Undergraduate Student Research Support Program
AY 2021-22 Report

The COAST Undergraduate Student Research Support Program provides $2,500 annually to every campus to stimulate undergraduate student engagement in faculty-mentored marine, coastal and coastal watershed related research. This year, we were able to send an additional $2,500 to most campuses to make additional awards. Through this program, COAST aims to increase the number of CSU undergraduate students participating in research and provide them with the opportunity to obtain the skills necessary to join a highly skilled and technologically advanced workforce. COAST also encourages faculty members to use the program to meaningfully engage first and second year undergraduate students as well as historically underrepresented minority, low-income and first-generation college students.

Since the program was launched in AY 2014-15, it has supported 641 undergraduate students, including 103 this year at 23 different campuses. COAST relies upon officially appointed Campus Representatives to implement the program on their campuses. The Representatives at each campus create their own application process, accept applications and allocates funding. Some awards may include unspent funds from previous years. Campuses marked with an * provided match funding.

<table>
<thead>
<tr>
<th>Campus</th>
<th>Recipient</th>
<th>Department/Program</th>
<th>Advisor</th>
<th>Project Title</th>
<th>Award Amount (Campus Match)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bakersfield</td>
<td>Kaitlin Macaranas</td>
<td>Biology</td>
<td>Dr. Rae McNeish</td>
<td>Aquatic and terrestrial landscape features affect the atmospheric deposition of microplastics and nutrients</td>
<td>$4,431</td>
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<td></td>
<td>Natalie Nunez</td>
<td>Biology</td>
<td>Dr. Rae McNeish</td>
<td>Impact of water scarcity and drought conditions on plastic and natural leaf degradation</td>
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<td>Channel Islands</td>
<td>Ariana Arias</td>
<td>Environmental Science and Resource Management</td>
<td>Dr. Dan Reineman</td>
<td>Microplastics in SoCal sandy beaches</td>
<td>$1,000</td>
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</table>
| Campus          | Recipient     | Department/Program                                      | Advisor             | Project Title                                        | Award Amount
|-----------------|---------------|--------------------------------------------------------|---------------------|------------------------------------------------------|----------------
<p>| Channel Islands | Sean Haran    | Environmental Science and Resource Management         | Dr. Dan Reineman    | Surfers Point resource quality monitoring          | $350           |
|                 | Joong Soo Kim | Environmental Science and Resource Management         | Dr. Sean Anderson   | Microplastics in California’s sandy beaches         | $895           |
|                 | Veronica Simental | Environmental Science and Resource Management | Dr. Sean Anderson | Water quality and microplasticity of Conejo Creek Tributary | $215           |
|                 | Kurt Skowronsni | Environmental Science and Resource Management        | Dr. Dan Reineman    | Beach clean up day microplastics                    | $1,000         |
|                 | Alexandria Swims | Environmental Science and Resource Management     | Dr. Sean Anderson   | Conejo Creek Valley water quality                   | $750           |
| Chico           | Carlos Melchor | Chemistry                                              | Dr. Monica So       | Cleaning up oil-contaminated water with metal-organic framework-coated melamine sponges | $1,250         |
|                 | Madison Payne  | Biological Sciences                                    | Dr. David Stachura  | Examining the negative effects of Camp Fire toxins on the immune system | $1,797         |
|                 | Adil Sayed     | Earth and Environmental Sciences                      | Dr. Sandrine Matiasek | Distribution and seasonal variability of metal accumulation in bioswale plants | $2,066         |
| Dominguez Hills | Kelsie Kaufman | Biology                                                | Dr. Samantha Leigh  | Pervasiveness of microplastics in the Southern California Bight | $1,750         |
|                 | Kevin Mosqueda | Biology                                                | Dr. Samantha Leigh  | Microplastic pervasiveness in southern California marine ecosystems | $1,750         |
|                 | Diego Rodriguez | Biology                                           | Dr. Charlene McCord | The impacts of microfragmentation and thermal stress on massive coral | $1,500         |</p>
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<tbody>
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<td>East Bay*</td>
<td>Tiffany Hopkins</td>
<td>Earth and Environmental Science</td>
<td>Dr. Patty Oikawa</td>
<td>A study of the phenology of a tidal wetland system</td>
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<td>Hamed Jalala</td>
<td>Biological Sciences</td>
<td>Dr. James Murray</td>
<td>Magneto-sensory orientation discrepancies across different populations of the sea slug <em>Tritonia tetraquestra</em></td>
