



Cal Poly Humboldt  
Office of Research  
& Sponsored Programs



## Program Quick Links

- [Event Website](#)
- [General Event Schedule](#)
- [Competition Presentation Schedule](#) (use this link for up-to-date info!)
  - Searchable | Please make a copy or download to filter or sort
- [Map of Campus](#)

## General Event Schedule

### Friday 4/25/25

- 9am-12pm: Registration, Nelson Hall East Room 102
- 9am-12pm: Brunch Available at the Depot
  - Pick up your brunch voucher when you complete registration!
- 11:15am: Opening Remarks, Gutswurrak Student Activities Center Room 225 "Kate Buchanan Room"
- 12-4pm: [Student Presentations](#)
- 3:30-5pm: Community-Building Event at the Redwood Bowl Plaza
  - FREE: food trucks, zorb soccer, rock climbing wall, axe throwing, and indoor skate rink + DJ

### Saturday 4/26/25

- 7:00am-8:30am Late Registration, Nelson Hall East Room 102
- 7:30am-10:30am: Brunch Available at the Depot
  - Pick up your brunch voucher when you complete registration!
- 8:30am-12:30pm: [Student Presentations](#)
- 12-1:15pm: Lunch, Gutswurrak Student Activities Center Room 225 "Kate Buchanan Room"
- 1:30-2:30pm: Awards Ceremony, Gutswurrak Student Activities Center Room 225 "Kate Buchanan Room"

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# A Message from Dr. Mildred García

*Chancellor*

*The California State University*



Welcome to California State Polytechnic University, Humboldt and the 39th Annual CSU Student Research Competition.

Today's contestants are part of a rich tradition of applied research, scholarship and creative activities across the CSU that continues to garner national acclaim. This year more than half of the CSU's institutions have received a new Carnegie designation known as "Research Colleges and Universities" or "RCU," announced by the American Council on Education and the Carnegie Foundation for the Advancement of Teaching. Twenty-one of 23 CSU universities have now been recognized by the Carnegie classification framework.

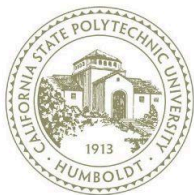
With this recognition, our universities have been lauded for their focus on engaging undergraduate students and faculty in hands-on, cutting-edge research and projects that address California's most pressing challenges while preparing students to become leaders in their fields. All totaled, the CSU secured more than \$800 million in public and private grants in 2022-23 alone to support vital research in the areas of public health, mathematics, the arts, humanities, sciences, education, business, engineering and more.

Central to this tradition, for nearly four decades the CSU Student Research Competition has showcased excellence in research and creative activity and recognized outstanding achievements from scholars across all 23 CSU campuses. Congratulations on being selected from a deep and talented applicant pool and for so ably demonstrating the groundbreaking work conducted across our Golden State.

I encourage you to fully embrace this opportunity to engage with attendees from diverse backgrounds and academic disciplines, to sharpen your analytical skills and to draw inspiration for your future achievements. My deep appreciation also goes to the faculty and staff who continue to guide and mentor the CSU's students in their academic pursuits, helping them to discover their boundless talents and potential.

Thank you all for representing the CSU with such distinction.

# A Message from Dr. Michael E. Spagna



March 26, 2025

Dear Participants, Faculty, and Guests,

It is my great honor to welcome you to the 39th Annual California State University (CSU) Student Research Competition at Cal Poly Humboldt. We are thrilled to host this prestigious event, celebrating the remarkable research, scholarship, and creative activities of students from across the CSU system.

At Cal Poly Humboldt, we take immense pride in fostering an academic environment where discovery, innovation, and intellectual curiosity thrive. Research plays a crucial role in shaping the future of our communities, industries, and the world at large. This competition is a testament to the CSU's commitment to academic excellence and hands-on learning, providing students with an invaluable opportunity to present their work, engage with peers and mentors, and contribute to meaningful discussions in their fields.

This year, we celebrate not only the hard work and dedication of our student researchers but also the vital role that faculty mentors and staff play in guiding and supporting their journeys. Your mentorship, encouragement, and commitment to student success are truly commendable, and we recognize the lasting impact you have on shaping the next generation of leaders and innovators.

To all the students presenting their research, congratulations on being selected to compete at this distinguished event. Your efforts exemplify the ingenuity and perseverance that define the CSU student experience. I encourage you to fully embrace this moment—engage with scholars from diverse disciplines, challenge yourselves, and take pride in your accomplishments.

Thank you to everyone involved in making this event possible. Your dedication to advancing knowledge and fostering student achievement is an inspiration. Best of luck to all participants, and I look forward to witnessing the extraordinary contributions you bring to this year's competition.

Sincerely,

A handwritten signature in black ink, reading "Michael E. Spagna". The signature is fluid and cursive, with the first name "Michael" and last name "Spagna" clearly legible.

