



8:30 a.m. Dean's Welcome

8:40 a.m. Remarks from Sofia Villas-Boas

8:48 AM

Henrique Carneiro Zhu, EMF | RCNR Faculty Mentor: Nina Pak, ESPM
Coastal Dune Fencing Effects on Insect Diversity and Trophic Ecology in Northern Portugal

9:00 AM

Yizi Li, CRS | RCNR Faculty Mentor: Ignacio Chapela, ESPM
The Functional Ecomorphology of Claws in New World Sciuridae

9:12 AM

Benjamin Levin, CRS | RCNR Faculty Mentor: Justin Brashares, ESPM
Factors Influencing the Occupancy of Red Foxes (*Vulpes vulpes*) in a Restored San Francisco Bay Wetland

9:24 AM

Emma Campbell, CRS | RCNR Faculty Mentor: Arthur Middleton, ESPM
Comparing Migrant and Resident Elk Behavioral Responses to Fences

9:36 AM

Joseph Toman, CRS/MEB | RCNR Faculty Mentor: Ian Wang, ESPM
The Effect of Land Use History on Metapopulations: How Grazing and Roads Impact *Taricha torosa* Migration and Breeding in the San Francisco Bay Area

9:48AM

Lexi Caruthers, CRS/SED | RCNR Faculty Mentor: Roxanna Marie Cruz, ESPM
Remediation of Soil Utilizing Hyperaccumulating Plants

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10:12 AM

Lia Keener, MEB | RCNR Faculty Mentor: Laura Gigliotti, ESPM | RCNR Faculty Sponsor: Arthur Middleton, ESPM
Analyzing Changes in Greenness Over Time in Relation to Herbivore Recolonization in the Bayala Game Reserve

10:24 AM

Dan Willett, MEB | RCNR Faculty Mentor: Whendee Silver, ESPM
Feasibility of Detecting Grassland Soil Management Effects Using Remote Sensing

10:36 AM

Anna Pi, MEB/Data Science | RCNR Faculty Mentor: Sona Kang, NST
Investigating the Role of AIFM2 in Skeletal Muscle During High Intensity Aerobic Exercise

10:48AM

Maya Akkaraju, MEB | Faculty Mentor: Ashley Wolf, Public Health | RCNR Faculty Sponsor: Kim Seed, PMB

Investigating the Impact of an Altered Immune System on Gut Microbiome Communities

11:00 AM

Heidi Yang, MEB | RCNR Faculty Mentor: Rosemary Gillespie, ESPM

Investigating the Role of Transposable Elements in the Adaptive Radiation of Hawaiian Tetragnatha Spiders

11:12 AM

Xuehao Ma, MEB | RCNR Faculty Mentor: George Bentley, Integrative Biology | RCNR Faculty Sponsor: Damian Elias, ESPM

Rapid Effects of Acute Stress on the HPG Axis of Big Brown Bats

11:24 AM

Aiden Keller, MEB | RCNR Faculty Mentor: Lynn Huntsinger, ESPM

Spatial Diversity Mapping and Morphometric Analyses of *Haliotis* Along the Northern California Coastline

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12:36 PM

Athena Lee, NST/MEB | RCNR Faculty Mentor: Andreas Stahl, NST

Modeling Metabolic and Immuno Competent White Adipose Tissue in Microphysiological System Using Single Induced Pluripotent Stem Cells Source

12:48 PM

Wonsik Woo, NST | RCNR Faculty Mentor: Joseph Napoli, NST

Regulation of 9-cis-retinoic Acid Biosynthesis and its Effects on Autophagy in Pancreatic β -cells

1:00 PM

Kellan Kim, NST | Faculty Mentor: Christian Vaisse, UCSF | RCNR Faculty Sponsor: Jen-Chywan Wang, NST

Antennas in the Brain: A Closer Look at How We Control Appetite

1:12 PM

Annie Gallivan, NST | Faculty Mentor: Angela Rivers, UCSF | RCNR Faculty Sponsor: Sabeecha Merchant, PMB

Evaluating Erythrocyte Mitochondrial Retention in Mouse Models of Stress Erythropoiesis

1:24 PM

Ava Joseph, GPB | RCNR Faculty Mentor: Raphaela Floreani, ESPM

Soil Seed Banks of Native and Non-native Plants in California's Vernal Pools

1:36 PM

Connor Tumelty, GPB | RCNR Faculty Mentor: Ben Williams, PMB

Engineering Novel Epialleles via Directed de novo DNA Methylation in *Arabidopsis thaliana*

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2:00 PM

Kyralai Duppel, S&E | RCNR Faculty Mentor: Kate O'Neill, ESPM

The Intersection of Labor Abuses and Environmental Degradation in the Global Fishing Industry: The Extent and Potential Solutions

2:12 PM

Emily Woods, S&E | Faculty Mentor: Nell Green Nylen, Berkeley Law | RCNR Faculty Sponsor: Damian Elias, ESPM

Climate Change Mitigation and Constitutional Environmental Rights

2:24 PM

Annie Mitchell, S&E | Faculty Mentor: James Eckhouse, Geography | RCNR Faculty Sponsor: Kate O'Neill, ESPM

When Climate Change and Poverty Intersect: Food Insecurity and Sex Work Amongst East African Women

2:36 PM

Zoe Fairlie, CRS/EEP | RCNR Faculty Mentor: Arthur Middleton, ESPM

The Effects of Highways on Guanaco Movement in Patagonia

2:48 PM

Kelly Rice, CRS/SED | Faculty Mentor: Kristina Hill, Landscape Architecture | RCNR Faculty Sponsor: Kate O'Neill, ESPM

Analysing Current and Future Contaminant Release with Predicted Groundwater Rise at the AstraZeneca Site in Richmond

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

Symposium Judges:

Laureano Gherardi, ESPM

Lynn Huntsinger, ESPM

Sofia Villas-Boas, ARE

Brian Wright, ARE

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