

Research Institution: Brown University

Co-Authors: Samantha Magpantay, Brown University; Alexander Brown, Brown University; Dr. Jerome Robinson, Brown University

PS

Spagnuolo, Isabella 6:50, Breakout Room 19*The Rhythm of Rome: Dance and Social Embodiment in Horace's Odes*

Research Mentor: Michèle Lowrie

Research Institution: University of Chicago

Co-Authors: Michèle Lowrie, University of Chicago; Jenna Sarchio, University of Chicago

HU

Spencer, Zoe 5:30, Breakout Room 12*The Influence of Demographic Factors on Learning of Latent Task Structures Across Individuals*

Research Mentor: Linda Yu

Research Institution: Brown University

Co-Author: Linda Yu, Brown University

PS

Springer, Paul 6:40, Breakout Room 17*How did Black newspapers in the US and Brazil interpret the Crimean War (1853-56)?*

Research Mentor: Paul Springer

Research Institution: Vanderbilt University

Co-Author: Dr. Celso Castilho, Vanderbilt University

HU

Stewart, Brittany 5:50, Breakout Room 18*"Words Are Not Friends:" A Derridean Understanding of Friendship in Antigone and Their Eyes Were Watching God*

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Natalie Strobach, Johns Hopkins University

HU

Suarez Schmidt, Sebastian . . . 5:30, Breakout Room 15*Mapping Protein Sequence to Function Using Deep Learning*

Research Mentor: Andrew Ferguson

Research Institution: University of Chicago

Co-Authors: Andrew Ferguson, University of Chicago; Nikša Praljak, University of Chicago

EN

Terrell, Timethius 6:00, Breakout Room 16*Precursors to Privilege: The Availability Heuristic in Adults and Children*

Research Mentor: Katie Kinzler

Research Institution: University of Chicago

Co-Authors: Katherine Kinzler, University of Chicago; Radhika Santhanagopalan, University of Chicago

SS

Thomas, Noah 6:00, Breakout Room 18

“I Will Not Hold Water in My Mouth:” Africana Oratory as Subversive Activism in Fred Hampton’s “I Am a Revolutionary” Speech

Research Mentor: Natalie Strobach
Research Institution: Johns Hopkins University
Co-Author: Natalie Strobach, Johns Hopkins University
HU

Thomas, Seth 6:30, Breakout Room 20

The Effect of Environmental, Social and Governance (ESG) Reporting on Access to Finance in Brazil

Research Mentor: Emanuele Colonnelli
Research Institution: University of Chicago
Co-Authors: Thomas Rauter, University of Chicago; Emanuele Colonnelli, University of Chicago
SS

Topalis, Alexander 5:10, Breakout Room 21

Welcome Home, and Don’t Come Back: Collective Transnational Impacts on Ethnic Turks Decades After “The Big Excursion”?

Research Mentor: Natalie Strobach
Research Institution: Johns Hopkins University
Co-Author: Natalie Strobach, Johns Hopkins University
HU

Tsitohay, Eva 6:10, Breakout Room 18

“Our Skin is Trouble:” The Contestation of Black Identity Against Whiteness in Sizwe Bansi is Dead

Research Mentor: Natalie Strobach
Research Institution: Johns Hopkins University
Co-Author: Natalie Strobach, Johns Hopkins University
HU

Udoh, Nubia 4:50, Breakout Room 14

Determining the Net Contribution of Carbon Dioxide to Ancient Mars’s Atmosphere by Impactors on Its Surface

Research Mentor: Jun Korenaga
Research Institution: Yale University
Co-Author: Jun Korenaga, Yale University
PS

Urbina, Jorge 6:20, Breakout Room 12

Utilizing Coarse-Grained Simulations to Deduce the Size and Diffusion of Amyloid Oligomers

Research Mentor: Zachary Levine
Research Institution: Yale University
Co-Author: Zachary Levine, Yale University
PS

Wagenmaker, Jason 6:00, Breakout Room 14

Looking at Ways to Address Carbon Emissions from Nitrogen Fertilizer Acidification

Research Mentor: Noah Planavsky
Research Institution: Yale University
Co-Authors: Noah Planavsky, Yale University; Ashley Hipnar, Yale University
ES

Ware, Wisdom 6:20, Breakout Room 18

Reflections from the Inbetween: Depicting Fugitive Blackness through Dialogue in Tiana Clark’s I Can’t Talk About the Trees Without the Blood

Research Mentor: Natalie Strobach
Research Institution: Johns Hopkins University
Co-Author: Dean Natalie Strobach, Johns Hopkins University
HU

Wexler, Caroline 5:40, Breakout Room 13

Modeling the Ocean’s Overturning Circulation Response to Surface Warming

Research Mentor: Malte Jansen
Research Institution: University of Chicago
Co-Author: Malte Jansen, University of Chicago
ES

Williams, Azriel 6:10, Breakout Room 16

Expected Forgiveness: Social Communication of Exploitation and Forgiveness

Research Mentor: Shereen Chaudhry
Research Institution: University of Chicago
Co-Authors: Shereen Chaudhry, University of Chicago; Emma Levine, University of Chicago
SS

Oral Presentations

Akhidenor, Naomi 5:40, Breakout Room 24

Investigating Levels of Distress Associated with Police Harassment Due to Race/Sexuality in a Population of Black Men Who Have Sex with Men

Research Mentor: Maria Khan

Research Institution: New York University

Co-Authors: Maria Khan, New York University; Molly Remch, New York University

AB

Alonge, Adetola 4:30, Breakout Room 28

A Machine Learning Pipeline for the Segmentation and Analysis of Cancerous Vascular Networks Detected via Raster-scan Optoacoustic Mesoscopy (RSOM)

Research Mentor: Benedict McLarney

Research Institution: Weill Cornell Medical College

Co-Authors: Benedict Mc Larney, Weill Cornell Medical College; Magdelana Skubal, Weill Cornell Medical College; Jan Grimm, Weill Cornell Medical College

BB

Alzugaray, Kaytlin 4:30, Breakout Room 26

Metabolic Role of White Adipose Tissue (WAT) in Obesity-Related Breast Cancer

Research Mentor: Kristy Brown

Research Institution: Weill Cornell Medical College

Co-Author: Kristy A. Brown, Weill Cornell Medical College

BB

Ayankunbi, Racheal 5:10, Breakout Room 29

Identification of Neomorphic C-Termini Protein Tails in Tumors from Large Clinical Dataset

Research Mentor: Aaron Stonestrom

Research Institution: Weill Cornell Medical College

Co-Authors: Aaron Stonestrom, Weill Cornell Medical College; Ross Levine, Weill Cornell Medical College

AB

Barcelos, Dylan 5:40, Breakout Room 31

Identifying Novel Regulators of Germinal Center B Cell Stemness and Lymphomagenesis