Michael E. Spagna, Ph.D.  
Interim President, Cal Poly Humboldt



# A Message from Dr. Jenn Capps



## Provost and Vice President for Academic Affairs

Welcome to the 39th Annual California State University Student Research Competition, proudly hosted this year by Cal Poly Humboldt! Please take some time while you are here to immerse yourselves in the unique environment Humboldt has to offer, where our redwood trees are our skyscrapers and access to water, art, and our culturally rich communities is thriving. We're thrilled to highlight the innovative student research and creative endeavors emerging from the CSU's vibrant and diverse academic community, which is truly a reflection of our focus on hands-on learning.

Every student presentation is backed by the unwavering support of faculty, staff, mentors, families, and friends. Their encouragement has helped shape these students into scholars whose work is making meaningful contributions to their fields, communities, and the world.

At Cal Poly Humboldt, we celebrate the vital role of student research mentors through our strong commitment to the Teacher-Scholar model. This approach reflects our dedication to creating a learning environment where faculty blend teaching with scholarship, enriching our students' academic journeys.

I want to extend my heartfelt thanks to the university collaborators whose hard work has made this event possible. Special thanks to Kacie Flynn, Associate Vice President for Research and Executive Director of the Cal Poly Humboldt Sponsored Programs Foundation, Sam Caudill, CSU SRC Campus Coordinator, the outstanding teams in the Office of Research and Sponsored Programs, Cal Poly Humboldt's Conference and Event Services, and all our amazing campus partners.

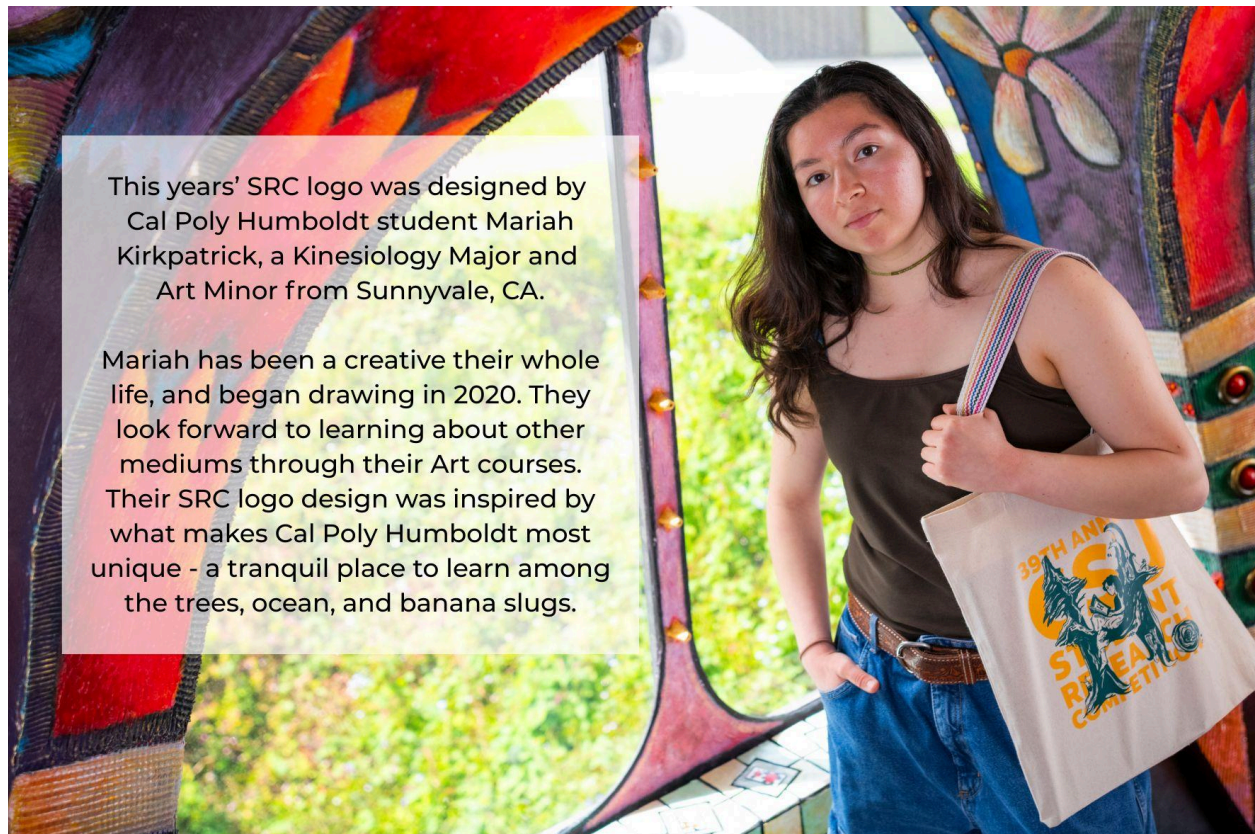
To all participants: Congratulations on your dedication and achievement! This competition is not only a celebration of your intellectual drive and determination but also a chance to engage with fellow student researchers who share your passion for discovery. Take in every moment, enjoy the experience, and let your work open doors to future innovations. Best of luck! Your academic and professional successes give me hope for a better future. Thank you!

