

OFFICIAL AGENDA



STAMP Union | **April 5th, 2023**

Schedule at a Glance

Registration & Breakfast

9:00 AM

STAMP COLONY BALLROOM 2203

Opening Remarks

SPEAKER: PROVOST DR. JENNIFER KING RICE

9:30 AM

STAMP COLONY BALLROOM 2203

Presentations (Morning Session)

10:30 AM – 12:30 PM

Lunch

12:30 PM – 1:30 PM

STAMP COLONY BALLROOM 2203

Presentations (Afternoon Session)

1:30 PM – 2:30 PM

Presentations

Group 1:

Oral Presentations

Voices of Resistance and Resilience: Critical Perspectives on Social Justice and Equity

Panel M1: 10:30 AM – 11:30 AM

CALVERT ROOM 2100

Navigating Complexities in Health and Wellness of the Youth

JUDGES: DR. LINDA MACRI, DR. PAUL T. SHAPIRO

POND EZRA

"I Just Feel Like He's Okay With It": Interpretations Of Ambiguous Fathering Behaviors Among Sexual Minority Youth

AMARA CHANELL DOIG

The Impact of the 2022 Formula Shortage on Latina Mothers' Formula-Feeding Experiences

CHARLENE KUO

"I Need to Get My Culture Back": Integrating Culturally-based Approaches into Sexual and Reproductive Health Programs for Native Hawaiian and Pacific Islander Youth Experiencing Homelessness

TANGELA C. SCALES

Exploring the Role of Principals and Implicit Bias in Disproportionate Suspension Rates of Black Boys

Panel M2: 11:30 AM – 12:30 AM

CALVERT ROOM 2100

Artistic Expression and Activism in Challenging Systems of Oppression

JUDGES: DR. LINDA MACRI, DR. PAUL T. SHAPIRO

RASHA ALKHATEEB

Anti-Racist Creative Writing Workshop: Facilitator Perspectives

ROLONDA L. PAYNE

Black Fugitivity: Nurturing Liberatory Thoughts and Healing Spaces

SILVANA MONTANOLA

Legal Deservingness: Crafting Safe Spaces in the DMV

Group 2:

Oral Presentations

Innovations in Environmental and Health Research

Panel M3: 10:30 AM – 11:30 AM

CROSSLAND ROOM 2200

Diverse Topics in Biological Science

JUDGES: DR. YANXIN LIU, DR. GEN LI

SARAH ROTHMAN

Mosquitoes and Vegetation Across Socioeconomic Gradients

ANNA ZIMINA

Development of a Novel Approach to Broadly-Protective Anti-Enterovirus Vaccines

CATHERINE SAPP

Markers of Mitochondrial Fusion and Mitophagy are Greater in Old versus Young Rats

ALANA MICHELLE EWEN

The Relationship Between Depression, Metabolic Indicators, and Stress Reactivity

Panel M4: 11:30 AM – 12:30 PM

CROSSLAND ROOM 2200

Exploring Socioeconomic and Environmental Factors in Energy and Climate Research

JUDGES: DR. MARIA ZUBKOVA, DR. GEN LI

XUEYUAN GAO

Exploration Of a Novel Carbon Dioxide Removal Option: Lighting Up Tropical Forests at Night

SHRUSHTI SHAH

Climate Change and Mortgage Default Rate: The Correlation

JESS STAGGS

Community Values and Labor Archetypes during Transitions, from Yankee Whaling to Gulf Energy

LAVAN TEJA BURRA

Identifying Free-Ridership in Subsidies For Company- And Private Electric Vehicles

Group 3:

Oral Presentations

Education, Language, and Social Change: Perspectives on Teaching and Policy

Panel M5: 10:30 AM – 11:30 AM

PYON SU ROOM 2108

Education and Politics: Examining Social Inequality and Policy Implications

JUDGES: DR. MARCAL GRAHAM, DR. M. GISELA BARDOSSY

HARRIET JANE GOERS

A New Measure of Trade Dependence

NORA E JAMESON

Anti-Trans Legislation and Gun Control Is What You Use to Hit Your Target (Population)

KARTIKEYA BATRA

Long Run Effects of Land Redistribution: Evidence from India

ELNAZ SAFARHA, JUNG-EUN KIM, EMILY BAMBERGER

Global Perspective on Gender-Based Violence at the Intersection of Gender, Developmental Disability, and Race

ELIZABETH IRLBACHER

Ethnic Identity Salience: Do Regional Factors Matter?

