

Biology Department Student Scholarly Work

Master's Student Internships

Wendy Berube, Pacific Marine Mammal Center, Laguna Beach, CA
Karim Dahdouh, Point Loma Nazarene University Biology Department
Ezra Dass, Point Loma Nazarene University Biology Department
Luis Gallardo, San Diego City College Biology Department
Jesus Garcia, CSU Stanislaus Biology Department
Eileen Huffer-Ege, San Diego City College Biology Department
Cindy Woo, Point Loma Nazarene University Biology Department

Master's Student Thesis

Richard Peterson: "Creationist-Believing Students' Scientific Knowledge and Reasoning about Evolution"

Undergraduate Honors Projects

Audrianna Alonso: "Navigating macrophage polarization by tumors"

Verushqa Andrade: "The Role of the Human Microbiome in Health"

Joseph Bravo: "Genotypic and Phenotypic Characterization of a set of Vancomycin Resistance Plasmids Captured from a WWTP"

Rachel Culver and Ashley Julio: "In Vitro Assembly of Bacteriophage Lambda Procapsid to Enable Payload Encapsulation for Targeted Drug Delivery"

Sebastian Elsenbroek: "Studies at Hannibal Bank, Panama: A Study of Evolutionary History of Mollusks and Developing a Program to Review Dive Track Data"

Amy Eppert: "Predator-prey relationships for coyote (*Canis latrans*), ocelot (*Leopardus pardalis*), and puma (*Puma concolor*) in Costa Rican ecosystems."

Hannah Lee: "A Study of Pencil Urchin Population Genetics at Hannibal Bank"

Shelby Kenney: "Mating Frequencies of Conjugative Resistance Plasmids in Liquid and Biofilm Cultures"

Mariele Lensink: "Computational Analysis of the Relationships between Antibiotic Resistance and Plasmid Backbone Genes"

Rebecca Salgado : "The role of tumor necrosis factor receptor superfamily members on regulation of T cell response to Zika virus"

Undergraduate Student Presentations

Audrianna Alonso*, Bridget Fortin, Jeffrey Snowbarger (Mentors: Michael I. Dorrell and Heidi Woelbern): “Understanding macrophage polarization by tumors,” WCBSURC, 2019.

Daniela Avila*, Gavin Banning*, Tom Roser, Ashley Julio (Mentor: Kristopher J. Koudelka): “Assembly and Surface Modification of Viral Nanoparticles for Chemotherapeutic Drug Delivery,” WCBSURC, 2019.

Steven Blankenship*, Amy Eppert, Abner Rodriguez, Timothy Wiegman (Mentors: Mike Mooring and Ryan Botts): “New camera trap survey reveals rare and elusive mammals at La Amistad International Park, Costa Rica,” WCBSURC, 2019

Lacey Culpepper*, Connor Lowey*, Amy Rausch (Mentors: Heidi Woelbern, Michael I. Dorrell, and Arianne Jansma): “Studying the oncogenic effects of hpv viral proteins on retinoblastoma activity and degradation,” WCBSURC, 2019.

Rachel Culver*, Ashley Julio (Mentor: Kristopher J. Koudelka): “In Vitro Assembly of Bacteriophage Lambda Procapsid to Enable Payload Encapsulation for Targeted Drug Delivery,” WCBSURC, 2019.

Sebastian Elsenbroek* (Mentor: Walter Cho): “A Study of the Evolutionary History of Mollusks at Hannibal Bank,” WCBSURC, 2019.

Amy Eppert*, Abner Rodriguez, Steven Blankenship, Timothy Wiegman (Mentors: Ryan Botts and Mike Mooring) : “Predator-prey relationships in high elevation Costa Rican ecosystems,” WCBSURC, 2019

Bridget Fortin*, Allison Hale*, Connor Lowey, Amy Rausch, Jeffrey Snowbarger (Mentors: Michael I. Dorrell and Heidi Woelbern): “Identification of avastin and torisel as a synergistic angiostatic combination to treat cancer,” WCBSURC, 2019.

Yuendie Guridi*, Victoria Chavez*, Courtney Rundio*, Alexander Earle, and Taylor Steele (Mentors: Michael McConnell and Ryan Botts): Characterization of a Bacteriophage that can Infect Four of the Five Major Disease-causing Salmonella Serogroups, “WCBSURC, 2019.