Research Mentor: Effie Apostolou

Research Institution: Weill Cornell Graduate School

Co-Authors: Eftychia Apostolou, Weill Cornell Graduate School; Laurianne Scourzic, Weill Cornell Graduate School

AB

Barksdale, Briah 4:40, Breakout Room 26

Characterizing the Acid Resistance Mechanisms of Uropathogenic Escherichia coli

Research Mentor: Maria Hadjifrangiskou

Research Institution: Vanderbilt University

Co-Authors: Maria Hadjifrangiskou, Vanderbilt University; Michelle Wiebe, Vanderbilt University

BB

Presentation Categories

AB Applied Biosciences
Molecular Processes and Genetics, Biochemistry

BB Basic Biosciences
Human Biology & Disease, Public Health, Biomedical Engineering

EN Engineering
Mechanical, Electrical & Materials Engineering

ES Earth Science
Environment Sciences, Geosciences, Marine Sciences

HU Humanities
Literature, Language Arts, History, Media

PE Policy & Ethics
Politics, Policy & Legislation, Ethics, Philosophy & Reasoning

PS Physical Science
Chemistry, Math, Physics, Computer Sciences, Computer Engineering

SS Social Science
Sociology, Economics, Psychology, and Behavior Sciences

Barrett, Mykel 4:30, Breakout Room 27

Using Artificial Intelligence in Bioinformatics and Experimental Evaluation to Dissect the Molecular Anatomy of Developmental Gene Regulatory Networks

Research Mentor: David Eliezer
 Research Institution: Weill Cornell Graduate School
 Co-Author: David Eliezer, Weill Cornell Graduate School
BB

Bennetts, Sofia 5:00, Breakout Room 24

Testing neural Circuitry Underlying Nicotine Withdrawal Symptoms in Mice

Research Mentor: Daniel McGehee
 Research Institution: University of Chicago
 Co-Authors: Alexis Monical, University of Chicago; Daniel McGehee, University of Chicago
AB

Betancourt, Ana 4:40, Breakout Room 27

Does Pollination Mode Predict Floral Traits In North American Silene Species?

Research Mentor: Andrea Berardi
 Research Institution: Harvard University
 Co-Authors: Andrea Berardi, PhD, Harvard University; Robin Hopkins, PhD, Harvard University
BB

Beugelsdyk, Lauren 5:50, Breakout Room 22

Toward Examining Event Segmentation in Mental Health Disorders

Research Mentor: Yael Niv
 Research Institution: Princeton University
 Co-Authors: Nora Wolf, Princeton University; Oded Bein, Princeton University; Yael Niv, Princeton University
SS

Bhatti, Esha 5:00, Breakout Room 23

Covered, Not Constricted: Muslim Women Counteract Perceptions of Gendered Oppression in Islam through Autobiography

Research Mentor: Natalie Strobach
 Research Institution: Johns Hopkins University
 Co-Author: Natalie Strobach, Johns Hopkins University
HU

Bhavsar, Harshil 6:50, Breakout Room 30

Volumetric Changes of Mammillary Bodies across the Stages of Alzheimer's Disease

Research Mentor: Makoto Ishii
 Research Institution: Weill Cornell Medical College
 Co-Author: Dr. Makoto Ishii, Weill Cornell Medical College
AB

Boatright, Ashley 4:50, Breakout Room 27

Mimicking A Cellular Environment For RNA Folding Studies

Research Mentor: Caitlyn Davis
 Research Institution: Yale University
 Co-Author: Hyejin Yoo, Yale University
BB

Bridgeman, Timmy 4:30, Breakout Room 23

In Sunlight: Black Boys Glow Gold: Joy and Space in Black Queer Male Memoir

Research Mentor: Heather Cole
 Research Institution: Brown University
 Co-Author: Heather Cole, Brown University
HU

Bright-Awonuga, Fehintola 5:50, Breakout Room 24

The Effects of Economic Interventions on Linkage to Care, Retention, and Adherence to ART Amongst Young People Living with HIV in sub-Saharan Africa: A Systematic Review

Research Mentor: Omar Galarraga
 Research Institution: Brown University
 Co-Author: Dr. Omar Galarraga, Brown University
AB

Brooks, Jacob 5:20, Breakout Room 29

Identifying the Gene Targets of Soft Tissue Sarcomas that Fuel Recurrence and Treatment Resistance

Research Mentor: Julie Rhoades
 Research Institution: Vanderbilt University
 Co-Authors: Erik Beadle, M.S, Vanderbilt University; Julie Rhoades, PhD, Vanderbilt University
AB

Busigó Torres, Rodnell 5:00, Breakout Room 27

Digging for diamonds: mining multi-agent DNA Damage repair screen data for novel cancer-specific survival genes

Research Mentor: Agata Smogorzewska
Research Institution: Weill Cornell Medical College
Co-Author: Christian Saffran, Weill Cornell Medical College
BB

Candelaria Esteves, Angely 4:30, Breakout Room 25

Defining the role of CD56 (NCAM) on Stromal cells in NK cells development by transcriptome analysis

Research Mentor: Everardo Hegewisch Solloa
Research Institution: Columbia University
Co-Authors: Everardo Hegewisch Solloa, Columbia University; Emily Mace, Columbia University
BB

Castillo, Destinee 6:00, Breakout Room 22

Assessing the Impact of the American Recovery and Reinvestment Act SNAP Increase on Childhood Nutrition

Research Mentor: Matt Notowidigdo
Research Institution: University of Chicago
Co-Author: Matt Notowidigdo, University of Chicago
SS

Caton, Deja 4:50, Breakout Room 26

*The Role of Metallothionein 1 & 2 in the Liver of *Mus Musculus**

Research Mentor: Jennifer Gamarra
Research Institution: Columbia University
Co-Author: Jennifer Gamarra, Columbia University
BB

Chacon, Andrea 5:10, Breakout Room 23

Bad Bunny's Bad Lyrics: Understanding the Faux Feminism in Bad Bunny's Collaborations

Research Mentor: Natalie Strobach
Research Institution: Johns Hopkins University
Co-Author: Natalie Strobach, Johns Hopkins University
HU

Chen, Hannah 5:30, Breakout Room 30

Impact of TRIO Mutations on the Spatiotemporal Dynamics of Cortical Activity

Research Mentor: Jessica Cardin
Research Institution: Yale University
Co-Authors: Jessica Cardin, Yale University; Anthony Koleske, Yale University; Clayton Barnes, Yale University
AB

Coleman, Caitlyn 4:40, Breakout Room 25

Uncharted Territory: Exploring the Coevolution of Zinc Finger Proteins and Transposable Elements Across Metazoans

Research Mentor: Cedric Feschotte
Research Institution: Cornell University
Co-Authors: Cedric Feschotte, Cornell University; Jonathan N Wells, Cornell University
BB

Coleman, Nalani 5:10, Breakout Room 27

Determining the optimal Clustered Regularly Interspaced Short Palindromic Repeats-based mutagenesis method for screening to recapitulate clinically observed mutations of DNA methyltransferase 3A in hematological malignancies

