



THE 2020 BRAINS & BEHAVIOR RETREAT



12:00 - 12:15 WELCOME & INTRODUCTION

12:15 - 1:05 KEYNOTE // NEGAR FANI PH.D.

Diverse Manifestations of Post-traumatic Stress Disorder: Biomarkers and Targets for Intervention

1:05 - 1:20 BREAK

1:20 - 1:55 DATA BLITZ

DATA BLITZ TEAM



LAURA CORTES
NEUROSCIENCE



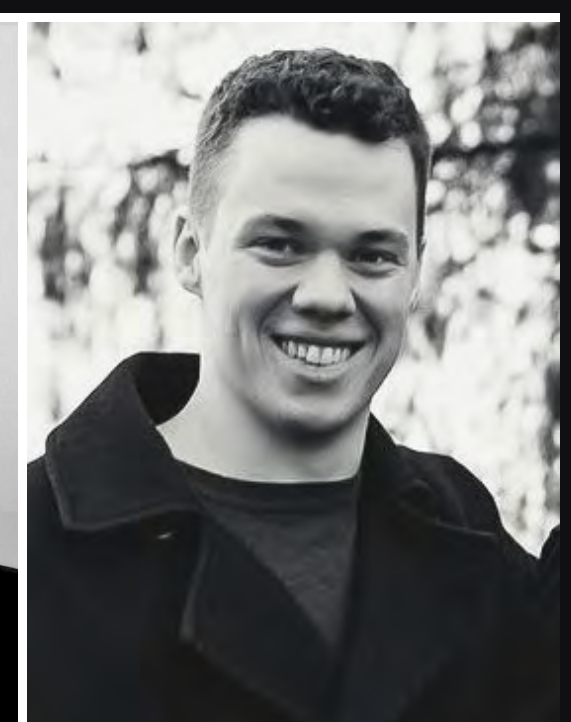
MATT DUNAWAY
PHILOSOPHY



MARY FERNANDES
PSYCHOLOGY



WENHAO JIANG
PSYCHOLOGY



DAVID SIMPSON
PHILOSOPHY

1:55P- 2:10 BREAK

2:10 - 3:00 DIVERSITY PANEL

Diversity, Equity, & Inclusion Panel



KAELA SINGLETON PH.D.



VINICIA BIANCARDI PH.D.

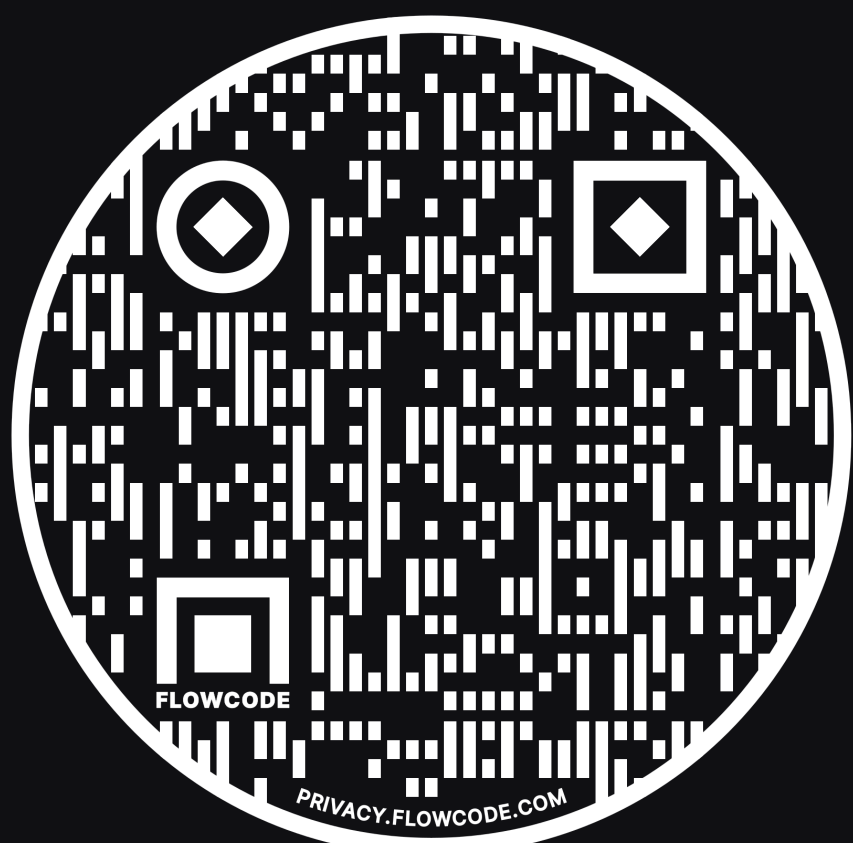


HOBY WEDLER PH.D.



