



Annual Report

2023-24

CSUE

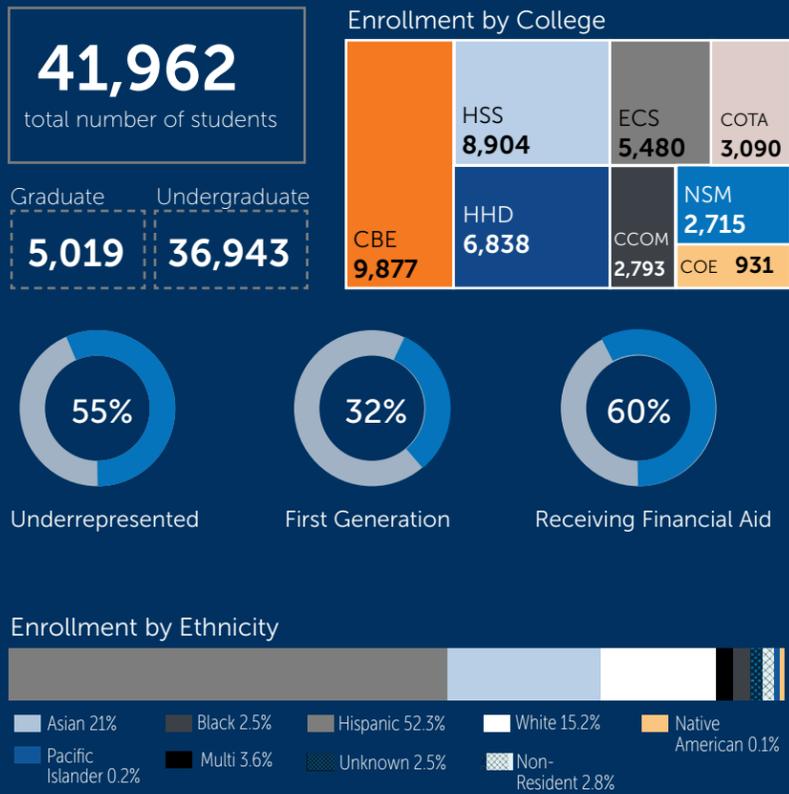
Office of Research
and Sponsored Programs
ACADEMIC AFFAIRS

About Cal State Fullerton

Cal State Fullerton is a leading campus of the CSU, serving as an intellectual and cultural center for Southern California and driver of workforce and economic development. We are an emerging national model for supporting student success through innovative high-impact educational and co-curricular experiences, including faculty-student collaborative research.

Cal State Fullerton is a university of significance, ranked as a top institution in the nation and recognized as a leader within the California State University and beyond. A Titan education is defined by immersive learning experiences amid a rich diversity of perspectives and backgrounds. CSUF graduates are confident, well prepared and culturally competent, uniquely positioned to excel in the global marketplace, in further education and in their communities.

2023 CSUF Statistical Highlights



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MESSAGE FROM LEADERSHIP



Amir Dabirian, Ph.D.
Provost and Vice President
for Academic Affairs

As the Provost and Vice President for Academic Affairs at California State University, Fullerton, I welcome you to read the Office of Research and Sponsored Programs (ORSP) 2023-24 Annual Report. As you turn the pages of this report, I invite you to reflect not only on our accomplishments from the past fiscal year but also on the remarkable progress we've made over the last five years under the 2018-2023 CSUF governing strategic plan.

Throughout this report, you will find evidence of our institutional commitment to cultivating lifelong habits of scholarly inquiry, critical thinking and creativity, and the impactful collaborations between our faculty, students, and staff. These collective efforts—particularly in faculty-student research, scholarship and creative activities, and the development and administration of extramural grants—have significantly enhanced CSUF's funding landscape in recent years.

I extend my heartfelt gratitude to our faculty for their unwavering dedication to providing high-impact experiential learning opportunities for our students. I also appreciate the contributions of our community partners and sponsors, which have been essential to our continued growth in sponsored project funding.

A special thank you goes to the entire Office of Research and Sponsored Programs team. Their tireless commitment, expertise, and collaboration have been crucial in driving our success, and their dedication to advancing research and securing funding is truly commendable.

As we look ahead, let us carry the momentum of our achievements forward. Together, we will build on our successes and ensure that our collective efforts lead to even greater accomplishments in the coming years.

I am proud to present this year's annual report for the Office of Research and Sponsored Programs, which highlights the amazing work being done by Cal State Fullerton faculty, staff and students. As we reflect on another remarkable year, I take immense pride in our designation as one of the select universities nationwide recognized for high research activity (R2). This prestigious classification underscores our university's steadfast commitment over the past five years to address the needs of our campus community and beyond through impactful research, scholarly and creative activities.

Throughout the pages of this annual report, you will see how our campus has reached unprecedented heights, having achieved record-breaking levels in several areas. Over the past five years, guided by our 2018-2023 strategic plan, we have witnessed our research efforts flourish, driving scholarly advancements while enhancing the academic environment for both our students and faculty.

Since 2018, the number of grants and contracts has surged by an astounding 110%, culminating in **nearly \$58 million secured** in external funding this past year alone—a **25% increase** from the previous year and an all-time high for the campus. We have also provided nearly **\$1 million in intramural funding** for 2023-24, which is more than double from previous years.

This continued growth is a testament to many factors, including our exceptional faculty, who are recognized by their peers, national organizations, and funding agencies for their significant contributions to advancing knowledge in vital fields across all disciplines.

Our faculty continue to actively publish high impact articles in their respective disciplines, which has enabled us to maintain a top 25 position in the US News and World Report's Global University Ranking for three consecutive years as well as se-

ecure a spot among the top three U.S. public universities for publication impact.

More importantly, however, is the research and scholarly activities of our faculty that have invigorated both undergraduate and graduate education by creating transformative opportunities for our students to affect positive change in the world. It is this faculty-student collaboration that allows our students to acquire the essential skills and experiences that will drive the next wave of innovative discoveries, contribute to economic growth, and enhance our overall workforce. The projects presented within these pages showcase a small fraction of the impactful work being done across our campus.