A handwritten signature in blue ink, appearing to read "Jenn Capps".

Jenn Capps, Ph.D.  
Provost and Vice President of Academic Affairs

# Gratitudes and Appreciations

## 2025 CSU SRC Logo



## 2025 CSU SRC Trophies

This years' handcrafted competition trophies are one-of-a-kind! Humboldt Engineering students in the University's makerspaces dedicated thousands of hours to creating 20 category-specific trophies (two for each of the 10 competition categories), along with plaques for second-place winners and coasters for honorable mentions. Each trophy reflects both the spirit of Humboldt and the research categories they represent. The project was the result of a collaboration between the Cal Poly Humboldt Sponsored Programs Foundation, students in *Engineering 205: Intro to Design*, and Instructor Lonny Grafman, who provided mentorship and guidance. We extend our deepest gratitude to Lonny and the students whose dedication and craftsmanship brought these trophies to life!

- **Education trophy** - Noelani Anderson, Corey Lee, Jack Prieto, Miller Smith
- **Creative Arts and Design trophy** - Isaac Crockett, Chloe Hammond, Chris Larsen-Gould, Ivan James Sanchez
- **Health, Nutrition, and Clinical Sciences trophy** - Samuel Holtman, Jonathan Luu, Jake Nguyen, Daniel Rodriguez
- **Engineering and Computer Science trophy** - Carlos Hernandez, Kaz Kinoshita, Peter Nganga, Quinn Simard
- **Biological and Agricultural Sciences trophy** - Jacob Figen, Geronimo Valenzuela, James Woodson
- **Behavioral, Social Sciences & Public Administration trophy** - Stephanie Barajas, Aubrey Cooper, Kaden Smith, Chanelle Vaillancourt-Byrd
- **Interdisciplinary trophy** - Miranda Arnett, Daniel Korn, Andrea Worden
- **Humanities and Letters trophy** - Damian Campa, Sean McClain, Evan McShane, Braven Star-Clevenger
- **Physical and Mathematical Sciences trophy** - Ibrahim Alyassiry, Derek Gomez, Aiden Higgins, Miaka La Rose
- **Business, Economics, and Hospitality Management trophy** - Teophil Labus, Vincent Pugliesi, Nikolaus Roberds
- **2nd Place Awards** - Caden Amaya, Connor Judd, Paola Mendez, Iris Perla-Blanco
- **3rd Place Awards** (honorable mention) - Coleman Barker, Edwin Reyes, Daniel Reyes; Zeke Storm

## 2025 CSU Student Research Competition Planning Team

The 2025 CSU Student Research Competition is organized by the Cal Poly Humboldt Office of Research and Sponsored Programs. This the first time in 39 years that Cal Poly Humboldt has hosted the event. We are honored to be hosting and we want to acknowledge and extend sincere gratitude to our Campus partners, without whom this could not have happened: Conference & Event Services, Information Technology Services, University Catering, Marketing & Communications, Facilities, Parking Services, Campus Recreation, Student Disability Resources Center, and the Engineering Department Maker's Space. Thank you also to the Faculty teaching in Founders Hall and Siemens Hall and to the University Administration for your tireless support and marketing for this event. Additionally, we extend our gratitude to the Office of Student Research and the Office of the Vice President of Research staff from Cal Poly San Luis Obispo (2024 competition host) and the Office of Research Division of Research and Innovation at San Jose State (2026 competition host) for their planning insights and recommendations. It has been a pleasure working with you all. Thank you for all that you do to support CSU students, research, and innovation.



## Land Acknowledgement

We acknowledge that Cal Poly Humboldt is located on the unceded lands of the Wiyot people, where they have resided from time immemorial. We encourage all to gain a deeper understanding of their history and thriving culture. As an expression of our gratitude, we are genuinely committed to developing trusting, reciprocal, and long-lasting partnerships with the Wiyot people as well as all of our neighboring tribes.