Research Mentor: Brian Liao
Research Institution: Harvard University
Co-Authors: Brian Liao, PhD, Harvard University; Emma Garcia, Harvard University; Nicholas Lue, Harvard University
BB

Cruz-Bonilla, Alexxa 4:30, Breakout Room 29

A Road Map to Human vs. Mouse Neutrophil Pathobiology

Research Mentor: Craig Lefort
Research Institution: Brown University
Co-Author: Craig Lefort, Brown University
AB

Darbouze, Marsha 5:20, Breakout Room 27

Squamous Cell Carcinoma in Fanconi Anemia: Identification of Mutational Drivers & Therapeutic Targets Through CRISPR Genetic Screen Analysis

Research Mentor: Nicolas Blobel & Cayla Broton
Research Institution: Weill Cornell Medical College
Co-Authors: Nicolas Blobel, Weill Cornell Medical College; Cayla Broton, Weill Cornell Medical College; Agata Smogorzewska, Weill Cornell Medical College

BB

Davies, John 5:30, Breakout Room 29

Influence of VISTA on Murine Liver and Lymphatic T-cell Populations in Septic Mice

Research Mentor: John Davies
Research Institution: Brown University
Co-Authors: Alfred Ayala, Brown University; Chyna Lovell, Brown University

AB

Edwards, Denzel 5:20, Breakout Room 24

Assessment of socio-demographic heterogeneity in regards to COVID-19 testing and hospitalizations

Research Mentor: Andrea Troxel
Research Institution: New York University
Co-Authors: Dr. Hayley Belli, New York University; Dr. Andrea Troxel, New York University

AB

Esquilin Rodriguez, Christian 4:50, Breakout Room 25

Developing new strategies to examine pair bonds in prairie voles

Research Mentor: Lisa Hiura
Research Institution: University of Colorado Boulder
Co-Author: Lisa Hiura, University of Colorado Boulder

BB

Fonticella, Jay 5:00, Breakout Room 26

The Development of a Pipeline to Analyze RNA Foci in C9orf72 Amyotrophic Lateral Sclerosis

Research Mentor: Natalie Barretto
Research Institution: Columbia University
Co-Authors: Natalie Barretto, Columbia University; Shawn Liu, Columbia University

BB

Galaviz Huerta, Frida 6:10, Breakout Room 24

Ideal Polymer Concentrations: Reducing Image Brightness in Flexible Radiofrequency Coils

Research Mentor: Simone Winkler
Research Institution: Weill Cornell Graduate School
Co-Authors: Simone Winkler, Weill Cornell Medical College; Elizaveta Motovilova, Weill Cornell Medical College

AB

Garcia, Angel 5:00, Breakout Room 25

Regulatory Genes for Loss of Heterozygosity in Irradiated Drosophila melanogaster Wing Discs

Research Mentor: Jeremy Brown
Research Institution: University of Colorado Boulder
Co-Authors: Tin Tin Su, University of Colorado Boulder; Jeremy Brown, University of Colorado Boulder

BB

Garcia, Mario 4:40, Breakout Room 31

CREB5 Transcription Factor Is Important in Articular Cartilage Development

Research Mentor: April Craft
Research Institution: Harvard University Div. of Medical Sciences
Co-Authors: April Craft, PhD, Harvard University Div. of Medical Sciences

AB

Gee, Devin 5:10, Breakout Room 25

Investigating Reciprocal Changes In Adipocytes And Adjacent Cancer Cells

Research Mentor: Paul Cohen
Research Institution: Weill Cornell Medical College
Co-Authors: Xiaojing Huang, Weill Cornell Medical College; Paul Cohen, Weill Cornell Medical College

BB

Gil-Hernandez, Dariana 5:10, Breakout Room 22

Does Treatment Engagement Improve the Prediction of Suicide Risk at One and Six-Month Follow-up?

Research Mentor: Matthew Nock
Research Institution: Harvard University
Co-Authors: Franchesca Castro-Ramirez, Harvard University; Jordyn Ricard, Harvard University; Daniel D.L. Coppersmith, Harvard University; Matthew Nock, PhD, Harvard University

SS

Giraud , Maria 5:30, Breakout Room 31

Evaluation of Effectiveness of HIV CAR PGT 128 scFv with Switch Receptors PD1 and dnTGF-beta

Research Mentor: James Riley

Research Institution: University of Pennsylvania

Co-Authors: James L. Riley, University of Pennsylvania; Sriram Srivatsa, University of Pennsylvania

AB

Gonzalez Dumeng, Christian 5:30, Breakout Room 27

Investigation of hOGG1's Base Flipping Activity in a Nucleosome Core Particle

Research Mentor: Sarah Delaney

Research Institution: Brown University

Co-Authors: Sarah Delaney, Brown University; Selahaddin Gumus, Brown University

BB

Gonzalez-Cardona, Adriana 5:40, Breakout Room 27

Deciphering the Disrupted Enteric Nervous System in a RET Deficient Mouse Model of Hirschsprung Disease

Research Mentor: Sumantra Chatterjee

Research Institution: New York University

Co-Authors: Sumantra Chatterjee, New York University; Aravinda Chakravarti, New York University

BB

Gonzalez, Crystal 5:50, Breakout Room 27

Multi-ancestry genome-wide study implicates novel genes involved in venous thromboembolism.

Research Mentor: Wendy Hernandez

Research Institution: University of Chicago

Co-Author: Wendy Hernandez, University of Chicago

BB

Gonzalez, Felix 4:40, Breakout Room 28

Identifying Cell-Type Specific Circuits of Genetically-Defined Ventral Tegmental Area Neurons

Research Mentor: David Root

Research Institution: University of Colorado Boulder

Co-Authors: Emily Prevost, University of Colorado Boulder; Alysabeth Phillips, University of Colorado Boulder; Kristoffer Lauridsen, University of Colorado Boulder; Dillon McGovern, University of Colorado Boulder

BB

Gough, Rhys 4:40, Breakout Room 30

Association of Default Mode Network Hyperconnectivity with Comorbid Depression and Cardiometabolic Disease in Males

Research Mentor: Aleksandr Talishinsky

Research Institution: Weill Cornell Medical College

Co-Authors: Aleksandr Talishinsky, Weill Cornell Medical College; Conor Liston, Weill Cornell Medical College

AB

Groso, Christine 4:50, Breakout Room 28

Using Labeling Immune Partnership By Sortagging Intercellular Contacts (LIPSTIC) To Study B Cell Receptor Affinity Maturation

Research Mentor: Sandra Nakandakari

Research Institution: Weill Cornell Medical College

Co-Authors: Sandra Nakandakari, Weill Cornell Medical College; Gabriel Victora, Weill Cornell Medical College

BB

Groysman, Leya 5:10, Breakout Room 26

Evaluating the Effects of Chemotherapy on p53 Targets and Cytokines in Breast and Colorectal Cancer

Research Mentor: Wafik El-Deiry

Research Institution: Brown University

Co-Authors: Dr. Wafik El-Deiry, Brown University; Lindsey Carlsen, Brown University

BB

Harris, Nicholi 6:30, Breakout Room 22

Magnifying the health disparity: A Covid-19 case study.

