

TUESDAY MARCH 21 Newcomb Hall

SCHEDULE OF EVENTS

Judge & Presenter Check-In

12:00-1:00

Keynote Address, Dr. Milton Adams

1:00-1:30, South Meeting Room

Oral Presentations

1:30-3:40

- Natural Sciences, Kaleidoscope Room
- Social Sciences, Gallery Room
- Arts & Humanities, Board Room 376

Poster Presentations & Reception

3:30-4:30, Newcomb Hall Ballroom

Awards Ceremony

4:30 - 5:00, Newcomb Hall Ballroom

NATURAL SCIENCES

Oral Presentations

- 1:30 Jessica Taggart, *Psychology*The Real Thing: Preschoolers Prefer True Activities to Pretend Ones
- 1:45 Ying Wang, *Chemistry*The Therapeutic Potential of Adenosine in Stroke Treatment
- 2:00 Edward Moan, *Physics*Classical Physics Redux: Using ultracold atoms to measure the rotation of the Earth
- 2:15 Alexandra Newman, *BIMS*Capping the Problem: Stabilizing artherosclerotic plaques to prevent fatal cardiac events
- 2:30 *Break*
- 2:40 Ioana Marin, *BIMS*Don't Stress Your Microbiome! How Intestinal Bacteria Affect Mental Health
- 2:55 Anna Way, *Biology*To Survive or To Reproduce- that is the question: Molecular deconstruction of the energy trade-off between soma and germline in *C. elegans*
- 3:10 Ana Estrada, *Biomedical Engineering*Computational Prediction of Heart Growth from Injury and Therapy
- 3:25 Rajveer Nehra, *Physics*Shining Light on a Quantum Computer

SOCIAL SCIENCES

Oral Presentations

- 1:30 Elissa Zeno, Sociology
 - Reproductive Futures in Action: Reconciling the Divergent Timelines of Career, Motherhood, and Reproduction
- 1:45 Robert Kubinec, Foreign Affairs

When Elites Fail to Undermine Democracy: Tunisia's Regime Transition in Comparative Perspective

- 2:00 Courtney Rogers, Public Health
 - Co-design for change: Developing an Health application with youth to address health disparities in Appalachia
- 2:15 Dannah Dennis, Anthropology

On the Road to Nowhere: Stalled Politics and Urban Infrastructure in Kathmandu

- 2:30 *Break*
- 2:40 Sasheenie Moodley, Public Health

Pilot Testing a Virtual Peer Support Network to Lower HIV Prevalence among Men at Risk for HIV in Botshabelo, South Africa

2:55 Yaping Wang, Foreign Affairs

The Dog That Barks: State-led Publicity Campaigns on Territorial Disputes

3:10 Zhe Zhu, Economics

Income Inequality and Manufacturing Employment: International Evidence and Lessons for US

3:25 Brandon Ng, Psychology

Stuck in My Ways or Capable of Change? Lay Personality Beliefs Moderate the Pain of Social Exclusion

ARTS & HUMANITIES

Oral Presentations

- 1:30 Elizabeth Austin, *Slavic Languages*Building Northern Siberia: the Causes and Effects of the Soviet GULAG
 System
- 1:45 Brian Neumann, *History*The Nullification Revival: Christianity and Political Crisis in Upcountry South Carolina
- 2:00 Alicia Caticha, *Praxis Fellowship Program*Dash-American: Keeping Up with the Media Ecologies of the Kardashians
- 2:15 Ross Mittiga, *Government*What's the Problem with Geo-Engineering?
- 2:30 *Break*
- 2:40 Maxwell Tfirn, *Music*Computers Learn Sound: Creating Timbre Through Neural Networks
- 2:55 Indu Ohri, *English*"He was Fighting the Child and Killing It": Traumatized Bodies, Youthful Victims, and Ghostly Revengers
- 3:10 William Boyce, *Religion Studies*Beyond Statistics: Sexual Minorities and Religious Expression

Maria Ali, Biology

Netrin-1 Influences Oligodendrocyte Progenitor Cell Spacing

Olga Askinazi, Biology

Lamellipodia in the test tube: Dynamin2 and cortactin organize actin networks in vitro

Shawna Benjamin<mark>, *BIMS*</mark>

Deconstructing the network of stress responses promoting cellular and organismal homeostasis in C. elegans

Rachana Bhave, Biology

Maintaining polymorphisms in the wild - Can two lizards be the same even if they look different?