The goal of ORSP remains steadfast: to support our faculty, staff, and students in their research, scholarly, and creative endeavors. As such, I would also like to acknowledge the hard work and dedication of our ORSP staff and faculty fellows. Their commitment to engaging our campus community in both extramural and intramural proposal development and submissions, along with their support for research compliance and sponsored programs, has resulted in high-quality research and creative activities, as well as significant contributions to peer-reviewed journals and professional conferences. I thank them for their efforts.

As we continue to embrace the challenge to "Achieve Greatness," I also want to extend my gratitude to everyone involved in this journey, including our sponsors, community partners and the CSU Office of the Chancellor. Thank you for your ongoing dedication and support as we build on this momentum and look toward an even brighter future for Cal State Fullerton.



Binod Tiwari, Ph.D., P.E.
Associate Vice President
Office of Research and Sponsored Programs

"Since 2018, the number of grants and contracts has surged by an astounding 110%, culminating in nearly **\$58 million secured** in external funding this past year alone—a **25% increase** from the previous year and an all-time high for the campus."

- Binod Tiwari, Ph.D., P.E.
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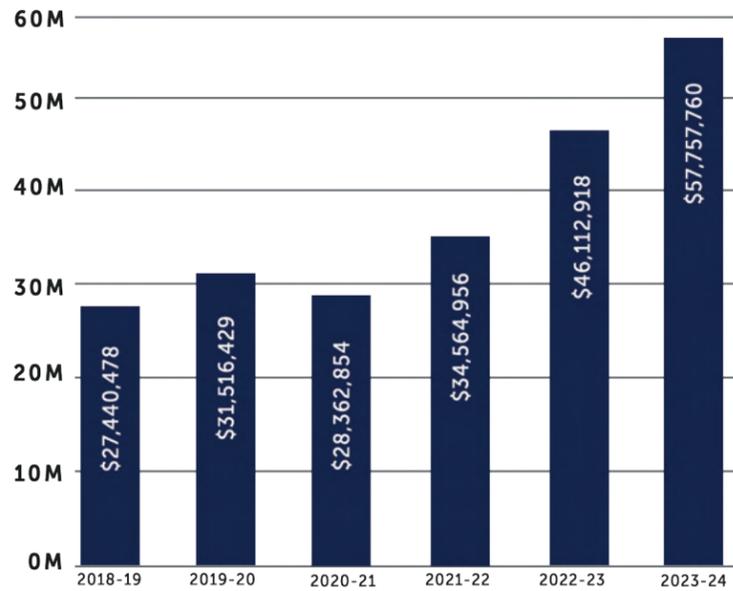
"I invite you to reflect not only on our accomplishments from the past fiscal year but also on the remarkable progress we've made over the last five years under the 2018-2023 CSUF governing strategic plan."

- Amir Dabirian, Ph.D.
Provost and Vice President for Academic Affairs

BY THE NUMBERS

The Office of Research and Sponsored Programs(ORSP) is pleased to present the following highlights for Fiscal Year 2023-24, reflecting our achievements and contributions as of June 30, 2024. Our campus achieved a record high of \$58 million in extramural grants and contracts, which represents a 110% increase in total extramural funding since 2018. These milestones, along with the other numbers presented, reflect the strength of our research community and our ongoing dedication to fostering impactful scholarship.