JENNIFER KUBOTA PH.D.

3:00 - 4:00 POSTER SESSION



Scan the QR Code
with your camera to
register.

Or visit: <https://linktr.ee/gsubnb>

20 THUR
MAY
2021

THE 2021 RETREAT WILL BE HELD VIRTUALLY
FOR MORE INFORMATION GO TO [HTTPS://NEUROSCIENCE.GSU.EDU/
BRAINS-BEHAVIOR/BB-EVENTS/ANNUAL-RETREAT/](https://neuroscience.gsu.edu/brains-behavior/bb-events/annual-retreat/)

BRAINS & BEHAVIOR RETREAT

Diverse manifestations of Post-traumatic Stress Disorder: Biomarkers & Targets for Intervention

Role of epigenetics in sexual differentiation of estrogen receptor alpha

Coming Soon

Cognitive and psychiatric functioning among Cushing's syndrome patients in remission

Imaging genetics reveal shared mechanisms behind psychotic symptom profile in Schizophrenia and Bipolar Disorder

Reflection does not cause self-sacrifice

**To learn more about our
Diversity Panel,
find a pre-interview with
each of our speakers here!**

<https://vimeo.com/showcase/8398533>



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<https://www.virtualchair.net/events/gsu-brains-2021>

THE 2021 B&B RETREAT POSTER SESSION

3-4pm

Loud and Proud: Squeak Loudly and Carry a Big Kick **Sierra McAlister** Biology (Indiana University)

Seasonal and sex-specific regulation of 3 α -hydroxysteroid dehydrogenase (3 α -HSD) activity in Siberian hamsters **Kathleen M. Munley** Biology (Indiana University)

Enabling Benzodiazepine Precursor Development: Photo-activated CO Surrogate for Safer and Expedited Pd-Catalyzed Carbonylation **Nicola Bauer** Chemistry

Investigation of the Role of VAMP-Associated Protein A (VAPA) on the Calcium Sensing Receptor (CaSR) **Li Tian** Chemistry

Near-Infrared Electrochemiluminescence of Au Nanocluster Filmed on ITO electrode for Ratiometric Detection of Drugs **Hedi Ma** Chemistry

Separation of short and medium-chain fatty acids using capillary electrophoresis with indirect photometric detection: Identification of fatty acids in rat feces **Uyen Pham** Chemistry

Structural Basis and Mechanistic Insights of Metal Binding Sites of The Calcium Sensing Receptor Extracellular Domain **Cheyenne McBean** Chemistry

Dance Interventions Improving Balance in People with Parkinson's Disease: A Meta-Analysis **Caroline Simpkins** Kinesiology & Health

A Case Study on Jazz Practice and Improvisation **Charlotte Elise Dennison** Music Education

Advanced age and sex modulate Mu Opioid Receptor signaling mechanisms in the rat midbrain periaqueductal gray: Implications for analgesia **Evan Fullerton** Neuroscience

Characterizing Perineuronal Nets Following Social Defeat Stress **Emma Shaughnessy** Neuroscience

Early Life Pain Alters the Fever and Sickness Responses to an Adult Immune Challenge **Morgan Gomez** Neuroscience

Ionic Mechanisms Underlying Episodic Bursting **Jessica Parker** Neuroscience

Long Term Consequences of Perigestational Opioid Exposure **Hannah Harder** Neuroscience

Phenomenological Model of a Slow Synapses **Jack Scully** Neuroscience

The chaperonin CCT is required for cell-type specific dendritic diversity via regulatory effects on the microtubule cytoskeleton **Erin Lottes** Neuroscience

