



8:30 a.m. Welcome & Dean's Message

8:48 AM

Peter Flo Grinde-Hollevik, EEP+Data Science | Faculty Mentor: Duncan Callaway
RCNR Faculty Sponsor: Sofia Villas-Boas, ARE
Geospatial Embeddings for Pollution Prediction: NO2 in the Bay Area

9:00 AM

Enzo Cremers, EEP+Applied Mathematics | Faculty Mentor: Shutri Sarode
RCNR Faculty Mentor: Sofia Villas-Boas, ARE
Policy Strategies to Accelerate the Deployment of Heavy-Duty Electric Vehicle Charging Infrastructure in California

9:12 AM

Jessica Liu, EEP | Faculty Advisor: James Sallee, ARE
Electrifying California: A Predictive Model for Electric Vehicle Adoption

9:24 AM

Sarah Ng, EEP | Faculty Advisor: James Sallee, ARE
The Inflation Reduction Act's Impact on Heat Pump Interest

9:36 AM

Malena Buffagni, EEP+S&E | Faculty Advisor: Daniel Kammen, ERG
Quantifying the Costs of Global vs. National Electric Vehicle Battery Supply Chains

9:48AM

Neida Aldana-Felix, S&E | Faculty Advisor: Daniel Kammen, ERG
Racial and Ethnic Inequalities in Electric Vehicle Adoption and Charging Infrastructure Availability

10:00 AM

Lanie Goldberg, EEP | Faculty Advisor: Sofia Villas-Boas, ARE
The Impact of California's LCFS Renewable Natural Gas Incentives on the Intensity of Dairy Factory Farming

10:12 AM

Madden Miller, S&E | Faculty Advisor: Andrew Isaacs
RCNR Faculty Sponsor: Kate O'Neill, ESPM
The Intersection of Greenwashing in the Clothing Industry & Lack of Consumer Understanding of Climate Change

-----BREAK-----

10:36 AM

Alexandra Jade Garcia, S&E | Faculty Advisor: James Nolan

RCNR Faculty Sponsor: Youjin Chung, ERG

Towards a Feminist Analysis on Advancing Maternal Adaptive Capacity to Climate Change in the U.S.

10:48AM

Ian Grace, S&E | Faculty Advisor: Christy Getz, ESPM

Wildfire Managed Retreat in California: Considerations for Climate Adaption in a Crowded and Combustible State

11:00AM

Kiran Bengard, CRS | Faculty Advisor: Christy Getz, ESPM

Harvesting Change: A Multifaced Analysis of the Challenges Faced by Small Farms in California's Central Valley

11:12 AM

Amy Johnson Rodas CRS + Poli Sci | Faculty Advisor: Kurt Spreyer, ESPM

Solar Injustice: A Comparative Analysis of the Health and Economic Impacts of Solar Generation Methods on Minority Communities in California

11:24 AM

Stella Wing, CRS | Faculty Advisor: Minho Kim | RCNR Faculty Sponsor: Kurt Spreyer, ESPM

A Spatiotemporal Analysis of Agricultural Land Use Changes in California's Central Valley during Recent Drought Years

11:36 AM

Rachel Whiteside, CRS | Faculty Advisor: Iryna Dronova, ESPM

Monitoring Agricultural Patterns in Ukraine During Wartime Using Remote Sensing and Machine Learning Technologies

11:48 AM

Khristina Holterman, CRS | Faculty Advisor: Alan Pomerantz

RCNR Faculty Sponsor: Alistair Iles, ESPM

Combatting CAFOs and Climate Change: Exploring the Implications and Arguments for Granting Livestock Legal Standing

12:00 PM

Luna Hohner-Shields, S&E | Faculty Advisor: Margaret Slattery

RCNR Faculty Sponsor: Carl Boettiger, ESPM

Mapping the Feasibility of Renewable Microgrids for Addressing Energy Poverty in California