External Awards since 2018

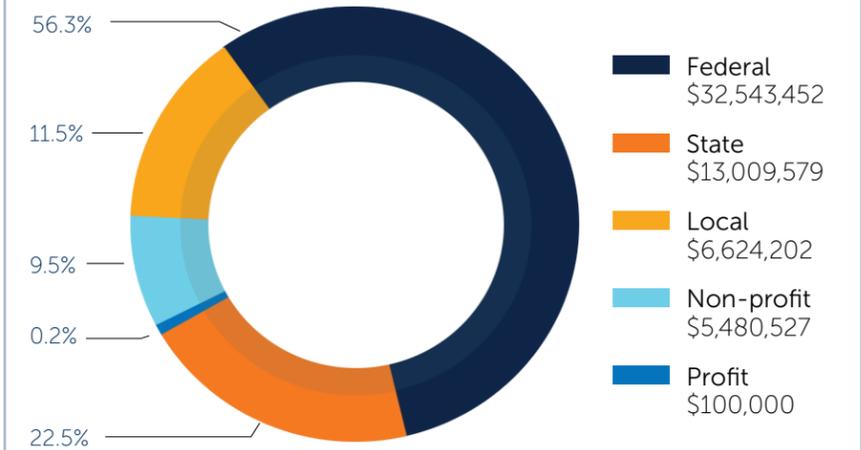


\$58 million
in extramural grants and contracts

110% increase
in extramural grants and contracts since 2018

\$123.9 million
in extramural submissions

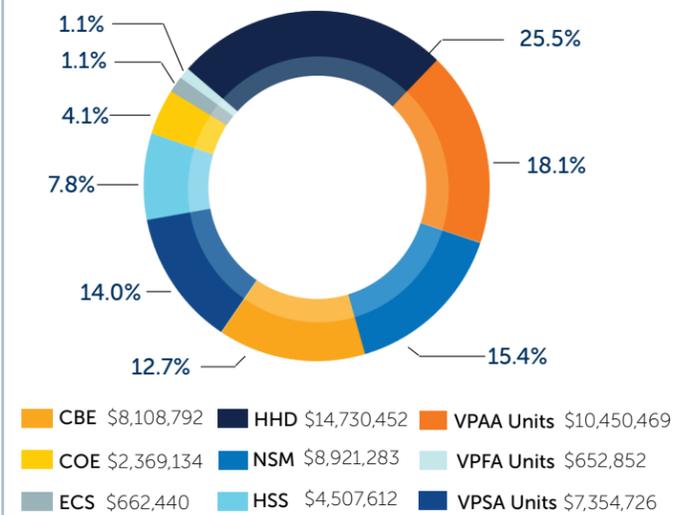
2023-24 Awards by Sponsor Type



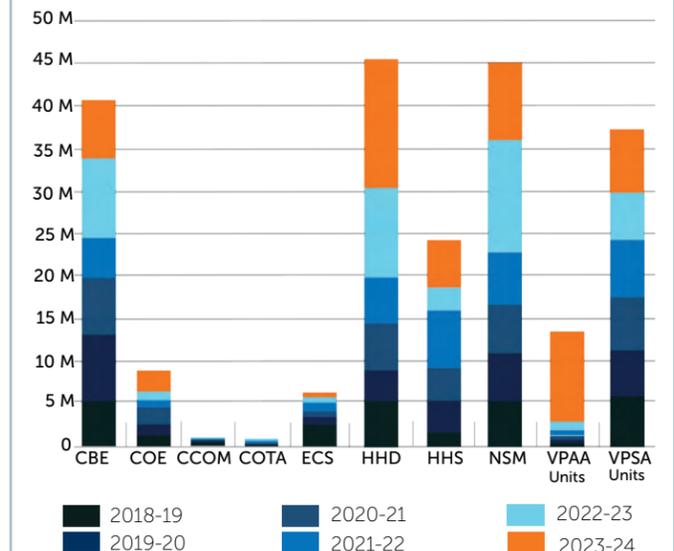
162 total awards

nearly **\$1 million**
in intramural funding

2023-24 Awards by College/Division



Awards by College/Division since 2018



STRATEGIC PLAN 2018-2023

The Office of Research and Sponsored Programs' (ORSP) implementation of the Cal State Fullerton 2018-2023 Strategic Plan was galvanized by three key goals: Provide a **transformative educational experience** and environment for all students; **recruit and retain** a high-quality and diverse faculty and staff; and **expand and strengthen** our financial and physical capacity.

Under each of these goals, ORSP defined clear strategies (page 9) to align our efforts with the University's overarching vision of making a meaningful impact on all Titans. Our initiatives—ranging from the pursuit of extramural and intramural funding to providing opportunities for faculty development and student research—have been strategically focused on fulfilling these objectives. As we look back on the past year—marking the final year of our five-year strategic plan journey—ORSP is proud to have contributed significantly to our shared path toward greatness.

Cal State Fullerton Goals and Strategies

Goal 1 Transform

Provide a transformative educational experience and environment for all students.

Goal 1 Strategy

1.3 Scale and institutionalize culturally responsive curricular/co-curricular High Impact Practices (HIPs).

1.8 Increase on-campus student employment, internships, and development opportunities.

1.9 Expand faculty-student mentoring opportunities, particularly during last year of undergraduate experience.

Goal 3 Recruit and Retain

Recruit and retain a high-quality and diverse faculty and staff.

Goal 3 Strategy

3.1 Conduct campus climate surveys and aggregate data on a regular basis. Report findings to the campus community.

3.8 Diversify and grow opportunities to promote faculty teaching, scholarly and creative activities, and support services to enhance the professional lives of faculty.

Goal 4 Expand and Strengthen

Expand and strengthen our financial and physical capacity.

Goal 4 Strategy

4.10 Define an overall university goal for revenue from self-support/entrepreneurial activities.

4.11 Develop appropriate financial models and business plans in each self-support/entrepreneurial program to realize net revenue targets.

ORSP Guiding Strategies

1.1 Support the development and expansion of High Impact Practices, focusing on strengthening faculty professional development in research, scholarship, and creative activities.

1.2 Conduct an inventory of undergraduate research or other faculty-student mentoring opportunities and consistently develop a model to promote this experience across majors.

1.3 Explore and pursue funding opportunities encouraging and supporting student employment, internships, and professional development.

1.4 Identify, strengthen and support interdisciplinary or trans-disciplinary research, scholarship, or creative activities.

3.1 Identify ORSP staffing needs and explore creative models to increase support capacities at the department and college levels.

3.2 Provide and support professional development opportunities for faculty and staff that aim at developing their competencies in understanding and supporting the success of CSUF's diverse community.

4.1 Identify research and scholarly activity goals and explore models that encourage faculty pursuit of extramural funding.

4.2 Collaborate with campus partners to develop a sustainable self-support activity and revenue model.





FACULTY RESEARCH & PROJECT HIGHLIGHTS

The following pages showcase the diverse and impactful research, creative, and scholarly activities led by our faculty members across various disciplines. From initiatives to train teachers in childhood development to pioneering alternative opioid treatments, from the cutting-edge applications of artificial intelligence to the rich exploration of African theater, the stories shared here reflect the breadth of knowledge and the profound contributions our faculty make to their fields, our university, and society. These efforts are supported by a range of funding sources, including both extramural grants from federal, state, and private agencies, as well as intramural grants that empower our faculty to pursue new ideas and initiatives. Each story represents a piece of the larger narrative of academic growth, discovery, and the continuous pursuit of excellence.

Through these faculty-driven projects, we celebrate the dedication, creativity, and intellectual curiosity that define our university's culture. Whether pioneering research with national and global implications or engaging in local community-driven initiatives, these projects demonstrate the transformative power of knowledge. Supported by the collaborative environment fostered by ORSP, our faculty are shaping the trajectory of innovation and scholarship, contributing not only to their academic disciplines but to the broader societal good. We invite you to explore these stories as a testament to the incredible work being done by our faculty.

\$1.2 Million Grant to Prepare Early Childhood Special Education Teachers

Cal State Fullerton has been awarded a **\$1.25 million** grant from the U.S. Department of Education to address the shortage of diverse and multilingual early childhood special education teachers in local classrooms.