The Effect of Social Status and Social Stress on the Rewarding Properties of Social Interactions **Erica Williams** Neuroscience

The Neural Circuitry Behind Scent Marking in Syrian Hamsters **Jacob Vander Velden** Neuroscience

Visual cortical cell-type and local field responses for contextual processing **Connor Gallimore** Neuroscience

Effect of water content on short and medium chain fatty acid concentration: A time study to determine fatty acid content by CE-IPD in rat feces **Elizabeth Sambor** Neuroscience

Impact of Perigestational Opioid Exposure on Juvenile Play Behavior and Oxytocin Receptor Binding in Rats **Meghan Vogt** Neuroscience

Knockdown of Sex-Different Vasopressin Production in the Bed Nucleus of the Stria Terminalis Reduces Social Investigation, Communication, and Sex Behavior in Male, but Not in Female Mice **Niko Rigney**

Role of Arc Turnover in Tauopathies **Dina Yakout** Neuroscience

Characterizing cortical ensembles that process prediction in primary visual cortex **Jordan M. Ross** Neuroscience

Developmental impact of perigestational morphine exposure on the alcohol reward system of Sprague Dawley rats **Christopher Searles** Neuroscience

Emulsifier Consumption Increases Social Stress Sensitivity in Mice **Amanda Arnold** Neuroscience

Experience-Dependent Plasticity of Cold-Evoked Nociception **Kevin J. Donaldson, MS** Neuroscience

How the Fly Youth Chill: The evolution of cold nociception in drosophilid larvae and identification of a neural basis for cold acclimation **Nathaniel Himmel** Neuroscience

Neuronal ensembles for multisensory deviance detection in posterior parietal cortex **Alice B. Van Derveer** Neuroscience

Role of persistent sodium current controlling rhythm of CPG neurons **Ricardo Erazo Toscano** Neuroscience

Social defeat is mitigated in female, but not male Syrian hamsters, when tested in their home cage **Zachary Grieb** Neuroscience

TrpA1 mediates cold nociception in Drosophila melanogaster **Jamin Letcher** Neuroscience

Ubiquitin-dependent control of hypothalamic-pituitary-gonadal axis constituents **Arlene J. George** Neuroscience

Epigenetic Regulation of Estrogen Receptor Alpha **Laura R Cortes** Neuroscience

Error Functions and Blended Neural Circuits **Jassem N Bourahmah** Neuroscience

Probiotics Attenuate Cocaine-seeking Behavior in Adult but not Adolescent Male Rats **Kevin Mesape** Neuroscience

Characterization of Fibroblast Growth Factor 21 (FGF21) in a Neuroblastoma Cell Line **Hannah Land Lail** Nutrition

Tracking epileptic seizure network for better surgical decision making **Sushma Ghimire** Physics and Astronomy

An examination of the utility of a novel, fMRI-amenable behavioral task for the study of social approach-avoidance behavior **Anne E. Werkheiser** Psychology

Graph theoretical analysis of brain network characteristics in brain tumor: A review **Eric Semmel** Psychology

Hierarchical Cluster Analysis for Gray Matter and Symptom Subtype in Schizophrenia **Kelly Rootes-Murdy** Psychology

Impact of Eye Cues on Attention and Reaction Time in Capuchin Monkeys (Cebus apella) **Elizabeth Haseltine** Psychology

MTHFR Single Nucleotide Polymorphism Associated with Working Memory in Pediatric Medulloblastoma Survivors **Rella Kautiainen** Psychology

Neurophysiology of Mental Imagery **Thomas Pietruszewski** Psychology

Periventricular White Matter Hyperintensity Relationships with Processing Speed in Long-Term Survivors of Childhood Posterior Fossa Tumor **Holly Aleksonis** Psychology

The Role of White Matter in the Negative Symptoms of Schizophrenia **Jesse T Edmond** Psychology

White matter hyperintensities relate to executive dysfunction, apathy, but not disinhibition in long-term adult survivors of pediatric posterior fossa tumor **Olivia Haller** Psychology

Functional Network Connectivity during Jazz Improvisation **Martin Norgaard** School of Music



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