## CSU SRC Campus Coordinators

Bakersfield	<b>MANUEL BARRERA</b> Director of Sponsored Programs Development <b>ISABEL SUMAYA</b> AVP of Grants, Research, and Sponsored Programs	Channel Islands	<b>AHMED AWAD</b> Director of Student Research, Professor of Chemistry <b>VERONICA GUERRERO</b> Associate Vice President for High Impact Practices & Experiential Education <b>SUSANA WILLEFORD</b> Student Research Analyst
Chico	<b>SHARON BARRIOS</b> Dean, Office of Graduate Studies <b>ADRIENNE GLATZ</b> Administrative Support Coordinator, Office of Graduate Studies <b>ROSEMARY WHITE</b> Student Success Coordinator, Office of Graduate Studies	Dominguez Hills	<b>SHEREE SCHRAGER</b> Dean of Graduate Studies and Research <b>KEN SELIGSON</b> Co-Chair, Student Research Conference
East Bay	<b>RAM KANDASAMY</b> Faculty Fellow, Opportunities for Student Scholarship, Creative Activities and Research (OSCAR) <b>JENNIFER SHERWOOD</b> Director, Opportunities for Student Scholarship, Creative Activities and Research	Fresno	<b>JASON BUSH</b> Interim AVP of Research and Sponsored Programs <b>DOUG CAREY</b> Director, Research & Sponsored Programs <b>SARAH CHAFFINS</b> Research Operations Analyst
Fullerton	<b>NICOLE BONUSO</b> Director, Undergraduate Research Opportunity Center <b>BINOD TIWARI</b> Associate Vice President for	Humboldt	<b>SAM CAUDILL</b> Executive Support Coordinator <b>KACIE FLYNN</b> Executive Director, Research & Sponsored Programs

	Research and Sponsored Projects		
Long Beach	<b>ELYZZA APARICIO</b> Director of Office of Undergraduate Research Services <b>DINA PERRONE</b> Interim Dean of Graduate Studies <b>BARBARA TAYLOR</b> Interim Associate Vice President, Research and Economic Development	Los Angeles	<b>KARINA MARTINEZ</b> Research Support Analyst <b>CLAIRE RINER</b> Research Support Services Coordinator <b>JASON SHIOTSUGU</b> Director, Office of Research, Scholarship, and Creative Activities
Maritime Academy	<b>GRAHAM BENTON</b> Dean of Strategic and Academic Planning <b>CHRISTOPHER BROWN</b> Senior Director, Research and Innovation	Monterey Bay	<b>JOHN E. BANKS</b> Director, Undergraduate Research Opportunities Center (UROC) <b>NATASHA OEHLMAN</b> Writing & Professional Comm. Associate, UROC
Northridge	<b>WENDY BROWN-DANKS</b> Administrative Coordinator, Graduate Studies <b>AMY LEVIN</b> Assistant Vice President, Graduate Studies <b>ELIZABETH SUSSMAN-DABACH</b> Faculty Director of CSUNposium	Pomona	<b>EVERARDO BARRAZA</b> Faculty Director, Office of Undergraduate Research <b>ARIANNE MURAMOTO</b> Events Coordinator, Office of Undergraduate Research
Sacramento	<b>VANESSA ALEJOS</b> Program Coordinator, Student Research Center <b>YVETTE FARMER</b> Director, Student Research Center <b>LISA HAMMERSLEY</b> Interim Associate Vice President, Offices of Research, Innovation, and Economic Development	San Bernardino	<b>TIMOTHY AKERS</b> Associate Provost for Research <b>RYAN KEATING</b> Director, Student Research and Professor, College of Social and Behavioral Science History <b>DANIELLE WHITE</b> Program Manager, Office of Student Research

San Diego	<b>ALICIA KINOSHITA</b> Director of Undergraduate Research, Scholarship, and Creative Activities <b>CHARLES PICKERING</b> Event Coordinator <b>STEPHEN PRENDERGAST</b> Student and Faculty Research Coordinator	San Francisco	<b>SOPHIE CLAVIER</b> Dean of Graduate Studies & Career Development <b>KHALED EZZAT</b> Associate Director of Enrollment & Curricular Engagement <b>NIYA KING</b> Events & Marketing Specialist <b>SUSAN PELTON</b> Interim Assistant Vice President, Research & Sponsored Programs <b>NOAH PRICE</b> Associate Dean of Graduate Studies & Career Development
San José	<b>EMILY CHAN</b> Director of Research Engagement <b>LAUREN LEE</b> Project and Communications Coordinator	San Luis Obispo	<b>JANE LEHR</b> Director, Office of Student Research <b>AMBER RAUGHT</b> Interim Coordinator, Office of Student Research
San Marcos	<b>CHARLES DE LEONE</b> Dean of Graduate Studies and Research <b>SHEILA VAN METRE</b> Administrative Support Coordinator	Sonoma	<b>DIANE GUIDO</b> Chief Research Officer <b>EMILY PORTER</b> Grant Analyst, Office of Research & Sponsored Programs <b>GABRIELLE UTARID</b> Senior Director, Office of Research & Sponsored Programs
Stanislaus	<b>MICHELLE ALLEN</b> Administrative Coordinator <b>JOYCE BELL</b> Director, Office of Research and Sponsored Programs <b>ASHLEY REEVES HUCKABY</b> Grant & Contract Specialist		