Panel M6: 11:30 AM – 12:30 PM

PYON SU ROOM 2108

Teaching and Learning in the Classroom: Insights from Kindergarten to Graduate School

JUDGES: DR. MARCAL GRAHAM, DR. JING LIN

TARA BURKE JOHNSTON

Multiple Tiers and Multimodal Texts: Kindergarten Teachers' Vocabulary Instruction

NAN ZHANG

Cross-Language Phonological Activation among Bilingual Learners: A Meta-Analysis

SAMUEL DIBELLA

Meet-and-Defer: The Rhetorical Unmaking of Grad Academic Labor at the University of Maryland

CHRISTINE ALEXANDER

No One Ever Asks Us to Do This: A Phenomenology of Preservice Teachers Doing Applied Improv Designed for Learning Transfer

Group 4:

Poster Presentations

Advancing Research and Design: Exploring Innovative Approaches across Disciplines

Panel M7: 10:30 AM – 11:30 AM

JIMENEZ ROOM 2208

Innovation and Sustainability in Agriculture and Design

JUDGES: DR. DANIEL SERRANO, DR. C. SCOTT DEMPWOLF

ZHUO CHEN

Contemplative Practice Aimed at Helping Children to Connect with Nature, With Their Body and Heart, and With Others: A Video Design For 7-10 Years Old Students with and Without Disabilities and Their Instructors

MD SHIPON MIAH

Assessing Honeycrisp Red Skin Coloration and Fruit Maturity in The Mid-Atlantic as A Result of Preharvest Light and Ethylene Treatments

JOYCE KOO

Dismantling the Model Minority Stereotype: Investigating Differences in Academic Achievement among Asian American Subgroups in the U.S.

BHAVIT CHHABRA

Discovery Of a Susceptibility Factor for Fusarium Head Blight on Chromosome 7A Of Wheat

MARY ELIZABETH CHRISTENSEN

Villaggio Solidale: Creating a Landscape for Health and Well-Being Through Participatory Design. Findings from the field.

Panel M8: 11:30 AM – 12:30 PM

JIMENEZ ROOM 2208

Novel Approaches in Health and Technology

JUDGES: DR. DANIEL SERRANO, DR. C. SCOTT DEMPWOLF

JESSICA BODOSA

Metadynamics Study of Benzyltrimethylammonium Binding Free Energy To Emre Protein In All Atom Molecular Dynamics Simulations

NATHAN MANN

Influence of Motivation and Pleasure on Social Regulation of Anxiety in Individuals with Psychosis: A Heart Rate Variability Study

RIDWAN OLAWALE AHMED

Weighted Single-Step GWAS Identifies Genes Influencing Fillet Color in Rainbow Trout

ANNA PACKY

How Humanoid Robotic Teammate Quality Affects Human Cognitive-Motor Processes

MEGAN MA

Exploring The Morphological and Functional Consequences of The Orthognath-To-Labidognath Cheliceral Transition in Spiders

Group 5:

Oral Presentations

Bridging the Gap: Exploring the Intersection of AI, Physics, and Social Impact

Panel A1: 1:30 PM – 2:45 PM

CROSSLAND ROOM 2200

Road Safety, Music Education, and Social Justice: A Multidisciplinary Perspective

JUDGES: DR. NICOLE MOGUL, DR. KISLAYA PRASAD

LIVINGSTONE IMONITIE

Factors Influencing Severity of Crashes Among Vulnerable Road Users in Maryland

SARANSH GROVER

Using Crowdsourcing to Combat Misinformation on TikTok

SNEHESH SHRESTHA

Empowering Music Teachers and Students with AI

SAHRA IBRAHIMI

Women's Autonomy and Experience of Domestic Violence among Afghan Women in a Nationally Representative Sample

LILAH DRAFTS-JOHNSON

The Potential and Limitations of Gender-Based Violence Policies within the Sports Machine

Panel A2: 1:30 PM – 2:45 PM

CALVERT ROOM 2200

From Evidence Maps to Sustainable Energy: Advancements in Research and Technology

JUDGES: DR. PAUL T. SHAPIRO, C. SCOTT DEMPWOLF

JAY PATEL

Information Structures for Translating Research: From Evidence Maps to New Frontiers

AISHWARYA SHETTIGAR

Show And Tell: Exploring How Audio Narratives Can Complement Visualizations of Stroke Survivors' Personal Health Data

ABHISHEK KALPATTU

Extracting Accurate Information from Triplet-Triplet Annihilation Upconversion (TTA-UC) Data with A Mass Conserving Analytical Model

SMRITHAN RAVICHANDRAN

Electron Motion in Ultra-Intense Laser Pulses

DHINESH RAJASEKARAN

Sustainable Energy Using Cow's Methanogenesis

Map of STAMP



Organizers & Volunteers

Graduate Student Government

Lawrence Joao (Joey) Haavik

Siddhesh Ranade

Elizabeth Irlbacher

Coordinator

Ria Moghe

Volunteers

Saleel Anthrathodiyil

Swarup Kumar Subudhi

Ankur Mahesh Chavan

Alison Harding