The grant supports "Project Camino: Early Childhood Special Education," directed by Janice Myck-Wayne, professor of special education, and the university's 2023 Outstanding Professor. Aja McKee, associate professor of special education, is co-director of the project. The university has received \$250,000 in first-year funding.

Due to the state and nationwide shortage of special education teachers, Project Camino provides financial incentives and support for teacher candidates to enter the special education field.

Two-thirds of grant funds will go toward scholarships — up to \$13,000 — to pay for tuition, books, conference attendance and stipends to assist students in completing their early childhood special education credential.

"Project Camino scholars will be able to earn their credential without incurring debt," Myck-Wayne said.

Project Camino focuses on training future teachers to support and instruct young children with disabilities — from birth to kindergarten — including children with multiple disabilities, significant physical, emotional, sensory and cognitive disabilities, and autism.

"This project will prepare teachers to provide equitable, evidence-based, culturally and linguistically responsive instruction, intervention and service to students and their families," Myck-Wayne said. "The purpose is to increase the number of multilingual teachers from racially and ethnically diverse backgrounds to serve children with disabilities."

Project Camino strives to ensure equal access and education for all students, with

an emphasis on young students who are members of groups that are historically underrepresented.

The goals for the project include improving equitable student outcomes for young children with disabilities, particularly in the areas of literacy and mathematics skills. Coursework and in-classroom training for credential students include inclusion, diversity and multilingualism instruction.

The grant funding gives credential students the opportunity to learn from diverse faculty members from across college departments through monthly seminars and other activities. For their classroom training, students will be placed in high-need, local school districts, guided by veteran educators who are CSUF alumni.

Credential students will participate in professional education conferences and receive training in areas such as working with culturally and ethnically diverse families.

"In California, there is an alarming shortage of special educators that has largely resulted in underqualified teachers providing a substandard service," Myck-Wayne said.

"This shortage deprives our students with disabilities of being educated by highly qualified teachers, which affects their learning outcomes. Project Camino is addressing this shortage and filling the need to prepare well-trained teachers."

This latest funding is the fourth U.S. Department of Education-Office of Special Education Programs grant awarded to CSUF and directed by Myck-Wayne to prepare early childhood special education teachers.

This story originally appeared on CSUF News on May 31, 2024 and has been edited for space. Story credit: Debra Cano Ramos



Special education faculty members Janice Myck-Wayne, left, and Aja McKee
Photo credit: Janice Myck-Wayne

"This project will prepare teachers to provide equitable, evidence-based, culturally and linguistically responsive instruction, intervention and service to students and their families."

- Janice Myck-Wayne, Ph.D.
Professor of Special Education



Chemistry graduate student Leah Duong in the lab *Photo credit: Stevan Pecic/Leah Duong.*

Researchers Seek to Design Non-Opioid Treatment for Chronic Pain

Cal State Fullerton medicinal chemistry students Faye Yun and Leah Duong are studying drug design and creating new chemical compounds to develop a novel non-opioid solution for chronic pain treatment.

The research project, led by Stevan Pecic, assistant professor of chemistry and biochemistry, is funded by a nearly **\$600,000** grant from the National Institutes of Health.

"Our project has the potential to revolutionize pain management," Pecic said.

According to the National Institutes of Health, more than 50 million adults in the U.S. experience daily chronic pain and

another 20 million Americans report high-impact chronic pain. Common chronic pain medications include opioids and anti-inflammatory drugs like ibuprofen.

"This research is crucial because chronic pain is a significant health issue worldwide, impacting millions and often leading to disability. The current reliance on opioids for pain management is problematic due to risks like addiction," said Yun, a Class of 2024 graduate who will earn a bachelor's degree in biochemistry in May.

Duong, a second-year graduate student studying organic chemistry, relayed

that for those suffering from chronic pain, common nonaddictive painkillers like ibuprofen often don't work and can lead to adverse side effects.

"The goal of this research is to develop a safe and effective non-opioid therapeutic option that is potent enough to treat chronic pain," Duong said.

The most effective analgesic drugs currently used to treat moderate-to-severe pain are prescription opioids, such as oxycodone, explained Pecic, who previously worked in the Division of Experimental Therapeutics at Columbia University Medical Center. "Prolonged use of opioids will eventually lead to tolerance,

"This promising therapeutic strategy represents an opportunity to solve problems linked to existing therapies with completely new, non-opioid pain management research."

- Stevan Pecic, Ph.D.
Assistant Professor of Chemistry

physical dependence, addiction and even death," he said.

A Promising New Non-Opioid Treatment

Pecic and his team of student researchers are developing small molecules that simultaneously inhibit two enzymes, called soluble epoxide hydrolase and fatty acid amide hydrolase, which are involved in pain and inflammation processes.

"This promising therapeutic strategy represents an opportunity to solve problems linked to existing therapies with completely new, non-opioid pain management research," Pecic said.

"Using modern medicinal chemistry and sustainable techniques and tools, we aim to demonstrate that our drugs effectively inhibit both enzymes involved in pain and inflammation."

Pecic's latest research continues his first \$426,000 NIH grant project. This study, conducted from 2020-23, showed that inhibiting both enzymes simultaneously would relieve pain.

Pecic and his students are collaborating with Bruce D. Hammock, a professor and entomology and chemistry expert at UC Davis, and Ram Kandasamy at Cal State East Bay. Kandasamy is a behavioral pharmacologist and co-investigator of the new NIH grant.

Hands-On Opportunities in Drug Design

Inside Pecic's lab in Dan Black Hall, students are working on all aspects of the project, including designing and synthesizing these original drugs, studying how these drugs interact with the body, pre-

dicting drug properties and measuring enzyme activities.

Students are trained to work on sophisticated medicinal chemistry instruments and learn medicinal chemistry techniques integral to doctoral-level academic research projects and those used in the pharmaceutical and biotechnology industries.

"These experiences in the lab and at conferences will help students to pursue a career in the biomedical sciences regardless of their intent to pursue a career in academia or the workforce," Pecic said.