<td>$2,000 ($2,500)</td>
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<td>Jackelyn Marroquin</td>
<td>Public Health</td>
<td>Dr. Patty Oikawa</td>
<td>A study of Eden landing tidal wetland ecosystem phenology</td>
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<td>Fresno</td>
<td>Yugjeet Grewal</td>
<td>Biology</td>
<td>Dr. Steve Blumenshine</td>
<td>Estimating stable isotope incorporation rate in juvenile Chinook salmon</td>
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<td>Caolinn Hardy</td>
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<td>Dr. Steve Blumenshine</td>
<td>Chinook salmon conservation data analysis</td>
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<td>Harleen Kaur</td>
<td>Biology</td>
<td>Dr. David Lent</td>
<td>A comparison of the lateral pallium in <em>Muraenidae</em> species to determine the relationship between spatial memory and habitat complexity</td>
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<td>Nicholas Felix</td>
<td>Biology</td>
<td>Dr. Kristy Forsgren</td>
<td>Histopathology of flatfishes from Orange County Sanitation District reference and wastewater outfall sites</td>
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<td>Lizbeth Gonzales</td>
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<td>Dr. Jennifer Burnaford</td>
<td>Potential effects of COVID-related human activity on mussel population structure: comparisons between MPA and non-MPA shores</td>
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<td>Brianna Herrera</td>
<td>Biology</td>
<td>Dr. Danielle Zacherl</td>
<td>Impact of varying substrates and human-activity levels on condition index of <em>Ostrea lurida</em> and <em>Mytilus galloprovincialis</em></td>
<td>$750</td>
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<td>Fullerton*</td>
<td>Justin Hertel</td>
<td>Biology</td>
<td>Dr. Erin (Misty) Paig-Tran</td>
<td>Comparing methods of age determination in <em>Sardinaops sagax</em></td>
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<td>Joann Lam</td>
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<td>Trina Miller</td>
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<td>Dr. Jennifer Burnaford</td>
<td>Trash surveys (quantity, types, and retention of trash) in the rocky intertidal zone</td>
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<td>Renee Serna</td>
<td>Biology</td>
<td>Dr. Ryan Walter</td>
<td>Drift on: comparing seasonal and annual genetic variation of restored eelgrass beds in Newport Bay, CA</td>
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<td>Fullerton*</td>
<td>Jennifer Telish</td>
<td>Biology</td>
<td>Dr. Kristy Forsgren</td>
<td>Proteomic analysis of androgenic regulation of the transition between primary and secondary ovarian follicle development in coho salmon (<em>Oncorhynchus kisutch</em>)</td>
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<td>Kim Yumul</td>
<td>Biology</td>
<td>Dr. Danielle Zacherl</td>
<td>Effects of <em>Watersipora</em> spp. on the recruitment of the native Olympia oyster, <em>Ostrea lurida</em></td>
<td>$750 ($1,000)</td>
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<td></td>
<td>Cody Carlson</td>
<td>Fisheries Biology</td>
<td>Dr. Rafael Cuevas Uribe</td>
<td>Integrated multi-trophic aquaculture (IMTA)</td>
<td>$500</td>
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<td>Stuart Goran</td>
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<td>Dr. Tamara Barriquand</td>
<td>The effects of offshore upwelling on nearshore biological productivity off the Trinidad headline</td>
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<td>Katie Hoy</td>
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<td>Emma Modrick</td>
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<td>Time series analysis of acoustic doppler current profiler in Humboldt Bay</td>
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<td>Humboldt</td>
<td>Daniel Montoya</td>
<td>Fisheries Biology</td>
<td>Dr. Jose Marin Jarrin</td>
<td>Quantifying shotgun shell and wad waste on the shorelines of Humboldt Bay</td>
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<td>Maya Noble</td>
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<td>Dr. Paul Bourdeau</td>
<td>The effects of abiotic and biotic turbidity on predatory behaviors of the Pacific rock crab</td>
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<td>David Zeitz</td>
<td>Chemistry</td>
<td>Dr. Claire Till</td>
<td>Analytical determination of chlorophyll in seawater for an upper division instrumentation course</td>
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<td>Growing <em>Nereocystis lutkeana</em> under two light technologies (LED and Fluorescent)</td>
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<td>Long Beach</td>
<td>Priscilla Alvarez</td>
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<td>Dr. Christine Whitcraft</td>
<td>Seasonal variability in the diet of the federally endangered California least tern</td>
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<td>Felicity Erikson</td>
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<td>Dr. Chris Lowe</td>
<td>Drone pilot licensing for Felicity, Javier and Taylor</td>
