

UNDERGRADUATE HONORS

2020-21 Koret Scholars

Congratulations to the 2020-21 Koret Undergraduate Research Scholars

Bre Aguilar (TEN)

Major: Legal Studies BA

Mentor: Sheeva Sabati

Project: [Community-Relevant Curriculum of Histories: Ongoing Resistance of Marginalized Peoples in the Santa Cruz County](#)

Victoria Akinsanya (TEN)

Major: Business Mgmt Econ BA, Critical Race & Ethnic Studies BA

Mentor: Theresa Hice-Fromille (nee Johnson)

Project: [African American Tourism in a Pandemic](#)

Vanessa Alarcon (CARSON)

Major: Physics (Astrophysics) BS, Earth Sciences BS

Mentor: Cesar Rojas-Bravo

Project: [Calibration of Swope Survey Supernovae for Cosmological Analysis](#)

Jeyson Aldana (KRESGE)

Major: Latin Amer & Latino Studies BA, Sociology BA

Mentor: Michelle Gomez Parra

Project: [COLA, Intimacy, and the Politics of Solidarity](#)

Kathryn Anderson-Mullett (CARSON)

Major: Biology BA, Environmental Sciences BS

Mentor: Claudie Beaulieu

Project: [Predicting Occurrences of Marine Heatwaves using Random Forests](#)

Madison Bankosh (STEVENSON)

Major: Environmental Studies BA, Lat Am Stu/Sociology Comb BA

Mentor: Galina Hale

Project: Barriers to adopting healthful diets across cultural and socio-economic groups

Luis Bautista Castillo (STEVENSON)

Major: Physics BS

Mentor: Slawek Tulaczyk

Project: [Electrical Resistivity Meter](#)

Tobin Berger-Cahn (PORTER)

Major: Molec Cell Develop Biology BS

Mentor: Camilla Forsberg

Project: [Determining the single-cell multilineage capacity of developmentally restricted hematopoietic stem cells \(drHSCs\)](#)

Micah Braly (CARSON)

Major: Neuroscience BS

Mentor: Victoria Auerbuch Stone

Project: Characterization of C-terminus in the novel gene pif of *Yersinia pseudotuberculosis*

Lilianne Callahan (MERRILL)

Major: Applied Physics BS

Mentor: Slawek Tulacz

Project: Comparing Transient Electromagnetic Methods to Ground-Penetrating Radar Using Data from the McMurdo Ice Shelf

Diana Carranza (COWELL)

Major: Sociology BA

Mentor: Leslie Lopez

Project: We Belong: Perteneceemos

Anirudh Chaudhary (OAKES)

Major: Earth Sciences BS, Ecology and Evolution BS

Mentor: Rita Mehta

Project: Quantifying Teeth Curvature and Function in the Dual-Jaw System of *Gymnothorax mordax*

Collin Couch (CROWN)

Major: Physics (Astrophysics) BS

Mentor: Ryan Foley

Project: NuSTAR Constraints on the Solar Axion

Abigail Eduardo Espinosa (MERRILL)

Major: Sociology BA, Psychology BA

Mentor: Leslie Lopez

Project: Advocates' Voices, Practices, and Policies of Building Belonging

sagrario eusebio (OAKES)

Major: Sociology BA

Mentor: Steven McKay

Project: We Belong

Kyra Eyerman (PORTER)

Major: Molec Cell Develop Biology BS

Mentor: David Bernick

Project: PoPPY (Portable Progesterone Production in Yeast)

Norberto Garcia (MERRILL)

Major: Sociology BA

Mentor: Rebecca London

Project: "Mis Hijos, Su Futuro": Life as an Immigrant Parent to a K-5 Student During the COVID-19 Pandemic

Keanu Graham (KRESGE)

Major: Physics (Astrophysics) BS

Mentor: Tesla Jeltema

Project: Cooling in Clusters of Galaxies and the Relationship to Cluster Growth and Supermassive Black Holes

Marie Gredell (CARSON)

Major: Neuroscience BS

Mentor: Yi Zuo

Project: Effects of a Single-Cell Knockout of the Fragile X Mental Retardation Protein

Anthony Jacquez (STEVENSON)

Major: Psychology BA, Sociology BA

Mentor: Leslie Lopez

Project: Building Belonging: Analysis of Advocate narratives on Belonging in the Immigrant Community Santa Cruz

Crystal Kim (CARSON)

Major: Physics (Astrophysics) BS

Mentor: David Smith

Project: NuSTAR Constraints on the Solar Axion

Chelsea Kintz (CARSON)

Major: Ecology and Evolution BS

Mentor: Rita Mehta

Project: Prey Handling Behaviors in Great Blue Herons and Gray Herons

Samuel Lindquist (PORTER)

Major: Economics BA, Mathematics BA

Mentor: Galina Hale

Project: Does the News Affect Economic Outlook?

Tara McAteer (COWELL)

Major: Anthropology BA, Legal Studies BA

Mentor: Leslie Lopez

Project: Decoding Systemic Barriers

Wave Moretto (CARSON)

Major: Marine Biology BS

Mentor: Rita Mehta

Project: Effects of acute temperature change on California moray eel prey manipulation and transport behavior

Vanessa Morgan (CARSON)

Major: Anthropology BA, Environmental Studies BA

Mentor: Lars Fehren-Schmitz

Project: Chimpanzee (*Pan troglodytes*) Caller Goals in the Issa Valley

Rafael Nunez (CARSON)

Major: Physics (Astrophysics) BS

Mentor: Raja GuhaThakurta

Project: Spectroscopic Classification of Photometrically Variable Stars in Andromeda

Nishaant Pandita (STEVENSON)

Major: Art & Des: Games & Playable BA

Mentor: A. M. Darke

Project: Wanderlust!

Marlen Reyes (OAKES)

Major: Sociology BA

Mentor: Steven McKay

Project: We Belong: Perteneceemos

Samantha Rozal (NINE)

Major: Env Studies / Biol Combined BA

Mentor: Robin Dunkin

Project: Characterization of Geographic and Temporal Patterns of Marine Debris on Santa Cruz and Monterey County Beaches

Gabrielle Serna (KRESGE)

Major: Art & Des: Games & Playable BA

Mentor: micha cárdenas

Project: Oceanic

Payton Sime (COWELL)

Major: Anthropology BA, Ecology and Evolution BS

Mentor: Vicky Oelze

Project: The Temporal and Spatial Availability of Chimpanzee (*Pan troglodytes schweinfurthii*) Prey Species ...

Allegra Stahl (CROWN)

Major: Biology BA, Cognitive Science BS

Mentor: Rita Mehta

Project: Effects of acute temperature change on California moray eel prey manipulation and transport behavior

Erin Steckline (COWELL)

Major: Psychology BA

Mentor: Heather Bullock

Project: Experiences of Women in Intramural Sports and Esports

Connor Sweeney (STEVENSON)

Major: Physics (Astrophysics) BS

Mentor: Stefano Profumo

Project: Cosmic-ray Diffusion due to Pulsars in the Milky Way

Trey Vera (CROWN)

Major: Mathematics BA, Physics BS

Mentor: Stefano Profumo

Project: Cosmic-ray Diffusion due to Pulsars in the Milky Way

Ava Webber (CROWN)

Major: Physics (Astrophysics) BS

Mentor: Stefano Profumo

Project: Capture of primordial black holes in extrasolar systems

Edward Wu (STEVENSON)

Major: Molec Cell Develop Biology BS

Mentor: Ali Shariati

Project: Determining cell cycle regulation in pluripotent stem cells with functional CRISPR screening