Research Mentor: Sarah Hernandez

Research Institution: Xavier University of Louisiana

Co-Author: Sarah Hernandez, Xavier University of Louisiana

SS

Hartman, Rhiannon 5:20, Breakout Room 23

Folklore to Fear-mongering: An Evolution of the Changeling from Child to Misbehaving Female Figure

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Dr. Natalie Strobach, Johns Hopkins University

HU

Hayes, Nya 6:00, Breakout Room 23

Fluidity of Gender in Antiquity: Investigating Stories of Transformation in Mythology

Research Mentor: Marie-Claire Beaulieu

Research Institution: Tufts University

Co-Authors: Zachary Fletcher, Tufts University; Marie-Claire Beaulieu, Tufts University

HU

Hinton, Moses 6:00, Breakout Room 29

The Prevent Anal Cancer (PAC) Palpation Study: Determining The Accuracy of Self and Partner Anal Exams for Detecting Anal Abnormalities

Research Mentor: John Schneider

Research Institution: University of Chicago

Co-Authors: Dr. John Schneider, University of Chicago; Dr. Anu Hazra, University of Chicago

AB

Holness, Shevaughn 6:00, Breakout Room 27

Genetic Heterogeneity in Endometriosis among Self-reported and Hospital-recorded Characteristics

Research Mentor: Andrew Dahl

Research Institution: University of Chicago

Co-Author: Andrew Dahl, University of Chicago

BB

Hu, Bella 6:30, Breakout Room 24

Investigating Sources of Inaccuracy in Consumer Wearables used for Health Research

Research Mentor: Temiloluwa Prioleau

Research Institution: Dartmouth College

Co-Authors: Abbey Kampel, Dartmouth College; Temiloluwa Prioleau, Dartmouth College

AB

Hung, Christina 5:00, Breakout Room 28

Full Body Coordination in Mice During Tactile Exploration

Research Mentor: Jason Ritt

Research Institution: Brown University

Co-Author: Jason Ritt, Brown University

BB

Isaacs, Nicole 5:20, Breakout Room 25

An Examination of the Metabolic Effects of Glucocorticoid-Induced Treatment in Rodents.

Research Mentor: Eduard Reznik

Research Institution: Columbia University

Co-Author: Eduard Reznik, Columbia University

BB

Jacobs, Amunet 6:30, Breakout Room 30

Transcriptomic Analysis Of The Active Nuclease Transposon Derived Gene, Pgbd5, And Its Cofactors Within Neurodevelopment

Research Mentor: Luz Jubierre

Research Institution: Weill Cornell Medical College

Co-Authors: Luz Jubierre, Cornell University; Alex Kentsis, Cornell University

AB

Jauregui, Natalia 5:10, Breakout Room 28

How discrimination and generalization properties evolve throughout learning in recurrent neural networks representing sensory processes.

Research Mentor: Ramon Nogueira

Research Institution: Columbia University

Co-Author: Ramon Nogueira Manas, Columbia University

BB

Jerome, Jean 5:20, Breakout Room 28

Understanding of the Gating Mechanism for Cl⁻ Transport in a CLC Cl⁻/H⁺ Exchanger Using Molecular Dynamics Simulations

Research Mentor: Alessio Accardi

Research Institution: Weill Cornell Graduate School

Co-Authors: Alessio Accardi, Weill Cornell Graduate School; Sangyun Lee, Weill Cornell Graduate School

BB

Kampel, Abbey 6:20, Breakout Room 24

Investigating Sources of Error in Consumer Wearables used for Health Research

Research Mentor: Temiloluwa Prioleau

Research Institution: Dartmouth College

Co-Authors: Bella Hu, Dartmouth College; Temiloluwa Prioleau, Dartmouth College

AB

Karp, Chelsea 5:30, Breakout Room 25

Assessing the Expression of Twist in the Drosophila melanogaster Male Accessory Gland to Determine Positional Identity of Main Cell Subpopulations

Research Mentor: Mariana Wolfner

Research Institution: Cornell University

Co-Authors: Mariana Wolfner, Cornell University; Nora Brown, Cornell University; Jonathan Thomalla, Cornell University

BB

Khan, Janen 5:00, Breakout Room 29

Evaluating The Relationship Between Beta Cell Proliferation And Unfolded Protein Response Using Single-Cell RNA-Seq Data

Research Mentor: Rohit Sharma

Research Institution: Weill Cornell Medical College

Co-Authors: Laura Alonso, Weill Cornell Medical College; Rohit Sharma, Weill Cornell Medical College

AB

Kirkpatrick, Sharla 4:50, Breakout Room 22

Reasons and Behavior Contributing to Vaccine Hesitancy Within the Black Community

Research Mentor: Dennis Tenen

Research Institution: Columbia University

Co-Author: Dennis Tenen, Columbia University

HU

Kura, Jayachandra 4:30, Breakout Room 31

Transcriptional Analysis of Cellular Stemness in Acute Myeloid Leukemia

Research Mentor: Sohini Chakraborty

Research Institution: New York University

Co-Authors: Dr. Sohini Chakraborty, New York University; Dr. Christopher Park, New York University

AB

Landau, Judith 6:50, Breakout Room 24

The Influence of Mechanical Feedback on Chemical Oscillations in Xenopus Oocytes

Research Mentor: Michael Murrell

Research Institution: Yale University

Co-Authors: Michael Murrell, Yale University; Sorosh Amiri, Yale University; Sheng Chen, Yale University

AB

Lawrence, Channon 5:30, Breakout Room 28

Structural and Functional Characterization of Septu Defense Systems

Research Mentor: Joshua Chappie

Research Institution: Cornell University

Co-Authors: Joshua Chappie, Cornell University; Anthony Bui, Cornell University

BB

Layne, Elise 4:40, Breakout Room 29

Characterization of Epidermal Growth Factor Receptor Variants in Lung Cancer

Research Mentor: Tikvah Hayes

Research Institution: Harvard University Div. of Medical Sciences

Co-Authors: Tikvah Hayes, PhD, Harvard University; Matthew Meyerson, MD, PhD, Harvard University

AB

Le, Han 6:20, Breakout Room 30

The molecular mechanism of early synaptic loss in Alzheimer's disease

Research Mentor: Hisashi Umemori

Research Institution: Harvard University Div. of Medical Sciences

Co-Authors: Hishashi Umemori, PhD, Harvard University Div. of Medical Sciences; Sivapratha Nagappan Chettiar, PhD, Harvard University Div. of Medical Sciences