12:12 PM

Diana Kalantar, MEB | Faculty Advisor: Christopher Martin

RCNR Faculty Sponsor: Carl Boettiger, ESPM

Brain Morphology Variation in Lake Barombi Mbo Cichlids: A Comparative Analysis of Forebrain, Midbrain, and Hindbrain

-----LUNCH-----

1:24 PM

Shannon Paulson, EEP | Faculty Advisor: Larry Karp, ARE
Global Ramifications of Degrowth Agricultural Emissions Reduction Policies

1:36 PM

Isabelle Do, EMF+MEB | Faculty Advisor: Katie Lichter
RCNR Faculty Sponsor: John Battles, ESPM
Protecting Access to Cancer Treatment in Fire-Prone Areas: Evaluating Community Wildfire Protection Plans' Considerations

1:48 PM

Isabelle Do, EMF+MEB | Faculty Advisor: Kevin Tran
RCNR Faculty Sponsor: Benjamin Williams, PMB
Epigenetic Engineering Overrides a Key Regulator of *Arabidopsis* Chlorophyll Productin and Flowering Time

2:00 PM

Jacqueline Ramos, CRS | Faculty Advisor: Patina K. Mendez, ESPM
The Effects of Recreational Activities of Campgrounds on the Water Quality of Freshwater Ecosystems

2:12 PM

Tessa Auer, ES | Faculty Advisor: Yocelyn Villa | RCNR Faculty Sponsor: Whendee Silver, ESPM
Carbon Fractions in Composts of Differing Chemical Compositions

2:24 PM

Louis Cimmino, EMF | Faculty Mentor: Robert York, ESPM
Variation in Mixed-Conifer Seedling Performance Across Post-Wildfire Reforestation Treatment Types at Blodgett Forest Research Station

2:36 PM

Jillyan Tang, MEB | Faculty Advisor: Eileen Lacey
RCNR Faculty Sponsor: Rosemary Gillespie, ESPM
Activity Patterns in Captive Colonial Tuco-Tucos (*Ctenomys sociabilis*)

2:48 PM

Emily Banno, MEB | Faculty Advisor: Kendall Calhoun | RCNR Faculty Sponsor: Christopher Schell, ESPM
Bird Species Richness and Abundance Across an Urban Gradient

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3:12 PM

Tyler Misraje, MEB | Faculty Advisor: Robert Dudley | RCNR Faculty Sponsor: Todd Dawson, ESPM
Metabolic Effects of Myo-Insoitol on Anna's Hummingbirds

3:24 PM

Rachel Wong, CRS | Faculty Advisor: Kipling Will, ESPM
Seeing Spots and Chasing Dots: Coccinellidae Diversity in the Diablo Range, California, USA

3:36 PM

Blanca Seiter, CRS | Faculty Advisor: Kipling Will, ESPM

Differences in Breeding Condition of Marked and Unmarked California *Pterostichines* in the Subgenus *Hypheres* (Coleoptera: Carabidae)

3:48 PM

Sainjargal Uuganbayar, NST | Faculty Advisor: Zachary Knight

RCNR Faculty Sponsor: Andreas Stahl, NST

Regulation of Food Intake During the Ovarian Cycle

4:00 PM

Maggie Cheng, NST; MCB | Faculty Advisor: Marc Hellerstein, NST

Effects of Obesity and Insulin Resistance on Skeletal Muscle Proteome Dynamics

4:12 PM

Xinyin Lu, GPB; Philosophy | RCNR Faculty Sponsor: Benjamin Blackman, PMB

Adeno-associated Virus (AAV) VP1u Exhibits Transcription Activation Activity

-----END OF DAY-----

Symposium Judges:

Kathleen Ryan, PMB,

Sofia Villas-Boas, ARE

Thanks & special acknowledgement to Sofia Villas-Boas and Jay Sevilla for their organization and contributions to the RCNR Honors Research Program.

Additional thanks to RCNR Intake Advisor Craig Crossley & our wonderful Student Workers (Amanda Hernandez, Neve Schneider & Aileen Perez) for the creation of these programs!