

The California Botanical Society's 28th Annual Graduate Student Symposium

Friday – April 30

9:00 - 9:15 am	Welcome and Schedule overview
9:15 - 10:00 am	<p>Session 1 : Pathogens and Invasives</p> <p><u>Eduardo Luis Cruz</u> Attack of the Clones: Using transcriptomics to investigate the invasion success of <i>Carpobrotus edulis</i></p> <p><u>Greg Huffman</u> Fungi associated with herbaceous native and non-native plants in Coastal Northern California</p> <p><u>Franki Crites</u> Distribution and Frequency of Aquatic Oomycetes Throughout Marin County in Relation to Physical Chemical Water Parameters</p>
10:00 - 10:30 am	Coffee Break
10:30 - 12:00 pm	<p>Session 2 : Phylogenetics and Hybridization</p> <p><u>Niveditha Ramadoss</u> The Phylogenetic Relationships of the Subfamily Arbutoideae (Ericaceae). Implications for the Origin of <i>Arbutus</i></p> <p><u>Ioana Anghel</u> Close relatives in sympatry: is there evidence of contemporary or historical gene flow between species of <i>Linanthus</i>?</p> <p><u>Glen Morrison</u> Genomic data show genetic distinction among some, but not all species, in the historically puzzling genus <i>Arctostaphylos</i>.</p> <p><u>Ryan Buck</u> Pinyon Pine Syngameonic Hybridization</p> <p><u>Alexandra McElwee-Adame</u> Multidirectional Hybridization Challenges Species Boundaries Within the Plant Genus <i>Arbutus</i> of Mexico</p> <p><u>Reece Riley</u> A Phylogeny of the Genus <i>Helianthella</i></p>
12:00 - 1:45 pm	<p>Lunch Seminar : Talk to a Botanist 1</p> <p><u>Daniel Winkler</u> Research Ecologist at the <i>United States Geological Survey</i></p>

Josie Lesage

Applied Ecologist at *Santa Barbara Botanic Garden*

Nick Jensen

Conservation Program Director at *California Native Plant Society*

Stephanie Freed

Assistant Director of Operations at *Ecosystem Investment Partners*

Steven Serkanic

Terrestrial Biologist at *Pacific Gas and Electric*

1:45 - 2:30 pm

Session 3 : Lightning 1 + Physiology

Anjum Kaur Gujral (LT)

Investigating leaf trait coordination and its role in determining habitat suitability under current and future climate

Emma Fryer (LT)

Community Assembly of Vertic Clay Endemic Annual Plants of the San Joaquin Desert

Alec Chiono (LT)

Testing the Climatic Variability Hypothesis with coastal and inland populations of *Mimulus guttatus*

Carlos Anthony Portillo

Experimental crosses reveal seedless fruits in the functionally dioecious *Cylindropuntia wolfii*

Beverlie Gomez

Solving Controversies: A Case Study of Plant Hydraulics

2:30 - 3:30 pm

Poster Session (Gathertown)

Adriana Hernandez

Identifying ecological drivers of diversity in the highly polymorphic California endemic lily, *Calochortus venustus*

Aneetta V.J

Eco-friendly Fabric Dyeing using *Anchusa capensis* Flower

Desiree Hale

Testing the predictive utility of breeding system and other trait combinations on island colonization

Diana Verónica López Silva

A comparison of the thermal performance of two extensive green roofs covered with plants differing in carbon metabolism

	<p style="text-align: center;"><u>Gustavo Velázquez Martínez</u></p> <p style="text-align: center;">Effect of the glandular and stellate trichomes of <i>Datura wrightii</i> (Solanaceae) on the specialist's survival and development beetle <i>Lema daturaphila</i> (Chrysomelidae: Coleoptera)</p> <p style="text-align: center;"><u>Myriam Serrano</u></p> <p style="text-align: center;">Tracking Leaf Trait Differentiation of Newly Diverging Subspecies of <i>Chenopodium oahuense</i> on the Hawaiian Islands</p> <p style="text-align: center;"><u>Paris Krause</u></p> <p style="text-align: center;">Using terrestrial laser scanning to evaluate non-destructive aboveground biomass allometries in diverse northern California forests</p> <p style="text-align: center;"><u>Nora Bales</u></p> <p style="text-align: center;">Investigating the relationship between biological soil crusts and purple amole (<i>Hooveria purpurea</i> var. <i>purpurea</i>), a rare plant on California's Central Coast</p>
3:30 - 4:30 pm	Social Hour (<u>Gathertown</u>)