In March, students will present their research at the American Chemical Society meeting in New Orleans and at the National Conference on Undergraduate Research in Long Beach in April. Duong and Yun also presented their projects at the California State University Biotechnology Symposium in Santa Clara last month.

Duong, born and raised in Vietnam, earned a bachelor's degree in chemistry from CSUF in 2023 and plans a career as a therapeutic scientist to develop new drugs.

"Being able to do this research with Dr. Pecic and getting the opportunity to develop all the hands-on skills that I have learned will make a difference when I apply for jobs in the field," she shared.

Yun, a transfer student from Chaffey College in Rancho Cucamonga and scholar in the university's U-RISE program to prepare students for careers in biomedical science, has applied to doctoral programs in chemistry for the fall. Her career goal is to become a researcher in

the field of chemical biology, with a focus on drug development.

"Given my background and experiences, I am deeply committed to advancing the field of medicinal chemistry, especially in developing new therapeutic solutions for critical health care issues like chronic pain," Yun said.

This story originally appeared on CSUF News on February 9, 2024. Story credit: Debra Cano Ramos.



Faye Yun,
biochemistry
student
*Photo credit:
Faye Yun*



Stevan Pecic,
assistant
professor of
chemistry



Yinfei Kong
Photo credit: Yinfei Kong

“Our research focuses on how workforce diversity and culturally competent strategies can reduce disparities in opioid treatment outcomes. We believe that understanding these dynamics is crucial for shaping effective healthcare policies and practices.”

- Yinfei Kong, Ph.D.
Associate Professor of Information Systems and Decision Sciences

Research Aims to Address Racial Disparities in Opioid Treatment Outcomes

Opioids, while widely used as effective pain-relieving medications, pose a significant risk of addiction, leading to a public health crisis that disproportionately affects minority communities.

For the past five years, Yinfei Kong, an associate professor of information systems and decision sciences, has spearheaded a research initiative aimed at identifying these critical health disparities in opioid treatment outcomes for marginalized populations.

His project, titled *From Workforce Diversity to Key Cultural Competency Strategies to End Racial Disparities in Opioid Treatment Outcomes in the Nation*, was supported by a five-year grant totaling **\$2,196,028** from the National Institutes of Health (NIH), with CSUF receiving a subcontract of \$274,703 from Texas A&M University for its contributions.

Kong’s research focuses on two critical areas: the application of Big Data Analytics in healthcare and the accessibility of substance use disorder (SUD) treatment for underserved populations, particularly African Americans, Hispanics, and women.

“One of the major barriers we are addressing is the lack of equitable access to healthcare,” Kong explained. “Our goal is to improve access and retention in medication-assisted treatment (MAT) programs, ultimately reducing health disparities in opioid treatment.”

The project leverages national longitudinal data and employs machine learning methods to assess the effectiveness of culturally and linguistically appropriate services (CLAS). By quantifying the impact of these services, the research seeks to provide evidence-based frameworks that healthcare providers can implement to enhance treatment access and retention for minority groups.

Kong emphasized the importance of workforce diversity in this initiative. “Our research focuses on how workforce diversity and culturally compe-

tent strategies can reduce disparities in opioid treatment outcomes,” he stated. “We believe that understanding these dynamics is crucial for shaping effective healthcare policies and practices.”

In addition to its implications for healthcare, Kong’s work in Big Data Analytics introduces innovative methods for managing complex, high-dimensional data, including interaction screening and scalable inference.

“These methodologies are not only transformative for healthcare but also hold valuable applications in fields like genomics and economics,” Kong noted. By bridging the gap between data science and public health, his research addresses pressing societal issues while paving the way for advancements across multiple disciplines.

According to Kong, CSUF students working on the initiative have gained hands-on experience in applying advanced data science techniques to address real-world healthcare challenges through interdisciplinary projects.

“This research has allowed students to connect data science with health disparities research, fostering a deeper understanding of both fields,” Kong explained.

Kong’s findings have informed discussions among healthcare policymakers and practitioners, facilitating the adoption of evidence-based practices in opioid treatment programs.

“Our outreach efforts are focused on sharing insights with community organizations and healthcare practitioners to ensure our research translates into tangible improvements in public health,” he said.

As the opioid crisis continues to impact communities across the nation, Kong’s work highlights the critical need for culturally competent care and equitable access to treatment, setting a path toward a more inclusive healthcare system.

Story credit: Vicki Green

Leveraging Intramural Grants to Enhance Speech-Language Clinical Practices

When Ying-Chiao Tsao, an associate professor of communication sciences and disorders, set out to improve clinical practices for speech-language clinicians, she identified two key research areas that could drive significant impact. First, she aimed to create a tutorial paper grounded in a solid theoretical framework to assist clinicians in making evidence-based decisions about speech rate strategies. Second, she sought to offer comprehensive academic training that emphasizes critical thinking, cultural humility, and counseling skills for speech-language students, utilizing high-impact practices and interprofessional education in collaboration with other healthcare fields.

To bring her research areas to fruition, Tsao applied for a Junior/Senior Grant— an intramural grant through CSUF which supports faculty in launching new research initiatives. The funding she received from this grant, as well as other intramural grants over the years, has been instrumental in advancing her work, particularly in the development of her forthcoming speech rate tutorial paper.

Tsao noted that this paper will incorporate data collected from two additional studies funded by these grants, showcasing the depth and breadth of her research efforts.

“The research presented in this speech rate tutorial paper challenges traditional practices that often advise individuals who stutter to elongate their speech sounds,” Tsao explained. “Many clients have expressed that they would prefer to stutter than sound robotic. Our goal is to promote alternative strategies, such as strategic pausing, that are tailored to each individual’s needs.”

This shift in focus not only aligns with the evolving understanding of the relationships between speech rate and fluency, but also highlights the importance of person-



Ying-Chiao Tsao (far right) poses with members of CSUF’s Communications Inter-Club Council.
Photo credit: Ying-Chiao Tsao. Story credit: Vicki Green.

alized therapy.