AB

Lone, Talha 5:20, Breakout Room 26

Investigating mechanisms behind axonal mistargeting in callosal projection neurons upon Ctip1 deletion: Multi-omics data integration, interpretation, and implications in autism spectrum disorder

Research Mentor: Jeffrey Macklis

Research Institution: Harvard University

Co-Authors: Dustin Tillman, Harvard University; John Froberg, PhD, Harvard University; Priya Veeraraghavan, Harvard University; Jeffrey Macklis, MD-DSc, Harvard University

BB

López, Nicole 5:30, Breakout Room 26

Evolution of floral traits within the Phlox genus in relation to pollinator identity

Research Mentor: Robin Hopkins

Research Institution: Harvard University

Co-Authors: Robin Hopkins, PhD, Harvard University; Bridget Bickner, Harvard University

BB

Louis, Cearra 6:40, Breakout Room 22

Implicit Bias in Healthcare and its Contributions to Structural Racism

Research Mentor: Sarah Hernandez

Research Institution: Xavier University of Louisiana

Co-Author: Sarah Hernandez, Xavier University of Louisiana

SS

Manalac, Christian 6:50, Breakout Room 23

Does Gender Matter for Political Leadership? The Case of U.S. Mayors- Update of Mayoral Election Data from 2010-2021

Research Mentor: Fernando Ferreira

Research Institution: University of Pennsylvania

Co-Authors: Dr. Fernando Ferreira, University of Pennsylvania; Fan Xia, University of Pennsylvania

SS

Mendoza, Miguel 4:50, Breakout Room 29

Developmental Foundation of Human Naive Pluripotent Stem Cells

Research Mentor: Elias Zambidis

Research Institution: Johns Hopkins University

Co-Author: Elias Zambidis, Johns Hopkins University

AB

Milk-Batista, Diana 5:10, Breakout Room 31

A Cross-Sectional Study of Hair Cortisol Concentration and Cardiometabolic Risk Among 12 Year-Olds in HOME Study

Research Mentor: Joseph Braun

Research Institution: Brown University

Co-Authors: Joseph M. Braun, Brown University; Marisa A. Patti, Brown University

AB

Miller, Arielle 5:30, Breakout Room 23

Sex, Spies, and Cinema: The Male Gaze and Tropes of Female Objectification in Salt

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Dr. Natalie Strobach, Johns Hopkins University

HU

Miller, Jordan 5:10, Breakout Room 30

Growth of Asymptomatic and Cystitis Escherichia coli isolates in Various Carbon Sources

Research Mentor: Grace Morales

Research Institution: Vanderbilt University

Co-Authors: Jonathon Schmitz, Vanderbilt University; Grace Morales, Vanderbilt University

AB

Mohamed, Hosam 5:10, Breakout Room 24

A Systematic Review on Drug-interactions and Their Outcomes on a Population Level

Research Mentor: Andrew Zullo

Research Institution: Brown University

Co-Author: Andrew Zullo, Brown University

AB

Molina Diaz, Brian 6:40, Breakout Room 24

Peptide-Polyelectrolyte Complex: A Simulation Study of Conformational Stability

Research Mentor: Paul Van Tassel

Research Institution: Yale University

Co-Author: Dr. Paul Van Tassel, Yale University

AB

Morales Alvarado, Sofia 5:40, Breakout Room 26

Determining Duffy Antigen/Chemokine Receptor's (DARC) Association With Immune Signaling in Triple-Negative Breast Cancer (TNBC) Subtypes Using RNAseq Data from Primary Breast Tumors and Patient-Derived Organoids

Research Mentor: Melissa Davis

Research Institution: Weill Cornell Graduate School

Co-Authors: Melissa Davis, Weill Cornell Graduate School; Andrea Sboner, Weill Cornell Graduate School; Princesca Dorsaint, Weill Cornell Graduate School

BB

Nalamalapu, Rithvik 5:40, Breakout Room 25

Designing Versatile Genetic Systems to Engineer Diverse Microbes

Research Mentor: Farren Isaacs

Research Institution: Yale University

Co-Authors: Farren Isaacs, Yale University; Jaymin Patel, Yale University; Peter Ciaccia, Yale University

BB

Nguyen, Henry 4:50, Breakout Room 30

Characterization of Cerebral Perivascular Space with Advanced MRI: A Lifespan Study

Research Mentor: Yulin Ge

Research Institution: New York University

Co-Authors: Chenyang Li, New York University; Jingyun Chen, New York University; Henry Rusinek, New York University; Thomas Wisniewski, New York University

AB

Nunn, Katherine 6:00, Breakout Room 30

Seizures on a Cycle: How Homeostatic Plasticity and Alcohol-Induced Seizures Provide a Map for Understanding Cyclical Seizures

Research Mentor: Naoum Issa

Research Institution: University of Chicago

Co-Author: Dr. Naoum Issa, University of Chicago

AB

Nwagugo, Favour 5:50, Breakout Room 26

Dioxin Exposure Disrupts Development of the Peripheral Nervous System

Research Mentor: Jessica Plavicki

Research Institution: Brown University

Co-Authors: Layra Cintrón-Rivera, Brown University; Ratna Patel, Brown University; Nathan Martin, Brown University; Jessica Plavicki, Brown University

BB

Onteeru, Manu 6:00, Breakout Room 25

Fungal Colonization and the Gut Microbiome

Research Mentor: Peter Belenky

Research Institution: Brown University

Co-Authors: Peter Belenky, Brown University; Swathi Penumutchu, Brown University

BB

Ortiz Gonzalez, Paola 5:00, Breakout Room 31

Upregulating E-Cadherin to Restore Epithelial Intestinal Barrier as a Therapy for Ulcerative Colitis

Research Mentor: Chun-Jun Guo

Research Institution: Weill Cornell Graduate School

Co-Author: Chun-Jun Guo, Weill Cornell Graduate School

AB

Oshipitan, Clinton 5:20, Breakout Room 22

The Gatekeeping of Psychedelics: How Colonization and the War on Drugs has restricted the Use of Psychedelic Healing Practices in Indigenous and Black communities

Research Mentor: Grant Jones

Research Institution: Harvard University

Co-Authors: Grant Jones, Harvard University; Franchesca Castro-Ramirez, Harvard University; Matthew Nock, PhD, Harvard University

SS

Ospina, Erin 4:50, Breakout Room 31

Exploration of Maturation Marker Expression in Relation to the Unfolded Protein Response in Primate Pancreatic Islet Cells

Research Mentor: Laura Alonso

Research Institution: Weill Cornell Medical College

Co-Authors: Rohit Sharma, Weill Cornell Medical College; Laura Alonso, Weill Cornell Medical College

AB

Osuoha, Ezinwa 4:30, Breakout Room 22

Lifetime SES and Smoking Cessation Among Older Smokers In The U.S.