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<td>Javier Mata</td>
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<td>Dr. Chris Lowe</td>
<td>Drone pilot licensing for Felicity, Javier and Taylor</td>
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<td>Long Beach</td>
<td>Alex Mendelson</td>
<td>Biological Sciences</td>
<td>Dr. Bruno Pernet</td>
<td>Are larvae of <em>Ficopomatus enigmaticus</em> either “founders” or “aggregators”, and does the proportion of founders vs. aggregators differ among families?</td>
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<tr>
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<td>Keomonyroth Nuon</td>
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<td>Dr. Bruno Pernet</td>
<td>Are larvae of <em>Ficopomatus enigmaticus</em> either “founders” or “aggregators”, and does the proportion of founders vs. aggregators differ among families?</td>
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<td>Cameron Powell</td>
<td>Biological Sciences</td>
<td>Dr. Darren Johnson</td>
<td>Effects of ocean acidification on energy balance and productivity of <em>Macrocystis pyrifera</em></td>
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<td>Hannah Sherrod</td>
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<td>Dr. Erika Holland</td>
<td>Detection and characterization of microplastics in whale feces</td>
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<td>Amanda Tsai</td>
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<td>Dr. Jesse Dillon</td>
<td>Culture-based investigations of bacterial communities in a novel intestinal organ in the heart urchin <em>Brisaster townsendi</em></td>
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<td>Moses Villeda</td>
<td>Biomedical Engineering</td>
<td>Dr. Siavash Ahrar</td>
<td>Milifluidic platforms for the cultivation of <em>Dendraster excentricus</em></td>
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<td>Los Angeles</td>
<td>Yvanna Escobar</td>
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<td>Dr. Andres Aguilar</td>
<td>Sequencing and assembly of the Pacific sanddab genome</td>
<td>$700</td>
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<td>Athena Lodevico</td>
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<td>Dr. Andres Aguilar</td>
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<td>Jennifer Michel</td>
<td>Geosciences and Environment</td>
<td>Dr. Michael Beland</td>
<td>Modeling tidal marsh canopy heights and stem densities using small unmanned aerial systems and structure-from-motion</td>
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<td>Oscar Murillo</td>
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<td>Dr. Michael Beland</td>
<td>Using small unmanned aerial systems and photogrammetry techniques to generate bare-earth digital elevation models in a densely vegetated salt marsh</td>
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<td>Vo Nguyen</td>
<td>Chemistry and Biochemistry</td>
<td>Dr. Petr Vozka</td>
<td>Mapping biodegradation of subsurface of oil in Huntington Beach sands</td>
<td>$700</td>
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<td>Maritime*</td>
<td>Jacques Descouts</td>
<td>Engineering</td>
<td>Dr. Tomas Oppenheimer</td>
<td>Oceanographic research buoy</td>
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<td>Kyle Hebert</td>
<td>Marine Transportation</td>
<td>Dr. Jennifer Murphy</td>
<td>The relationship between ammonium concentrations and tidal current fluctuations through the Carquinez Strait: part 2</td>
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<td>Maritime*</td>
<td>Morgan Illman</td>
<td>Sciences and Mathematics</td>
<td>Dr. Alex Parker</td>
<td>Collaborative proposal: estimating real-time primary production: applying the light-productivity model to Cal Maritime buoy data</td>
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<td>Ella Jones</td>
<td>Sciences and Mathematics</td>
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<td>Collaborative proposal: estimating real-time primary production: applying the light-productivity model to Cal Maritime buoy data</td>
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<td>Margaret Malmquist-West</td>
<td>Engineering/ Sciences and Mathematics</td>
<td>Dr. Tomas Oppenheim</td>
<td>RSCA stereo camera calibration</td>
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<td>Dominic Terrusa</td>
<td>Oceanography</td>
<td>Dr. Alex Parker</td>
<td>Collaborative proposal: estimating real-time primary production: applying the light-productivity model to Cal Maritime buoy data</td>
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<td>Monterey Bay</td>
<td>Leta Dawson</td>
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<td>Dr. Alison Haupt</td>
<td>Habitat cover and its effects on abalone populations</td>
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<td>Hannah Kim</td>
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<td>Dr. Cheryl Logan</td>
<td>Exploring mechanisms responsible for thermal tolerance in Galapagos corals</td>
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<td>Intertidal relationship between algal cover and abundance of purple sea urchins, <em>Strongylocentrotus purpuratus</em>, on the Monterey Peninsula</td>