Her research will not only suggest these innovative strategies for clients who stutter but will also empower speech-language clinicians to implement evidence-based practices effectively. By contributing valuable insights to the American Speech-Language-Hearing Association Evidence Maps—a resource that provides clinicians with quick synopses of guidelines and systematic reviews pertaining to clinical topics in speech-language pathology and audiology—the publication will benefit both individuals facing fluency challenges and the professionals who support them.

“This speech rate tutorial paper will enrich the resources available to the CSUF community and beyond, fostering a more informed approach to speech therapy,” Tsao noted, emphasizing the broader impact of her research.

Beyond her own research, Tsao’s initiatives have created valuable opportunities for CSUF students over the years. Six graduate students have participated in her intramurally-funded projects, with five successfully completing their graduate work and one student, Traci Teperstra, presenting alongside her at the American Speech-Language and Hearing Convention.

“Seeing my students thrive in this field is incredibly rewarding,” Tsao noted. “It’s important for them to engage in research that not only advances their academic ca-

reers but also has a meaningful impact on the community.”

For Tsao, a clear example of this impact is when former student Teperstra sponsored a department scholarship. This generous contribution not only alleviates financial burdens for future students but also fosters a culture of support and encouragement among emerging professionals. Tsao views this act of giving as a powerful testament to the impact of mentorship, stating, “When our graduates invest back into the program, it creates a ripple effect that enriches the entire community and inspires the next generation of speech-language clinicians.”

“Our goal is to promote alternative [speech] strategies...that are tailored to each individual’s needs.”

- Ying-Chiao Tsao, Ph.D.
Associate Professor of Communication Sciences and Disorders

CSUF Secures National Science Foundation Grant to Study Impact of Instructional Methods on Student Understanding of Measurement

Gina Passante, associate professor of physics at Cal State Fullerton, has been awarded a National Science Foundation (NSF) grant to explore how instructional methods influence student understanding of measurement. The **\$194,578** NSF grant will fund a collaborative research project with Cornell University entitled “The Impact of Instruction on Student Thinking About Measurement in Classical and Quantum Mechanics Experiments.”

In a major push to equip students for 21st-century STEM careers, many post-secondary institutions are rapidly

and its variability is fundamental to all STEM fields.”

Passante’s research aims to address this issue by exploring how various instructional methods influence students’ understanding of measurement and by using those insights to develop more effective physics education curricula.

“Currently, there is a significant variation in how measurement uncertainty is taught,” Passante stated. “By examining how different teaching strategies shift student thinking, we hope to create educational approaches that lead to a more data literate population that thinks

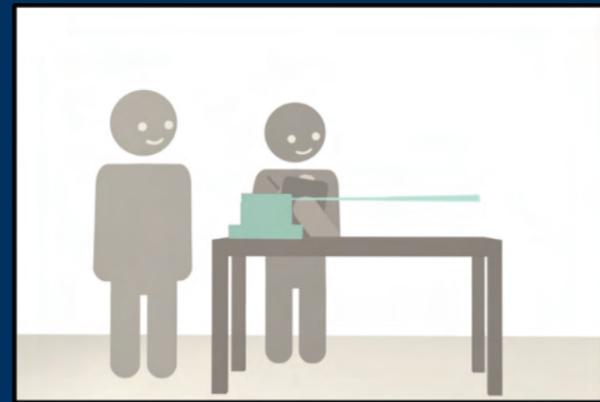
“By actively recruiting a diverse array of students from a broad spectrum of institutions,” Passante said, “we intend to generate findings that are more universally applicable across the nation, enhancing the external validity of results in the field of physics education.”

When Art Meets Science

A unique aspect of this research includes the introduction of art animation to visualize complex experiments and measurement concepts. Passante hired CSUF art student Emilie Yin to create animations that illustrate experimental set-

“By examining how different teaching strategies shift student thinking, we hope to create educational approaches that lead to a more data literate population that thinks critically about measurement, preparing them for success beyond the classroom.”

— Gina Passante, Ph.D.
Associate Professor of Physics



Still image from art animation of measurement concepts.
Photo credit: Emilie Yin

incorporating data science and quantum information into their programs. As Passante notes, however, a key aspect of this educational shift is making sure that students understand the basics of measurement and its uncertainties.

“It’s crucial that students master the fundamentals of measurement, including variability and uncertainty, across a range of contexts—from everyday objects in classical physics to the microscopic particles in quantum mechanics,” Passante explained. “Understanding measurement

critically about measurement, preparing them for success beyond the classroom.”

The research will involve data collection from at least 30 introductory lab and quantum mechanics lecture courses and more than 600 participants across the United States, encompassing a diverse range of institutions and students. The investigation will be bolstered by a combination of interviews, surveys, document analysis and cutting-edge techniques (such as natural language processing).

ups to enhance the clarity and effectiveness of the research materials.

According to Passante, one of the key challenges in physics education is that not every student encounters the same experiments or questions. “By incorporating these visual components,” she explained, “we can provide a more comprehensive learning experience and collect more robust data on student understanding.”

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Story credit: Vicki Green

CSUF Professor Combines Data Science and Wildfire Research to Shape Future Solutions

California is notorious for its intense and unpredictable wildfires. Daoji Li, an associate professor of data science and statistics in the Department of Information Systems and Decision Sciences at Cal State Fullerton is at the forefront of efforts to better understand and predict these natural disasters. His project, “Understanding Wildfires Using Machine Learning,” seeks to improve wildfire prediction models by integrating deep learning techniques with traditional statistical methods. The goal is not only to advance theoretical knowledge but also to provide practical, real-world solutions to wildfire management and prevention.

Li, who was awarded a Research, Scholarly, and Creative Activity (RSCA) Grant in 2023 to support his work, focuses on creating more efficient models for identifying relevant variables in wildfire data. This research aims to improve the accuracy and interpretability of predictive models, making them easier to understand for both researchers and policymakers.