Research Mentor: Jasjit Ahluwalia

Research Institution: Brown University

Co-Authors: Jaqueline Contrera Avila, Brown University; Sangah Lee, Brown University; Alexander Sokolovsky, Brown University; Dale Maglalang, Brown University

SS

Otchere, Amma 5:20, Breakout Room 30

Impact of Chronic Early Life Stress on Development of Neuropsychiatric Diseases in Adulthood

Research Mentor: Kristen Pleil

Research Institution: Weill Cornell Medical College

Co-Authors: Kristen Pleil, Weill Cornell Medical College; Sydney Rowson, Weill Cornell Medical College

AB

Padilla Rolón, Darwing 6:00, Breakout Room 26
Epigenetic changes in lymphoid lineage cells in post-COVID-19

Research Mentor: Steven Josefowicz
Research Institution: Weill Cornell Graduate School
Co-Authors: Steven Zvi Josefowicz, Weill Cornell Graduate School; Jin Gyu Cheong, Weill Cornell Graduate School
BB

Pante, Desiree 6:10, Breakout Room 27
Comparative mass spectrometry-based proteomics reveals proteins in blood plasma associated with age-related phenotypes and social reproductive behavior in Jays

Research Mentor: Scott V. Edwards
Research Institution: Harvard University
Co-Authors: Flavia Termignoni Garcia, PhD, Harvard University; Scott V. Edwards, PhD, Harvard University
BB

Phan, Marcus 4:30, Breakout Room 30
Alzheimer's Disease-Related Alterations in Anxiogenic Circuits of Ventral Ca1

Research Mentor: Arjun Masurkar
Research Institution: New York University
Co-Authors: Arjun Masurkar, New York University; Isabel Reyes, New York University
AB

Phillips, Vivianna 6:10, Breakout Room 26
What Lies Beneath

Research Mentor: Mark Burke
Research Institution: Howard University
Co-Author: Dr. Mark Burke, Howard University
BB

Pliego-Alcantara, Luz del Carmen 6:20, Breakout Room 27

PANK4 regulates Coenzyme A production
Research Mentor: Christian Dibble
Research Institution: Harvard University Div. of Medical Sciences
Co-Authors: Christian Dibble, PhD, Harvard University Div. of Medical Sciences; Samuel Barritt, Harvard University Div. of Medical Sciences; Sarah DuBois-Coyne, Harvard University Div. of Medical Sciences
BB

Powell, Shalya 4:40, Breakout Room 24
Mother of Monsters: Black Feminine Monstrosity and the Spell of the Human

Research Mentor: Matthew Tanico
Research Institution: Yale University
Co-Author: Matthew Tanico, Yale University
HU

Prosper, Shaniah 6:10, Breakout Room 30
Sex Differences in Steroid Receptor Distribution in the Mouse Arcuate Nucleus in the Hypothalamus

Research Mentor: Teresa Milner
Research Institution: Weill Cornell Graduate School
Co-Author: Teresa Milner, Weill Cornell Medical College
AB

Quezada, Danielle 5:00, Breakout Room 22
Community and Care: First-gen Latino immigrants healthcare experiences

Research Mentor: Yao Lu
Research Institution: Columbia University
Co-Author: Yao Lu, Columbia University
SS

Ramirez, Desiree 6:30, Breakout Room 27
Simulating Hippocampal Activity in a Neural Network Model of Memory

Research Mentor: Ching Fang
Research Institution: Columbia University
Co-Authors: Robert Yang, Columbia University; Ching Fang, Columbia University
BB

Ramos-Rolón, Astrid 5:40, Breakout Room 30
Menstrual cycle phase effects on oral THC response

Research Mentor: Harriet de Wit
Research Institution: University of Chicago
Co-Authors: Elisa Pabon, University of Chicago; Harriet de Wit, University of Chicago
AB

Randall, Kipchoge 6:20, Breakout Room 26
Utilizing Unique HERV Expression to Identify Markers of Latently HIV Infected Cells

Research Mentor: Douglas Nixon
Research Institution: Weill Cornell Medical College
Co-Authors: Jez Marston, Weill Cornell Medical College; Douglas Nixon, Weill Cornell Medical College
BB

Rasool, Burha 6:10, Breakout Room 31

Investigating the Role of the Gut Microbiome in Neutrophil Differentiation

Research Mentor: Melody Zeng

Research Institution: Weill Cornell Graduate School

Co-Author: Melody Zeng, Weill Cornell Graduate School

AB

Reaves, Alexis 4:50, Breakout Room 23

The Fluidity of Genderfluid

Research Mentor: Khaled Hamdy

Research Institution: Columbia University

Co-Author: Silvia Bellezza, Columbia University

SS

Ridgell, Marc 6:20, Breakout Room 23

An Examination of Black Queer Youth's Resistance Against Homonormativity in Boystown

Research Mentor: Omar McRoberts

Research Institution: University of Chicago

Co-Authors: Omar McRoberts, University of Chicago;

Nathan Riemer, University of Chicago

SS

Rivera Acevedo, Noemí 4:40, Breakout Room 22

Conceptualizing and Measuring Food Insecurity in Puerto Rico

Research Mentor: Andrew Schrank

Research Institution: Brown University

Co-Authors: Andrew Schrank, Brown University; Elizabeth Fussell, Brown University

SS

Rivera, Arturo 5:40, Breakout Room 28

Controllable Stressors Decrease Oxycodone Seeking in Incubation of Craving Model

Research Mentor: Micheal Saddoris

Research Institution: University of Colorado Boulder

Co-Authors: Michael Saddoris, University of Colorado

Boulder; Kyle Brown, University of Colorado Boulder; Kayla Siletti, University of Colorado Boulder

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Rivera, Hector 6:20, Breakout Room 29

Elucidating the Mechanism Through Which Th17 Cells Augment Anti-Tumor Responses in Tumor-Vaccinated Mice

Research Mentor: Yina H

Research Institution: Dartmouth College

Co-Authors: Yina Huang, Dartmouth College; Hannah Lust, Dartmouth College

AB

Rodríguez Bonilla, Laura 6:10, Breakout Room 25

Neuraminidase Glycosylation: A Novel Approach For Influenza Vaccine Development

Research Mentor: Aaron Schmidt

Research Institution: Harvard University

Co-Authors: Catherine Jacob-Dolan, Harvard University;

Aaron Schmidt, PhD, Harvard University

BB

Rogers, Savannah 5:30, Breakout Room 24

Comparative Analysis of the Small Animal Vaccine Value Chain in Kenya, Uganda, and Rwanda

Research Mentor: Hellen Amuguni

Research Institution: Tufts University

Co-Author: Hellen Amuguni, Tufts University

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Rolon, Alisha 5:40, Breakout Room 29

Skeletal Muscle Mitochondrial Morphology in Pulmonary Hypertension

Research Mentor: Gaurav Choudhary

Research Institution: Brown University

Co-Authors: Gaurav Choudhary, Brown University; Peng Zhang, Brown University

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Romero, Gabriel 6:30, Breakout Room 26

