2018 Professional Development Program

23 teams designing and deploying inquiry learning activities to undergraduate students in STEM

Chemistry WEST – Chemistry & Biochemistry – UCSC



Astrostatistics WEST – Astronomy, Astrophysics– UCSC



Jocelyn Macho Graduate Student JC Santa Cruz

Paolo Turri

UC Berkeley

Postdoc

Forrest Nichols Graduate Student UC Santa Cruz

Christine O'Donnell

University of Arizona

Graduate Student

MARC Summer Research Institute PREP – Biomedical Science – UCSC





Diana Hooker-Romero **Graduate Student** UC Santa Cruz

Guinevere Ashley Graduate Student UC Santa Cruz

Bio 20L Pilot Lab – MCD Biology, Biochemistry, Ecology & Evolutionary Bio – UCSC



Veronica Urabe Graduate Student UC Santa Cruz

Arina Favilla Graduate Student UC Santa Cruz

Tyler DeWitt **Graduate Student** UC Santa Cruz



Sustainable Materials REU PREP – Physics, Materials Science, Engineering – UCSC



Carolyn Gee Graduate Student UC Santa Cruz



John Davenport **Graduate Student** UC Santa Cruz

Cynthia Carrion Team Lead PhD Student

Asher Wasserman

Graduate Student

UC Santa Cruz

Team Lead



Doriane Weiler Graduate Student UC Santa Cruz

Ecology WEST– Ecology & Evolutionary Biology, Environmental Science – UCSC

Amanda Quirk

UC Santa Cruz

Graduate Student



Josephine Lesage Graduate Student UC Santa Cruz

Sara Gonzalez **Graduate Student** UC Santa Cruz



Computer Science WEST – Computer Science, Computer Engineering – UCSC



Suzanne da Camara **Graduate Student** UC Santa Cruz



Rebecca Rashkin Graduate Student UC Santa Cruz

Isotope WEST – Geochemistry, Ocean Science – UCSC



Kimberley Bitterwolf Graduate Student UC Santa Cruz

Mercedes Pozo Buil Graduate Student UC Santa Cruz



Michelle Drake Graduate Student UC Santa Cruz

AstroComNYC Workshop– Astrophysics, Astrostatistics – New York City



Chao-Ling Hung Assistant Professor Manhattan College



Mark Richardson Kate Storey-Fisher Postdoc Graduate Student American Museum New York University **Of Natural History**

Miao Li Postdoc Flatiron Institute

Pre-Optometry Professional Society Workshop – Vison Science, Optics – University of Houston

UT Austin Research Methods Course – Astronomy – University of Texas at Austin



Gareth Hastings Team Lead



Graduate Student

Zachary Vanderbosch

University of Texas at Austin

Graduate Student

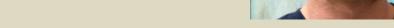
Sinclaire Manning

Graduate Student

University of Texas at Austin

Ashutosh Jnwali Graduate Student

Krista Beach Postdoc



Center for Adaptive Optics Summer School – Vision Science – UCSC



Hanieh Mirhajianmoghadam Graduate Student University of Houston



Suman Adhikari Graduate Student University of Houston

Mirramontes Arts & Sciences Program (MASP) Program for Excellence in Academics & Community (PEAC) – Astronomy – CU Boulder

Chris (Gilly) Gilbert Team Lead Graduate Student University of Colorado, Boulder

- Sam Van Kooten **Graduate Student** University of Colorado, Boulder
- Katherine McCormick Graduate Student University of Colorado, Boulder
- Daniel Everding Graduate Student University of Colorado, Boulder

Center for Astrophysics & Space Sciences REU PREP – Astronomy – UCSD





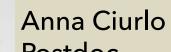
Maren Cosens Graduate Student UC San Diego











Michelle Consiglio



Keely Finkelstein

Raquel Martinez

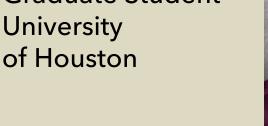
Graduate Student

Team Lead

Team Lead

Research Associate / Lecturer

University of Texas at Austin



University of Houston

University of Houston

Jessica Luna

at Austin

Graduate Student

University of Texas

Graduate Student

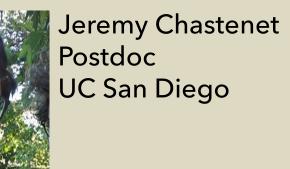


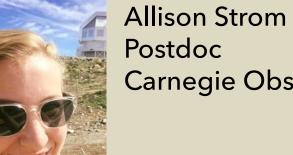
Postdoc UC Los Angeles



Summer Undergraduate Research Program – Astronomy – Carnegie Observatories







Carnegie Observatories

Summer Undergraduate Research Program – Astronomy – Carnegie Observatories

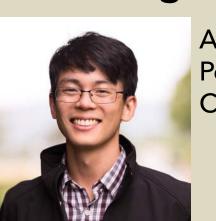
Rosalie McGurk Team Lead Postdoc Carnegie Observatories



Alexander Ji Postdoc Carnegie Observatories



Decker French Carnegie Observatories





Astronomy Lab for non-Astro Majors – Astronomy – University of South Carolina **Computational Mathematics, Science and Engineering –** Computational Methods – Michigan State University



Thomas Richardson Graduate Student 6 10 University of South Carolina







Adam Jacobs Team Lead Postdoc Michigan State University



University of Texas at Austin

Postdoc

TAURUS PREP – Astronomy - University of Texas at Austin





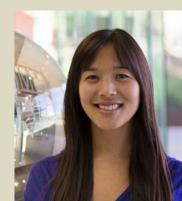


Justin Grace Graduate Student Michigan State University

Samuel Factor

Graduate Student University of Texas at Austin

Akamai PREP course – Physics & Optics – University of Hawaii at Hilo



Stacey Sueoka Team Lead **Optical Systems Engineer**, National Solar **Observatory/DKIST**

Elizabeth Koeman-Shields Postdoc University of Hawaii Manoa



Akamai PREP course – Computer Science – University of Hawaii at Hilo



Data Scientist

Geetanjali Rakshit Graduate Student UC Santa Cruz



UH Maui College Astronomy Lab – Astronomy - Maui



Team Lead Instructor University of Hawaii, Maui College

Dora Fohring Postdoc University of Hawaii Manoa



University of Arizona

The Professional Development Program (PDP) is offered by the Institute for Scientist & Engineer Educators (ISEE) at UCSC.

The PDP has been preparing STEM graduate students and postdocs to be leaders in effective and inclusive education since 2001. PDP participants learn pedagogical strategies supported by education research, with an emphasis on teaching fundamental disciplinary content and cognitive STEM practices via inquiry. All participants employ their training by working on a small team to design and teach an inquiry activity for undergraduate students.

The PDP is supported by a range of funding sources managed by ISEE. Summary of 2018 funding:

 UCSC Campus funding: Division of Social Science, Division of Physical & Biological Science, Division of Graduate Studies, Baskin School of Engineering.

- Howard Hughes Medical Institute grant
- NSF Astronomy grants
- Air Force Office of Scientific Research grant
- Graduate Assistance in Areas of National Need (GAANN) grant Carnegie Observatories

Learn more about ISEE: isee.ucsc.edu