“I strive to create statistical frameworks that allow researchers to draw valid conclusions from observational data,” Li explained. “Ultimately, my goal is to guide policymakers and practitioners in making informed decisions.”

While this work is centered on wildfires, Li sees broader applications for his research. He believes his research, including the statistical methods and deep learning models he has developed, could also be used to address challenges in other fields, such as finance, healthcare, and environmental science. The interdisciplinary nature of this project has already led to collaboration among statisticians, domain experts, and practitioners, sparking innovation across multiple sectors.

Thanks in part to the RSCA grant’s support, Li has also been able to submit two additional grant proposals and

has written four research papers, two of which have been published in peer-reviewed journals. Additionally, he has been invited to present his findings at two international conferences.

Li’s success is partly due to the strong support from the Office of Research and Sponsored Programs (ORSP), which helped him navigate the grant application process. “The Grant Writing Academy 101 provided by ORSP has significantly advanced my research and opened additional funding opportunities,” he said.

Beyond his research, Li is passionate about providing opportunities for CSUF students to engage in cutting-edge research. With the new research project, he plans to hire a student research assistant and strengthen faculty-led research initiatives in data science and statistics. His goals include training students in transferable skills for careers in STEM, while also fostering excitement around student research at CSUF.

To this end, Li has also integrated his findings into his course *ISDS 540: Statistics to Data Science*.

“By incorporating my research findings into this course, I’m able to give students hands-on experience with data science and machine learning. This not only helps them understand the latest advancements in the field, but it also prepares them with the skills and knowledge they need to thrive in the ever-evolving world of data science,” Li stated.

Li’s work exemplifies how combining advanced technology with traditional methods can offer innovative solutions to pressing environmental issues. His research into wildfire prediction not only enhances scientific understanding but also equips students with valuable skills for the future.

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Story credit: Marisa Estrada



Daoji Li, Ph.D.
Photo credit: CSUF News

“I strive to create statistical frameworks that allow researchers to draw valid conclusions from observational data. Ultimately, my goal is to guide policymakers and practitioners in making informed decisions.”

— Daoji Li, Ph.D.
Associate Professor of Information Systems and Decision Sciences



Psychology Professor Awarded NSF CAREER Award for AI-Powered Platform to Help Underserved Students in STEM Subjects

Yuko Okado, associate professor of psychology has received a **\$979,212 NSF CAREER Award** for her project, "Improving Persistence of Underserved Students in Psychological Science Using an AI-Based, Personalized Career Exploration Platform."

This five-year project, which runs from September 2023 through August 2028, addresses two pressing problems in the Science, Technology, Engineering, and Mathematics (STEM) workforce: its limited diversity and shortage of qualified workers in many fields. This project models psychological and behavioral processes that predict STEM persistence, using both quantitative and qualitative data, with a particular focus on the experiences of underserved students. The project also examines how artificial intelligence (AI) can be harnessed to improve students' persistence in STEM via an online intervention that provides personalized career exploration.

This online intervention ("Psychology Pathways") features conversational virtual agent-mentors, video-recorded by a diverse set of real-life STEM professionals with backgrounds in psychology, that students can interview to learn about different potential career paths. This intervention will also suggest additional resources for career exploration based on students' interactions with virtual mentors and facilitate real-life connections between mentors and interested students. As part of this work, Okado will be collaborating with the learning sciences group at the University of Southern California Institute for Creative Technologies, led by Benjamin Nye, director of learning sciences, and Chief Technology Officer William Swartout.

The project is one of the first prospective, mixed-methods studies on STEM persistence and the first such study to have a follow-up period of four years. Extensive data will be collected from over 1,000 CSUF psychology majors, including their feedback regarding their experiences in career exploration, needs for career-oriented resources, and user experience with the Pathways intervention platform.

Throughout this project, Okado anticipates involving approximately 31 student research assistants at CSUF and integrating some of her research into Psychology 300 (Intermediate Research Methods and Statistics) classes so that students can gain hands-on exposure to interdisciplinary research involving AI-based web platforms.

"This project will help continue to put CSUF – and psychology as a discipline – on the map as essential sources of scientific knowledge and diverse entrants to the STEM workforce. Studying psychology students at CSUF presents a unique opportunity to generate critical knowledge on long-term STEM persistence and the impact of a customized AI-based intervention because of the size and diversity of our hard-working, thoughtful, and capable student population," Okado explains. She added that psychology is also the largest STEM discipline and provides training in critical skills in high demand in many STEM sectors, including research methods, data analysis, and "21st-century skills."

As part of a broader outreach, the Pathways intervention platform will be later disseminated as an open-source project that can be customized and implemented at other educational institutions. Thus, this project establishes a process of research and development that can be applied to other sites and STEM disciplines to increase entry into and diversity of the STEM workforce.

"I view this grant as an important affirmation that our students – their experiences, aspirations, and trajectories – matter and are



Yuko Okado

important to science and the nation," Okado stated.

"I would have never dreamed of even applying for this grant, which I thought was completely out of reach, if it weren't for the inspiration and motivation from my students and the support and encouragement from many vital movers and shakers – including collaborators, my own mentors, colleagues at CSUF, family and friends, and this project's research advisory board (which includes Barbara Gonzalez, CSUF's first ever CAREER awardee). I've also appreciated the support and guidance from many of CSUF's past CAREER awardees and the grants team. As with most research projects, this is truly a community effort."

This story originally appeared on CSUF News on August 30, 2023 and has been edited for length. Story credit: Alan Van Fleet

"I view this grant as an important affirmation that our students – their experiences, aspirations, and trajectories – matter and are important to science and the nation."

– Yuko Okado, Ph.D.
Associate Professor of Psychology

CSUF Professor Reflects on Successful Outcomes of Mechanical Engineering Education NSF Grant

As the five-year research grant from the National Science Foundation (in collaboration with the University of Michigan) comes to a close, Jin Woo Lee, associate professor of mechanical engineering, is celebrating the initiative's significant impact on undergraduate engineering education. The grant, titled "Advancing Undergraduate Engineering Education:

either fail to gain traction or, worse, negatively impact social systems.