Hannah Lee* (Mentor: Walter Cho): “A Study of Pencil Urchin Population Genetics at Hannibal Bank,” WCBSURC, 2019.

Ashley Julio*, Tom Roser, Justin Morin, Madison Ziegler (Mentor: Kristopher J. Koudelka): “Assembly and Surface Modification of Viral Nanoparticles for Chemotherapeutic Drug Delivery,” WCBSURC, 2018.

Rebecca Salgado* (Mentors: Kristopher Koudelka and Sujana Shrestha): “Regulation of T Cell Responses to Zika Virus Infection Through the Tumor Necrosis Factor Superfamily Members OX40 and GITR,” WCBSURC, 2019.

Undergraduate Student Summer Research

Erin Armstrong
Daniela Avila
David Avila
Gavin Banning
Dakota Betz
Steven Blankenship
Savannah Bolock
Joe Bravo
Madelaine Brown
Victoria Chavez
Carley Coopwood
Alex Earle
Sebastian Elsenbroek
Amy Eppert
Bridget Fortin
Yuendie Guridi
Allison Hale
Ashley Hernandez
Gabrielle Hovis
Ashley Julio
Quaid Kawana
Shelby Kenney
Hannah Lee
Mariele Lensink
Connor Lowey
Malia Lozano
Megan McFadden
Megan Paternoster
Andrew Pecora
Amy Rausch
Abner Rodriguez
Thomas Roser
Courtney Rundio
Isabella Simmons
TJ Wiegman
Gillian Yap

Undergraduate Student BIO499 Research

Gavin Banning
Steven Blankenship
Dakota Bow-Graham

Madelaine Brown
Lacey Culpepper
Esmeralda Elia
Nathan Ellison
Amy Eppert
Arianna Gutierrez
Mackenzie Marsh
Daniella Parra
Gillian Yap

Undergraduate Student Internships

Sarah Bushrow, Center for Research on Addiction and Brain Health
Johanna DeGraf, San Diego River Park Foundation
Hannah Dinsdale, US Navy Marine Mammal Program
Esmeralda Elia, Kaiser Permanente
Amy Eppert, Volcan Mountain Foundation
Nathaniel Errez, Crown Bioscience
Sarah Gorman, Solana Center
Emily Jenkins, Plant with Purpose
Megan McFadden, Project Wildlife
Mariele Lensink, J. Craig Venter Institute
Heather Parsons, Hawaii Institute for Marine Biology
Hoa Vu, San Diego Miramar College
Kendall Walwick, Crown Biosciences
Tessera Warholic, Zoo Boise
TJ Wiegman, Volcan Mountain Foundation

Undergraduate Off-Campus Field Programs

Erin Armstrong - QERC Semester, Costa Rica (Spring 2019)
Victoria Bewley - Au Sable Pacific Rim, USA (Summer 2019)
Steven Blankenship - SFS Bhutan (Fall 2018)
Andrew Burwell - SAI Sorrento, Italy (Spring 2019)
Sheldon Compton - SFS Tanzania (Summer 2018)
Emily Jenkins - Au Sable Pacific Rim, USA (Summer 2019)
Dane Brizzolara - Au Sable Costa Rica (Summer 2019)
Ashley Hernandez - Au Sable Great Lakes, USA (Summer 2019)
Elizabeth Deer - Au Sable Pacific Rim, USA (Summer 2019)
Johanna De Graaf - Au Sable Great Lakes, USA (Summer 2019)
Colman McVaney - Au Sable Pacific Rim, USA (Summer 2019)
Daniel Nauert - Au Sable Great Lakes, USA (Summer 2019)
Sierra Ullrich - CCSP New Zealand (Fall 2019)

Undergraduate Fellowship Awards

Emily Jenkins - \$2500 Cal DeWitt Fellowship Honorable Mention
Dane Brizzolara - \$2000 Creation Care Outreach Fellowship

Ashley Hernandez - \$1500 Au Sable Fellowship
Elizabeth Deer - \$1500 Au Sable Fellowship
Johanna De Graaf - \$1500 Au Sable Fellowship
Victoria Bewley - \$1500 Au Sable Fellowship