KSHV LANA Oligomerization as a Potential Regulatory Mechanism for LANA Expression and Lytic Reactivation

Research Mentor: Kenneth Kaye

Research Institution: Harvard University Div. of Medical Sciences

Co-Author: Kenneth M. Kaye, PhD, Harvard University Div. of Medical Sciences

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Rondon, Hannah 5:00, Breakout Room 30

Effects Of Chronic Stress On mpfc Neurons Spine Elimination

Research Mentor: Conor Liston

Research Institution: Weill Cornell Medical College

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Rosa Vázquez, Alexandra ... 5:50, Breakout Room 29

Targeting Glutamine Dependencies in Pancreatic Cancer

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AB

Rosario, Alejandra 6:00, Breakout Room 31

Introducing Inhibitors to Primary Glioblastoma Tumor Cultures to Characterize and Target Aggressive Cell Subsets

Research Mentor: Jonathan Irish

Research Institution: Vanderbilt University

Co-Authors: Amanda S. C. Kouaho, Vanderbilt University; Stephanie Medina, Vanderbilt University; Madeline J. Hayes, Vanderbilt University; Jonathan M. Irish, Vanderbilt University

AB

Rosner, Grace 5:50, Breakout Room 28

How does Musashi-2 regulate its mRNA Targets?

Research Mentor: Michael Kharas

Research Institution: Weill Cornell Graduate School

Co-Authors: Karen Chu, Weill Cornell Graduate School; Michael Kharad, Weill Cornell Graduate School

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Saca, Christopher 5:40, Breakout Room 23

“I Am a Survivor:” Everyday Resilience through the Forced Creation of a Black Male Street Identity in The Other Wes Moore

Research Mentor: Natalie Strobach

Research Institution: Johns Hopkins University

Co-Author: Natalie Strobach, Johns Hopkins University

HU

Sakuma, Evan 4:50, Breakout Room 24

Deafening Silence of a Model Minority: A Reimagining of Babbling as Resistance in Asian/American Queer Performance

Research Mentor: Matthew Tanico

Research Institution: Yale University

Co-Author: Matthew Tanico, Yale University

HU

Sanders, Amaya 6:10, Breakout Room 23

Sex, Gender, and COVID-19: A Scoping Review

Research Mentor: Janetrix Hellen Amuguni

Research Institution: Tufts University

Co-Authors: Natalie Miller, Tufts University; Meghan Stanley, Tufts University; Janetrix Hellen Amuguni, Tufts University

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Santiago, Harrison 6:00, Breakout Room 28

Automated Sleep Staging in Rats Using a Linear Discriminant on Local Field Potential Recordings

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Research Institution: University of Chicago

Co-Author: Jai Yu, University of Chicago

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Seaver, Sarah 6:30, Breakout Room 23

Between the Borderlands of Sainthood: Embracing Queer Gendered Liminality in the Vitae of Christian Female Saints

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Research Institution: University of Chicago

Co-Author: Erin Walsh, University of Chicago

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Seda Chabrier, Cristina 4:30, Breakout Room 24

Gender as a Political Strategy in Puerto Rico: Conservative Religious Groups, Reactive Politicization, and the Electoral Cycles of 2015-2016 and 2019-2020

Research Mentor: Pilar Gonalons-Pons

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Co-Author: Pilar Gonalons-Pons, University of Pennsylvania

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Sherman, Marina Sherman . 6:10, Breakout Room 29*Coenzyme A Metabolic Implications in Regulating Ferroptosis in Pancreatic Ductal Adenocarcinoma***Research Mentor:** Daniel Ross**Research Institution:** Columbia University**Co-Authors:** Daniel Ross, Columbia University; Kenneth Olive, Columbia University

AB

Simon-Ponte, Damali 5:50, Breakout Room 31*Interrogation of Abelson Interactor-1-Driven Mechanisms of Malignant Transformation in the Hematopoietic System***Research Mentor:** Patrycja Dubielecka-Szczerba**Research Institution:** Brown University**Co-Authors:** Patrycja Dubielecka-Szczerba, Brown University; Anna Chorzalska, Brown University; John Morgan, Brown University

AB

Slaughter, Mary 6:20, Breakout Room 25*Genomics of emerging *Enterobacter hormaechei* to reveal possible virulence mechanisms***Research Mentor:** Andrew Perault**Research Institution:** New York University**Co-Authors:** Andrew Perault, New York University; Victor Torres, New York University

BB

Smith, Makaleh 6:40, Breakout Room 27*The Evolution of Hygroscopic Movement in a Clade of Dimorphic Ferns***Research Mentor:** Jacob Suissa**Research Institution:** Harvard University**Co-Authors:** Jacob Suissa, Harvard University; William Friedman, PhD, Harvard University

BB

Soto, Victoria 4:40, Breakout Room 23*Gendering Criminality: Infanticide in Early Twentieth-Century Puerto Rico***Research Mentor:** Jennifer Lambe**Research Institution:** Brown University**Co-Author:** Jennifer Lambe, Brown University

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Swisher, Valerie 6:10, Breakout Room 22*Biased Pain Perception: Do Non-Autistic People Underestimate Pain in Autistic People?***Research Mentor:** Vikram Jaswal**Research Institution:** University of Virginia**Co-Author:** Vikram Jaswal, PhD, University of Virginia

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Tariq, Safah 6:40, Breakout Room 26*Investigation of the Importance of mRNA Slicing by Argonaute 2 in Neurons***Research Mentor:** Benjamin Kleaveland**Research Institution:** Weill Cornell Medical College**Co-Author:** Benjamin Kleaveland, Weill Cornell Medical College

BB

Thomas, Carolyn 6:40, Breakout Room 23*Exploring Relationships Between Democratic Backsliding and Gender Equality***Research Mentor:** Adam Chilton**Research Institution:** University of Chicago**Co-Author:** Adam Chilton, University of Chicago

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Tucker, Aja 6:10, Breakout Room 28*Elucidating the Signaling Pathways Involved in JP4-039-Mediated Improvement in Coronary Angiogenesis***Research Mentor:** Ruhul Abid**Research Institution:** Brown University**Co-Authors:** Rayane Brinck Teixeira, Brown University; Catherine Karbasiafshar, Brown University; Sidharth Raj, Brown University; Mohamed Sabra, Brown University

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Turner, Lexi 6:50, Breakout Room 22*Lungs on fire: How Environmental Racism Impacts the Respiratory Health of African Americans.***Research Mentor:** Sarah Hernandez**Research Institution:** Xavier University of Louisiana**Co-Author:** Sarah Hernandez, Xavier University of Louisiana

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Ullah, Fatimah 5:50, Breakout Room 23

Is That Izzat?: How the Past Can Predict the Future for Honor Killings in Pakistan

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Uribe, Isabel 6:00, Breakout Room 24

3D Polymer Printing to Repair Damaged Uterosacral Ligaments in Pelvic Organ Prolapse

