2017-18 Koret Undergraduate Research Scholars:

Valeria Jacqueline Alonso Blanco (CROWN) Major: Psychology BA Mentor: Rebecca Covarrubias Project: The role of familismo on Latinx first-generation college students' academic motivation and resilience

Gabriella Alvarez (TEN) Major: Biochemistry & Molecular Bio BS Mentor: Ansari Aleem Project: Investigating the Active Site of 12-Lipoxygenase and the Role of pi-pi Interactions

Garrett Badano (PORTER) Major: Environmental Studies BA Mentor: Weixin Cheng Project: Alternative Approaches to pH & Nutrient Management in Hydroponic Blueberry Production

Carmelle Bareket-Shavit (STEVENSON) Major: Psychology BA Mentor: Audun Dahl Project: *The Role of Cognitive Biases in Identifying and Disciplining Plagiarism*

Aleya Caballero (KRESGE) Major: Art BA Mentor: Christie Mccullen Project: *Brown Girl Pissed*

Noe Castaneda (CARSON) Major: Marine Biology BS Mentor: Rita Mehta Project: *Comparative feeding mechanics in a trophic generalist and a trophic specialist*

Jimmy Chan (CROWN) Major: Bioengineering BS Mentor: Manel Camps Project: Identification of temozolomide resistance markers using matched pairs of sensitive and resistant glioma cell lines.

John Contreras (COWELL) Major: Art BA Mentor: Laurie Palmer Project: Art Therapy Ethnographic Study

Fabiana De Lima (STEVENSON) Major: Psychology BA Mentor: Rebecca Covarrubias Project: Documenting the Facets of Family Achievement Guilt for Latinx First-Generation Students

Sarah Deleon (COWELL) Major: Biochemistry & Molecular Bio BS Mentor: Fitnat Yildiz Project: Exploring the Role of the Vibrio exopolysaccharide (VPS) degradation enzyme, RbmB, in VPS production and biofilm formation in Vibrio Cholerae Joshua Dillen (COWELL) Major: Biochemistry & Molecular Bio BS Mentor: Rebecca DuBois Project: Development of a Respiratory Syncytial Virus Attachment Glycoprotein Subunit Vaccine

Katherine Dunne (CROWN) Major: Physics BS Mentor: Jason Nielsen Project: ATLAS Pixel electronics and cable services for the High Luminosity LHC upgrade

Eghosa Edogun (OAKES) Major: Molec Cell Develop Biology BS Mentor: Manuel Ares Project: Inducing Variable Expression of PRP5 gene in Saccharomyces Cerevisiae

Gabriel Louis Embrey (PORTER) Major: History BA Mentor: Juned Shaikh Project: Caste Class and the Left, an Inquiry into the Ideological roots of leftist praxis pertaining to caste and class

Alfred Freeberg (CARSON) Major: Chemistry BS Mentor: Peter Weiss Project: Characterizing the process of the conversion of dimethylmercury to monomethyl mercury in fog

Natalie Friedman (COWELL) Major: Cognitive Science BS Mentor: Leila Takayama Project: Achieving a Feeling of Mobility and Exploration Through Telepresence

Christopher Garcia (COWELL) Major: Linguistics BA Mentor: Maziar Toosarvandani Project: Multiple Questions In Santiago Laxopa Zapotec

Matheson Gee (CARSON) Major: Molec Cell Develop Biology BS Mentor: Michael Stone Project: Understanding the effects of G-Quadruplex binding ligands on G-quadruplexes in Telomeric Displacement Loops

Crystal Gomez (MERRILL) Major: Sociology BA Mentor: Rebecca London Project: Understanding the Role School Systems Play in the School-to-Prison Pipeline

Wilfrido Hernandez Flores (CARSON) Major: Community Studies BA Mentor: Rebecca Covarrubias Project: Family Achievement Guilt and First Generation College Students

Wynn Jacobson-Galan (CROWN) Major: Physics (Astrophysics) BS Mentor: Ryan Foley Project: A Spectroscopic Analysis of Type Iax Supernova

Amy Leslie (NINE) Major: Biochemistry & Molecular Bio BS Mentor: Alan Zahler Project: Branchpoint Mapping in C. elegans

Erik Li (NINE) Major: Molec Cell Develop Biology BS Mentor: Jeremy Sanford Project: Chacterizing Splicing Sensitive Disease-Causing Mutation in Exon 6 of the Fabry Disease Gene, Galactosidase A.

