



SCHEDULE

TUESDAY, APRIL 26, 2022

Welcome + Introduction | 2:00 - 2:20 PM ET

Lindsay Currie, Executive Officer, Council on Undergraduate Research

Yasmine Arrington, ScholarCHIPS, Inc. Founder & Executive Director and Millennial Minds Podcast Founder, Producer & Host

Group A Student Presentations | 2:20 - 4:00 PM ET



Yasmine (Yaz-meen) will share with you/us how undergraduate research can be used to solve our most challenging social, health, environment and technological challenges, and how the skills you are acquiring now will help to prepare you for internships, your career field and amazing opportunities ahead.

Yasmine “YazzieSpeaks” Arrington was born and raised in Washington, DC and attended DC Public Schools. She is a 2015 graduate from Elon University with a Bachelor of Arts in Strategic Communications and History. Yasmine earned her Master of Divinity degree from the Howard University School of Divinity in May 2018. Yasmine graduated from Benjamin Banneker Academic High School in Washington, DC in 2011. Yasmine is the author of Daily Reflections for Social Entrepreneurs Journal.

In 2010, while a junior in high school, Yasmine founded the non-profit ScholarCHIPS (www.scholarchipsfund.org), an organization that provides college scholarships, mentoring and a peer support network to children of incarcerated parents, inspiring them to complete their college education. To date, ScholarCHIPS has awarded over \$300,000 in college scholarships to 77 scholars, with 32 graduates to date. Yasmine is also the Founder of Incaricare, LLC, an online platform that allows people to purchase care packages for incarcerated loved ones, returning citizens and those on home confinement.

Yasmine has been featured in TeenVogue, Essence, Black Enterprise, Forbes Magazine, The Washington Post, and the Baltimore Times, and on ABC7 News WJLA and NBC4 for her community work with ScholarCHIPS. Yasmine is a recipient of several awards including the Washington Business Journal Top 40 Under 40 (2021), the Linowes Leadership Award from the Greater Washington Community Foundation, the Peace First Prize, the DC Social Innovation Prize, Angel Among Us Award by the Negro Council of Women, the Samuel Huntington Public Service Award, the Samuel Halperin Public Service Award, Radio One WKYS Top 30 Under 30, and others.

Yasmine loves interacting with ScholarCHIPS' scholars, alumni and their families and serving as a near-peer mentor to the organization's scholars and as an advocate for children of incarcerated parents, incarcerated individuals, and returning citizens. She looks forward to continuing to work in partnership with ScholarCHIPS' Board of Directors and staff to expand the capacity and sustainability of ScholarCHIPS to ensure that children with incarcerated parents have the holistic support they need to graduate from college and be successful in life for generations to come. In doing this work, scholar-by-scholar, ScholarCHIPS is breaking down the taboo, stigma, the burden of shame and societal systemic barriers that disadvantaged youth often face in pursuing higher education, ultimately, breaking cycles of poverty and incarceration.