Saturday – May 1

9:00 - 9:15 am	Welcome and Schedule overview
9:15 - 10:15 am	<p>Session 4 : Fire and Diversity</p> <p style="text-align: center;"><u>Nina House</u></p> <p style="text-align: center;">A Vascular Flora of the Manter and Salmon Creek Watersheds in the Southern Sierra Nevada, Tulare County, CA</p> <p style="text-align: center;"><u>Christina Varnava</u></p> <p style="text-align: center;">Exploring botanical diversity in the ashes of the Thomas Fire: A vascular flora of the upper Sespe Creek watershed</p> <p style="text-align: center;"><u>Brianne Palmer</u></p> <p style="text-align: center;">Biocrusts and Vegetation Differ in Fire Recovery in a Coastal Grassland</p> <p style="text-align: center;"><u>Rachael L. Olliff Yang</u></p> <p style="text-align: center;">Population differentiation in flowering time in <i>Lasthenia gracilis</i>, a widespread annual forb</p>
10:15 - 10:45 am	Coffee Break
10:45 - 12:00 pm	<p>Session 5 : Climate and Drought</p> <p style="text-align: center;"><u>Denise Mitchell</u></p> <p style="text-align: center;">Coordination of drought tolerance and heat tolerance in woody species across ecosystems</p>

Justin Luong

Drought responses and recovery of coastal prairie species experiencing non-native competition

Samantha Spurlin

Rapid responses to drought in a California rare annual wildflower, San Francisco *Collinsia* (*Collinsia multicolor*)

Brooke Wainwright

What does the future look like? Exploring plant community change at the recruitment life stage

Lacey Benson

A morphometric analysis of western sword fern (*Polystichum munitum*) pinnae and pinnae scales across the coast redwood forest ecological gradient

12:00 - 1:45 pm

Lunch Seminar : Talk to a Botanist 2

Carlos A. de la Rosa

Natural Lands Manager at *San Diego Zoo Wildlife Alliance*

Clare Loughran

Assistant Curator at *UC Botanical Garden at Berkeley*

Laura Klein

Head Curator and Director of Herbal Research at *LeafWorks Inc*

Lorena Villanueva Almanza

Editor at *Botany One*, *Freelance Science Writer and Editor*

Lusetta Sims

Botanist at *Shasta-Trinity National Forest*

1:45 - 2:45 pm

Session 6 : Lightning 2 + Ecology

Adriana Hernandez (LT)

Identifying ecological drivers of diversity in the highly polymorphic California endemic lily, *Calochortus venustus*

Rosie Deak (LT)

Fire influences on meadow vegetation composition

Jacob Spriester (LT)

Plumbing the depths: plant rooting patterns are linked to drought resistance in chaparral shrubs

Nelly Rodriguez (LT)

Assessing drought tolerance in the tribal oak *Quercus agrifolia*

	<p style="text-align: center;"><u>Naveena Shri C</u> (LT) <i>Canna indica</i> Plant Fibres- A Potential Source for Technical Textile Application</p> <p style="text-align: center;"><u>Eli Balderas</u> (LT) An Ecological Assessment of a Rare and Endangered Lichen from Central California: <i>Sulcaria isidiifera</i>, the Splitting Yarn Lichen</p> <p style="text-align: center;"><u>Michael Mulroy</u> Lichen biotas of ultramafic and sandstone outcrops along a maritime gradient</p> <p style="text-align: center;"><u>Mitchell Coleman</u> Riparian and Wetland Enhancement Projects at Tejon Ranch: Past, Present, Future</p>
2:45 - 3:00 pm	Break
3:00 - 4:00 pm	<p>Keynote Address</p> <p style="text-align: center;"><u>Dr. Ivalu Cacho</u> Evolutionary ecology of Californian Jewelflowers, an integrative approach</p>
4:00 - 4:15 pm	Thank you and Awards
4:15 - 5:00 pm	Open socialization