Van<mark>essa Bijak, Che</mark>mistry

Differential binding affinities of Synataxin-1A with Munc18 using CW-EPR in the presence and absence of SNAP25

Margot Bjoring, Psychology

How do birds perceive song: Different neurons process sound differently

Audrey Brown, Biology

Operation Ghostbusters: A Path to Better Methods for Understanding Antimalarial Resistance

Rui Cao, Biomedical Engineering

Photoacoustic Microscopy of Cerebral Hemodynamic and Metabolic Responses to Anesthetics

Mihee Chung, Nursing

The Impact of Stigma Among caregivers of people with dementia: An Integrative Review of Literatures

Sarah Coe-Odess, Psychology

Epigenetic effects of social support in adolescence predict early adult psychosocial wellbeing

Brynn Cook, Environment Sciences

Pollination in the Anthropocene: the model pollinator Manduca Sexta (M. sexta) can learn to follow polluted floral plumes

Steven Dakermanji, Chemistry

Enantioenrichment of a Molybdenum Dearomatization Agent using Chiral Ligands

Caitlin Dreisbach, Nursing

Intimate partner violence and gestational weight gain in a populationbased sample of perinatal women

Marissa Drell, Psychology

Compulsory Equality: Children Think Resources Must Be Divided Equally

Sierra Eisen, Psychology

Heroes, Villains, and Everything in Between: Children's Assessment of Morally Ambiguous Characters

Nick Embrey, Economics

Skill loss and search assistance in general equilibrium

Amy Ferguson, Environment Sciences

Making the case for nature-based solutions to coastal erosion in Virginia's coastal bays

Lucy Guarnera, Psychology

When women conceive in rape: Legal attitudes and judgments among a jury-eligible sample

Qizhang Jia, Chemistry

Atomistic simulations of dopamine on carbon microelectrode surfaces

Jessica Kansky, Psychology

The Link Between Adolescent Autonomy in Romantic Relationships and Adult Romantic Qualities

Wenfan Ke, Biology

Creating the first single-cell resolution whole-organism atlas of metabolic gene expression by Fluorescent In Situ RNA Sequencing (FISSEQ) in C. elegans

Caroline Kelsey, Psychology

Early reputation management: Three-year-old children are more generous following priming with eyes

Alex Kreutzberger, BIMS

Reconstitution of Calcium Mediated Exocytosis of Secretory Vesicles

Sherry Liu, Nursing

Literature Review of Interventions for Children Exposed to Violence

Erin Maresh, Psychology

The hidden costs of social-evaluative threat on working memory

Jess<mark>ica Mazen, Psychology</mark>

Othe<mark>r risk factors affect</mark> the relat<mark>io</mark>nsh<mark>ip bet</mark>ween parental mo<mark>ni</mark>toring and marijuana use among American Indian adolescents

Jennifer McDaniels, Biology

The Generation of Extr<mark>a-chromosomal DNA Amplicons</mark> in Anti<mark>m</mark>alarial Resis<mark>tant Pla</mark>smodium falciparum

Thushani Nilaweera, Chemistry

Determining the role of conserved ion pairs between the barrel and hatch domain of BtuB

Sarah Nyenhuis, Chemistry

Membrane bridging by Synaptotagmin-1: the potential importance of cholesterol in a previously charge dominated regime

Shaina Rowell, Psychology

Positivity bias in memory for good and bad deeds

Tyler Santander, *Psychology*

The entropic brain: Towards a unifying endophenotype between genes and behavior

Chuck Schmidt, *Molecular Physiology and Biological Physics*Structure and function of the BCoR-AF9 complex and its implications in MLL-AF9 leukemias

Nichole Schwartz, Chemistry

Selective Photolytic Functionalization of Light Alkanes Using Iodine
Oxide and Chloride Salts

Becky Stanhope, BIMS

Chlamydia trachomatis IncV is a tether protein at membrane contact sites between the endoplasmic reticulum and the bacteria-containing compartment

Jacqueline Stevens, BIMS

Inflammation during female gonorrheal infection

Michael Swanberg, Nursing

A Canary in the Coal Mine: Exploring African-American women's lived experience of childbirth.

Alexandra Werntz, Psychology

Am I anxious?: Implicit and explicit self-concepts of anxiety predict symptom acknowledgement

Audrey Wittrup, Psychology

The Prevalence and Effects of Favorite Teachers

Meltem Yucel, Psychology

Tattling as cooperation: Young children tattle to enforce moral norms

Angela Zeigler, Biomedical Engineering

Making a Tough Decision: How do cells respond to complex signals?

Hui Zhao, Nursing

"Sphere of Influence": American Missionary Nurses in China, 1870s-1930s

Yunlu Zhu, Biology

Neural Crest Cells: Death Eaters in the Developing Nervous System

Paul Zivick, Astronomy

Exploring the Milky Way Dark Halo