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<td>Emily Vidusic</td>
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<td>Dr. Alison Haupt</td>
<td>A comparison of multiple methods to measure purple sea urchin population densities within the Monterey Peninsula intertidal</td>
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<td>CBASS: coral bleaching autonomous stress system</td>
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<td>Spencer Winter</td>
<td>Biology</td>
<td>Dr. Zurine De Miguel</td>
<td>Speckled sanddab cell proliferation during adult neurogenesis</td>
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<td>Northridge</td>
<td>Daniel Carcamo</td>
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<td>Dr. Mark Steele</td>
<td>Evaluating the nonconsumptive effects of giant sea bass</td>
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<td>Sofie Gronborg Lund Hansen</td>
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<td>Dr. Mark Steele</td>
<td>Management-based differences in the dietary niches of California reef fishes</td>
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<td>Pomona</td>
<td>Daniel Aguilar</td>
<td>Biological Sciences</td>
<td>Dr. Jeremy Claisse</td>
<td>Assessing the variation in gut length among Garibaldi with comparison to other damselfish (<em>Pomacentridae</em>) and marine fish species</td>
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<td>Sacramento</td>
<td>Lina Alegria</td>
<td>Biological Sciences</td>
<td>Dr. Lani Gleason</td>
<td>Growth and survival of juvenile red abalone <em>Haliotis rufescens</em> in response to heat stress and starvation</td>
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<td>Alivia De Luze</td>
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<td>Dr. Timothy Davidson</td>
<td>The effects of marine wood-borers on red mangrove (<em>Rhizophora mangle</em>) in native and non-native habitats</td>
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<td>Hanna Franklin</td>
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<td>Investigating the transcriptomic responses to heat stress and starvation in the economically important red abalone <em>Haliotis rufescens</em></td>
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<td>Jazmine Harvey</td>
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<td>Identifying population-specific DNA methylation patterns in the marine snail <em>Tegula funebralis</em> to examine thermal tolerance</td>
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<td>Jessica Hopper</td>
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<td>Otolith examination in striped bass</td>
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<td>Bear Waymire</td>
<td>Biological Sciences</td>
<td>Dr. Ron Coleman</td>
<td>Fish in American River naturally die after spawning - what happens next?</td>
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<td>San</td>
<td>Manuel Madrigal</td>
<td>Biology</td>
<td>Dr. Tomasz Owerkowicz</td>
<td>Effects of hypoxia and hyperoxia on cardiac output distribution in the American alligator (<em>Alligator mississippiensis</em>)</td>
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<td>Bernardino</td>
<td>Liset Maldonado</td>
<td>Biology</td>
<td>Dr. Joseph Heras</td>
<td>Identifying gene candidates associated with depth adaptations across multiple species of marine rockfishes (genus: <em>Sebastes</em>)</td>
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<td>Crisila Aban</td>
<td>Biology</td>
<td>Dr. Kevin Hovel</td>
<td>The California spiny lobster’s prey-choice when presented with 3 ecological relevant prey species: <em>A. senhousia</em>, <em>Mytilus species</em>, and <em>Strongylocentrotus purpuratus</em></td>
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<td>San</td>
<td>Megan Canchola</td>
<td>Biology</td>
<td>Dr. Matthew Edwards</td>
<td>The effects of nutrient concentration on nitrogen uptake in <em>Ulva lactuca</em> as it relates to bioremediation in coastal watersheds</td>
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<td>Diego</td>
<td>Mia Gil</td>
<td>Civil, Construction and Environmental Engineering</td>
<td>Dr. Natalie Mladenov</td>
<td>Evaluating leaching and degradation of compounds from microfibers using fluorescence spectroscopy</td>
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<td>San Diego</td>
<td>Nadia Merkel</td>
<td>Biology</td>
<td>Dr. Brian Hentschel</td>
<td>Movement and host selection by a commensal polychaete living on sea urchins</td>
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<td>Tina Tran</td>
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<td>Dr. Eunha Hoh</td>
<td>Microplastics degradation in the environment and its effects</td>
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<td>San Francisco</td>
<td>Elora Chatain</td>
<td>Biology</td>
<td>Dr. Sarah Cohen</td>
<td>Investigation of pedicellariae distribution among genetic lineages of Leptasterias species</td>
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<td>What is the abundance and size class distribution of Pismo clams along Pismo Beach?</td>
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<td>Combating ocean acidification by use of silica nanotubes for carbon dioxide sorption</td>
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