Wendy Lin (TEN) Major: Biology BS Mentor: Peter Weiss-Penzias Project: Testing coastal Lichen species as a bioindicator of atmospheric Total Mercury and Monomethylmercury in Central California

Ricardo Lopez (STEVENSON) Major: Art BA Mentor: Karolina Karlic Project: American Acculturation: A photography multimedia sculptural project

Giovanni Magana (OAKES) Major: Electrical Engineering BS Mentor: Joel Kubby Project: Hyperspectral Imaging UAV for Thermal Energy Detection and Precision Agriculture

Steffen Mahnke (PORTER) Major: Chemistry BS Mentor: William Hollingsworth Project: Fractionation and Characterization of poly[3-(potassium-4-butanoate) thiophene-2,5-diyl] in Conjugated Polyelectrolyte Complexes

Josselyne Morales (PORTER) Major: Art BA Mentor: Karolina Karlic Project: American Acculturation: A photography multimedia sculptural project

Tyler Myers (CARSON) Major: Bioengineering BS Mentor: Angela Brooks Project: High-throughput screen for oncogenic exon skipping events in immortalized tracheobronchial epithelial cells

Jessica Ness (COWELL) Major: Literature BA Mentor: Wlad Godzich Project: Age and Agency: Translating Fanon and Poe

Hermes Padilla (KRESGE) Major: Community Studies BA Mentor: Steve McKay Project: Crisis on a Hill: A Study of On-Campus Student Housing Experiences

Rosanai Paniagua (MERRILL) Major: Latin Amer & Latino Studies BA Mentor: Roxanna Villalobos Project: Central Valley Youth and Civic Life

Jessica Parra Moya (KRESGE) Major: Literature BA Mentor: Zac and Amanda Zimmer and Smith Project: *The Reconciliation of Heterogeneity in the Conscious of the Mestiza/o*

Bradley Puckett (PORTER) Major: Computer Science BS Mentor: Chen Qian Project: *Private Queries for Internet of Things*

Socorro Ramirez-Gamino (NINE) Major: LALS/Sociology Comb BA Mentor: Adrian Felix Project: (*Re*)membering Citizenship: Memories of Political Membership from 'Anchor Babies' & 'Derivative Citizens'

Kyle Rocha (OAKES) Major: Applied Physics BS Mentor: Josiah Schwab Project: The Effect of Minor Isotopes on Accretion-Induced Collapse

Gavin Rockwood (CARSON) Major: Physics (Astrophysics) BS Mentor: Adam Coogan Project: Distinguishing Between Pulsars and Dark Matter as a Source of Positron Excess

Rosa Sanchez (CARSON) Major: Spanish Studies BA Mentor: Sylvanna Falcon Project: Youth Identity Formation Amongst Indigenous Oaxaqueños

Megan Schnabel (COWELL) Major: Psychology BA Mentor: Sarah Harsey Project: The Female Gaze: Analyzing Queer Women's Objectification of Women

James Severson (COWELL) Major: Cognitive Science BS Mentor: Edward [Ted] Warburton Project: Negotiating Bodily Difference: Cognition and Physically-Integrated Dance

Ethan Slattery (CARSON) Major: Computer Engineering BS Mentor: Daniel Costa Project: Seal Heart and Activity Tracker (SealHAT)

Adam Smith (CROWN) Major: Physics (Astrophysics) BS Mentor: Jonathan Fortney Project: Confusion in Understanding the Atmospheres of Giant Planets in Reflected Light in Color-Color Space

Kavin Subramanyam (NINE) Major: Mathematics BA Mentor: Jordan Eizenga Project: Effective Markov Sampling in Pan-Genome Graphs for Genome Inference

Sierra Surabian (KRESGE) Major: Environmental Studies BA Mentor: Michael Loik Project: *Phytoremediation of Copper-Contaminated Soils Using Hemp* Natalia Ubilla (MERRILL) Major: Biochemistry & Molecular Bio BS Mentor: Kevin Schilling Project: The Role of Glycosylation in the Prion Protein's Neuroprotective Self-Regulation

Kateryna Voitiuk (KRESGE) Major: Computer Engineering BS Mentor: Mircea Teodorescu Project: Anatomically Inspired Bioreactor for Growing Brain Organoids

Andy Wang (KRESGE) Major: Art & Des: Games & Playable BA Mentor: Joseph Osborn Project: Automated Game Design Learning

Sarah Wikle (TEN) Major: Community Studies BA Mentor: Miriam Greenberg Project: Digital Stories Archive, No Place Like Home

Natalie Wollenweber (MERRILL) Major: Literature BA Mentor: Deanna Shemek Project: *Female Warriors: Connecting the 16th Century to the Now*

Kimberly Zuniga (OAKES) Major: Psychology BA Mentor: Rebecca Covarrubias Project: Understanding the Emotional Responses and Resilience of Youth of Color Who Confront Community Stressors