WEDNESDAY, APRIL 27, 2022

Group A Student Presentations | 2:00 - 3:40 PM ET

Congratulatory Remarks + Celebration | 3:45 - 4:00 PM ET



Dr. Mike Jackson, Co-Chair, Posters on the Hill Committee

** With special thanks to Dr. Carol Strong, Co-Chair, Posters on the Hill Committee*



Room	Presenter's Last Name	Division	Room	Presenter's Last Name	Division
15	Abou-Rass <i>Title: Impact of COVID-19 Pandemic on Mental Health of Syrian Refugee Youth in Metro Detroit</i>	Social Sciences	6	Jones <i>Title: Does the Pell Grant Come with a Price?</i>	Education
10	Apps; Cunningham; Haus <i>Title: Biocompatible Foam in Tumor Treatment for Improved Patient Recovery</i>	Health Sciences	8	Kannan <i>Title: Geotechnical Properties of Ashes and Soils Exposed to Wildfires</i>	Engineering
2	Barnes <i>Title: The Fragility of the American Dream</i>	Arts + Humanities	15	Kosbab; Olson <i>Title: Fertile Ground for Democracy: Bridging and Bonding Spaces in Minnesota Farmers Markets</i>	Social Sciences
11	Bookwala <i>Title: How Intergenerational Shame + Stigma can Affect the Impact of the STOP FGM ACT of 2020</i>	Health Sciences	8	Kotlarz; Hagstrom <i>Title: Early Diagnosis of Alzheimer's Disease Using Artificial Intelligence</i>	Engineering
2	Britto <i>Title: Melting Back into Society; A Photographic Documentary of Women Veterans</i>	Arts + Humanities	13	Mamidipaka <i>Title: Contribution of Visual Speech Information to Understanding Audiovisual Speech in Difficult Listening Situations</i>	Psychology
9	Brock <i>Title: High-Risk Populations Treatment Improvement for COVID-19 with Laser Diffraction Analysis of Inhaler</i>	Engineering	3	Mangadu <i>Title: Constructing a Plant Species Checklist for Caster Range, Texas and Identifying Important Species Through Species Distribution Models</i>	Environmental Science
9	Burkhalter; Crisp <i>Title: Parameterization, Geometric Modeling, + Isogeometric Isolation Analysis of Tricuspid Valve + Transcatheter Aortic Valve Replacement</i>	Engineering	11	McNeel <i>Title: Early Metabolic Hallmarks of the Eye and Brain in Alzheimer's Disease</i>	Health Sciences
14	Calabrese <i>Title: Crime and Pollution</i>	Social Sciences	13	Moss <i>Title: Can a Few Good Friends Reduce Some Negative Impacts of Juvenile Sex Offender Registration?</i>	Psychology
12	Cameron; Rebolgar <i>Title: Developing an Optical Technique to Measure Snow Grain Size with Near Infrared Reflectance</i>	Physics + Astronomy	4	Moussa <i>Title: Exploring Disease Similarities + Dissimilarities Using Structural Attributes of Genes + Proteins</i>	Biology
6	Dang <i>Title: Hesitant or Resistant: Impact of a COVID-19 Interventional Study Among Undergraduate Students' Perceptions of the Pandemic and the COVID-19 Vaccines</i>	Education	5	Nardelli <i>Title: An Improved Step in the Synthesis of Ibuprofen</i>	Chemistry
6	Davenport <i>Title: Student Learning and Science Beliefs: Persistence of Positive Attitude and Experiences</i>	Education	1	Simpson <i>Title: Ecoandrogyny: Examining Environmentalism Beyond the Gender Binary</i>	Arts + Humanities
1	DiMattia; Holyfield; Schaaf; Kaczmarek <i>Title: A composite Model of Iliad Scholia</i>	Arts + Humanities	5	Singh <i>Title: Establishing a Drug Delivery System for Cyclic Lipopeptide-4 Using a Biodegradable Chitosan-Silver Hydrogel</i>	Chemistry
12	Ferrari <i>Title: Synthetic Spectroscopy of Near-Chandrasekhar Mass Type Ia Supernovae from the Double-Degenerate Channel</i>	Physics + Astronomy	10	S. Smith <i>Title: A Qualitative Investigation of Individual, Interpersonal, and Institutional Contributions to Postpartum Work-Family Balance</i>	Health Sciences
12	Gomez-Lopez <i>Title: Studying Living Materials for Next-Generation Applications</i>	Physics + Astronomy	14	Turman <i>Title: An Analysis of International Humanitarian Law on a Scorched Earth Policy</i>	Social Sciences
4	Hawks <i>Title: Measuring Bioaccumulation of Selenium and its role in Synthesis of Proteins in False Map Turtles</i>	Biology	7	Wade <i>Title: Designing and Testing a Low-cost Arduino-based Turbidimeter</i>	Engineering
			3	Yan <i>Title: Environmental Contamination of Parasites and Their Relation to Poverty in the Southern US</i>	Biology