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Co-Authors: Virginia Ferguson, University of Colorado Boulder; Lea Savard, University of Colorado Boulder
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Varughese, Alice 6:50, Breakout Room 27

Investigating Expression of Manganese Transport Genes in Inflammatory Bowel Disease

Research Mentor: Thomas Bartnikas

Research Institution: Brown University

Co-Author: Thomas Bartnikas, Brown University
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Velez, Sebastian 6:30, Breakout Room 25

The Role of RCAN1 in Down Syndrome Hippocampus via RNA-Seq Analysis in Dp16 Mice

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Co-Authors: Helen Wong, University of Colorado Boulder; Mina Griffioen, University of Colorado Boulder; Josien Levenga, University of Colorado Boulder; Carolyn Ardizzone, University of Colorado Boulder
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Vieux-Gresham, Nathalie ... 6:20, Breakout Room 28

Transcriptional and Epigenetic Characteristics of Natural Killer Cells in post-SARS-CoV2 Infection

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Villalpando, Emily 6:40, Breakout Room 25

Analysis of Transporters and Prodrug-Synthesizing Enzymes that Produce Bacterial Toxins

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Research Institution: Harvard University

Co-Authors: Rachele Gaudet, PhD, Harvard University; Jose Velilla, Harvard University
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Villegas, Anthony 6:40, Breakout Room 30

Underrepresented Minority Groups Differences with Respect to Rates and Outcomes of Decompressive Craniectomy After Traumatic Brain Injury: A Systematic Review

Research Mentor: Christos Lazaridis

Research Institution: University of Chicago

Co-Author: Christos Lazaridis, University of Chicago
AB

Vitkauskas, Matas 6:30, Breakout Room 28

“Regulating the pain: Predicting cell-type specific enhancers of pain using ATAC-seq”

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Voyer, Jewel 6:50, Breakout Room 26

Determining Glutathione’s Role in Protecting Epstein-Barr Virus Infected Cells from Ferroptosis

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Vue, Dallas 6:50, Breakout Room 25

Zika Virus Infection And Centrosome

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Wang, Zixian 5:50, Breakout Room 30

Relationship of eye saccade pattern and scene recognition in primate

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AB

Webb, Derrick 5:30, Breakout Room 22

Past, Present, & Future: The Historical Continuity of Medical Racism & COVID-19 Vaccination within the Alabama Black Community

Research Mentor: Alexandre White

Research Institution: Johns Hopkins University

Co-Authors: Dr. Alexandre White, Johns Hopkins University; Dr. Natalie Strobach, Johns Hopkins University

HU

Williams, Charlye 5:40, Breakout Room 22

Our Forgotten First Mothers: The Historical Demonization of African American Midwifery and its Contribution to the Decline in Black Maternal Healthcare

Research Mentor: Elizabeth O'Brien

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Williams, Melvin 6:40, Breakout Room 28

Bioinformatic Analysis Of RNA-seq Data To Elucidate Downstream Effectors of PRDM16 In Adipocyte Tissue

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Wilmot, Kayla 6:20, Breakout Room 22

"Lean on Me": Exploring Relationships Between Academic Self-Worth, Sense of Belonging, and Mental Health Supports Among Black Immigrant Students

Research Mentor: Seanna Leath

Research Institution: University of Virginia

Co-Author: Seanna Leath, University of Virginia

SS

Woolridge, Morgan 5:20, Breakout Room 31

Analysis of Cell Intrinsic and Extrinsic Factors that Control CD8 Resident Memory T Cell Differentiation

Research Mentor: Lalit Beura

Research Institution: Brown University

Co-Authors: Lalit Beura, Brown University; Mohammad Hasan, Brown University

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The Leadership Alliance Executive Office Staff



Medeva Ghee, PhD

Executive Director

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 PhD training and to consider careers in the professoriate and broader research workforce. Dr. Ghee previously worked with the Clinton HIV/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/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/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 PhD 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.



Taiese Bingham-Hickman, MS, MBA, PhD

Associate Director

After participating in the SR-EIP at Harvard Medical School, she earned both M.S. and PhD degrees from New York University School of Medicine and completed her M.B.A at Northeastern University. Dr. Bingham is a member of the American Society of Pharmacology and Experimental Therapeutics and a published author in her field.

Informed by an impressive multi-sectoral professional trajectory, Dr. Bingham-Hickman brings a wealth of experience to this position. In the past three years, she served as the Assistant Director of Biomedical Informatics Research and Operations at Brown University, where she supported the operational functions of the Brown Center for Biomedical Informatics (BCBI) with major statewide initiatives. In this capacity, she also served as the technical liaison for assigned projects with BCBI collaborators across Brown and its affiliated hospitals, as well as regional/national/international partners. Prior to coming to Brown, Dr. Bingham-Hickman worked in the private industry at Beacon Health Options as the Vice President of Data Analytics where she oversaw Beacon's Analytics Innovation Center that provided thought leadership and analytic capabilities to ensure optimal behavioral health solutions for regional and specialty health plans; employers and labor organizations; and federal, state and local governments. She managed a team that leveraged advanced analytic concepts to drive actionable, insight driven and outcome-oriented decision making to deliver the best in class service for its members, providers and clients. Dr. Bingham-Hickman also worked as the Manager of Analytics for Beacon's Pharmacy Intervention Program and was key in the development of evidence-based algorithms to help identify medication related problems specific to behavioral health conditions.



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.



Samantha Andersen

Coordinator of Undergraduate Programs

Samantha Andersen is the Undergraduate Coordinator for the Leadership Alliance. In this capacity, she coordinates the combined application process for the undergraduate summer research sites and supervises the Alliance's Summer Research Early Identification Program (SR-EIP) at Brown University. Ms. Andersen cultivated a passion for connecting diverse populations of students with research opportunities when she began her career in higher education at the University of California, Santa Barbara (UCSB). At UCSB Ms. Andersen coordinated the Internships in Nanosystems Science, Engineering and Technology (INSET) program which gave community college students from across California the opportunity to engage in research at UCSB labs under the guidance and supervision of university mentors during an 8-week summer research program. Holding a master's degree in Early Childhood and Elementary Education from New York University, she has also coordinated after-school programs in science, technology, engineering, art and math at UCSB and at Teachers College, Columbia University. These programs bring university students and resources to public elementary, middle, and high schools in Santa Barbara and New York City, and they bring K-12 students to the university. The after-school programs are designed to expose young students to university life and opportunities early in their educational career and to give university students and faculty the chance to engage with local communities and practice communicating their research and work with varied populations in a setting that is very different from the lab. Since moving to Rhode Island in 2012 Ms. Andersen has worked with United Way of Rhode Island on initiatives focusing on out-of-school time and expanded learning opportunities for Rhode Island youth and with the Community College of Rhode Island and the Rhode Island Department of Education to establish a youth apprenticeship program which allows students to begin a career while they are still in high school.

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SYMPOSIUM 2021

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