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2	Alston <i>Title: On Site Mastitis Testing</i>	Biology	14	Lappe <i>Title: Triggers of Jurisdiction and the International Criminal Court</i>	Social Sciences
11	Alves-Ponte; Amparo <i>Title: What is this Pill? A Machine-Learning Approach for Pill Identification</i>	Mathematics + Computer Sciences	3	MacDougall <i>Title: The Effects of Lavendustin-A on Peripheral Nerve Degeneration in Hyperglycemic Zebrafish</i>	Biology
12	Baldwin <i>Title: The Influence of Gratitude on Close Relationships with Opposing Political Affiliation</i>	Psychology	11	Queen <i>Title: GraphXAI</i>	Mathematics + Computer Sciences
1	Barnell <i>Title: The Stumbling Block: Slavery, Compromise, and the Corwin Amendment</i>	Arts + Humanities	2	Robichaux <i>Title: Preliminary Analysis of Antibiotic Resistant Bacteria, Antibiotic Resistance Genes, and Contaminants in Sludge Following Hurricane Ida in Southeast Louisiana, USA</i>	Biology
5	Basile; Saylor <i>Title: Synthesis and Anticancer Potential of Benzofuran-Hydrazone Hybrid Compounds</i>	Chemistry	4	Rushanika <i>Title: Utilizing Nurr77 as a Surrogate Biomarker for CD8+ T Cell Activation to Assess the Immunological Effects of Berberine and Exercise</i>	Biology
6	Beale <i>Title: The Analysis and Remediation of Excess Fluoride in Drinking Water in Isle of Wight County, VA</i>	Chemistry	9	Rusiniak <i>Title: Water Quality of the Wabash River Using Biogeochemical Analysis and Biotic Indicators</i>	Geosciences
4	Buselli <i>Title: Using CRISPR Gene-Editing to Further Characterize a Sheep Variant of GM1 Gangliosidosis</i>	Biology	8	Shi <i>Title: Urea-Permeable Membrane for Selective Nanofiltration in Hemodialysis</i>	Engineering
7	Campo; Teper <i>Title: Qualifying the Value of Model-Based Systems Engineering as Perceived in Academic Literature</i>	Engineering	9	Skros <i>Title: Advancing Land-Use Adaptations During Disaster Recovery</i>	Geosciences
13	Clevenstine <i>Title: Restricting Access in Times of Increased Need: Why States Place Restrictions on the Supplemental Nutrition Assistance Program</i>	Social Sciences	12	Tarkar <i>Title: The Moderating Effect of Emotional Control on Math Anxiety and Math Performance in Elementary-School Children</i>	Psychology
12	Davis; Greenwood <i>Title: Detecting Accurate Emotions in Faces</i>	Psychology	5	Teng <i>Title: Real Time Atomic-Scale Mapping of the Relationship between Surface Chemistry and Crystallography to Understand Corrosion</i>	Chemistry
11	DeOliveira; Kim <i>Title: Human Context Recognition: A Controllable GAN Approach</i>	Mathematics + Computer Sciences	3	Tran <i>Title: Transgenerational Epigenetic Inheritance of Eye Size and Behavior in Daphnia</i>	Biology
7	Dunkelberger; J. Smith; Friesel <i>Title: The Investigation into the Existence of Local Minimum and Maximum Locations in Thermosiphon System Efficiency</i>	Engineering	10	Tyagi <i>Title: Investigating Why the Anti-Cancer Drug, Pembrolizumab, Fails in Certain Patients and Counter intuitively Promotes Melanoma Proliferation</i>	Health Sciences
10	Fogel <i>Title: Novel Biomarkers and Distinct Interferon Signature of Secondary Progressive Multiple Sclerosis</i>	Health Sciences	1	L. Wright <i>Title: The Sound of Identity: Audios and Hashtags as Nexuses of Practice on TikTok</i>	Arts + Humanities
13	Gustely; Kirby; Ordonez <i>Title: Space Debris Mitigation: Understanding the Business Case and Proposing Solutions</i>	Social Sciences	14	T. Wright <i>Title: The Effect of Length of Stay and Readmission on Total Charges of Total knee Arthroplasty and Total Hip Arthroplasty Patients</i>	Social Sciences
15	Hesami; Soltani <i>Title: Investigating Anti-Cancer Effects on Taraxacum Officinale</i>	Biology			