As such, the initiative centered on workshops designed to provide essential support for students' design projects while teaching critical skills often overlooked in traditional curricula. The sessions covered topics such as Introduction to Socially Engaged Design, Crafting Need State-

from CSUF's mechanical engineering program, took part in this fieldwork as part of his senior project. He noted how the experience influenced his understanding of human-centered design, a topic rarely emphasized in core engineering classes. "Training culturally competent engineers that understand the context in which their designs will be used not only benefit stakeholders, but also helps guide engineers to deliver solutions that provide maximum benefits to society while mitigating the risks of causing harm," Gunera said.

Gunera pointed out that focusing on human-centered design, including the integration of psychology concepts, helped him see engineering as a multidisciplinary field. "This project has changed the way I view the engineering design process. Dr. Lee has done outstanding work incorporating social factors into the senior design curriculum, preparing students to become well-rounded engineers ready for the workforce," he said.

Reflecting on the project's outcomes, Lee highlighted the initiative's broader impacts: "We've seen our modules integrated not only here at CSUF but also at other institutions. Collaborators have been publishing research, and our conference presentations have been well received," he said.

Looking ahead, Lee is eager to collaborate with additional faculty members to expand the reach of this initiative. "We believe there is a tremendous opportunity to develop socially designed skills that will benefit students across various engineering courses," he said. "The aim is to make these learning modules an integral part of our curriculum."

As the research team prepares to extend the grant, they hope to demonstrate the long-lasting benefits of these educational strategies. "By equipping our students with both technical expertise and social awareness, we are preparing them to tackle complex societal challenges through engineering," Lee concluded.

Story credit: Vicki Green

"Engineering is inherently a socio-technical discipline. It's crucial for our students to understand that the devices they create will ultimately be used by society."

- Jin Woo Lee, Ph.D.
Associate Professor of
Mechanical Engineering

Tools to Develop Engineering Design Skills that Consider Social, Economic, and Environmental Factors," has empowered mechanical engineering students to integrate social and technical considerations into their engineering designs.

Over the course of the grant, which provided a total of \$1,528,249 in funding (of which \$39,982 went to CSUF), Lee and his collaborators developed comprehensive undergraduate learning modules aimed at closing the gaps between theoretical concepts and real-world applications. "Engineering is inherently a socio-technical discipline. It's crucial for our students to understand that the devices they create will ultimately be used by society," Lee said during a recent interview.

Lee recognized early on that many technology designers struggle to identify context-specific needs and translate those needs into effective solutions. This disconnect can result in the development of technologies that, while well-intentioned,

ments, Ecosystem Stakeholder Mapping, Interviews, User Requirements and Specifications, Idea Generation, and Concept Selection and Prototyping. This approach fostered communication and collaboration by actively engaging students with stakeholders in their projects.

"We wanted to train our students in best practices for socially connected engineering. By emphasizing the perspectives of users, we were able to create needs-based solutions," Lee explained.

As part of the initiative, students were required to engage in fieldwork that involved interacting with users of their designs, actively integrating the learning modules into their projects. The feedback from students was overwhelmingly positive. "One of the most surprising aspects of this project was how well students absorbed the information and articulated the importance of considering various factors in their designs," Lee noted.

Carlos A. Gunera, a recent graduate

Mechanical Engineering Student Carlos Gunera Photo credit: Carlos Gunera

Theater and Dance Professor Advances African Theatre Through Innovative Website

Heather Denyer, an associate professor of theatre and dance, is making significant strides in bridging the gap between English-speaking audiences and the rich world of African theatre. Her project focuses on elevating the voices of African playwrights who write in French, fostering greater awareness and appreciation of their work among diverse cultural audiences. By creating connections across languages and cultures, Denyer is not only enriching the theatrical landscape but also promoting a deeper understanding of African artistic expressions.

Denyer's efforts resulted in the launch of a comprehensive website – African Theaters in Translation (AfricanTheatersInTranslation.org) – designed to connect scholars, students, and theatre artists worldwide who engage with theatre-makers from the African Diaspora, many of whom write and work predominantly in French. This dynamic resource serves as a tool for fostering understanding and appreciation of diverse theatrical traditions.

The concept for the website was born out of insightful discussions between Denyer and her friend, Beninese playwright Sedjro Giovanni Houansou.

"I was able to travel to various theatre festivals and conferences, thanks in part to a Research, Scholarly, and Creative ac-

tivities (RSCA) internal grant," Denyer explained. "Connecting with playwrights and theatre administrators during my travels not only expanded my own understanding of African theatre but also enabled me to bring invaluable insights back to my students. This initial funding was fundamental in getting the website off the ground."

Interdisciplinary Collaboration

Denyer's project not only highlights African theatre but also exemplifies the power of interdisciplinary collaboration. By working with students from various fields—including computer sciences, visual arts, and french—she was able to bring a diverse array of skills to the creation of the website.

"It was incredible to reach out to colleagues across the university and see students from different disciplines come together for this project," Denyer remarked. "The students' enthusiasm and expertise were crucial in bringing the website to life."

The collaborative effort resulted in a platform that not only showcases African playwrights but also fosters an opportunity for ongoing dialogue and engagement among students and theatre artists around the globe.

While the student-created website aims to provide greater access to African

plays that have historically been underrepresented in English-speaking regions, her project is not just about showcasing these works. Denyer emphasizes the importance of moving away from Eurocentric narratives in theatre education.

"This project is part of a larger effort to diversify what students learn about theatre and performance," she said. "As an educator in theatre, I wholeheartedly embrace my role in breaking from Eurocentric models—not only to increase representation in what students learn but also to radically shift the paradigms in understanding the histories and styles of theatre and performance."

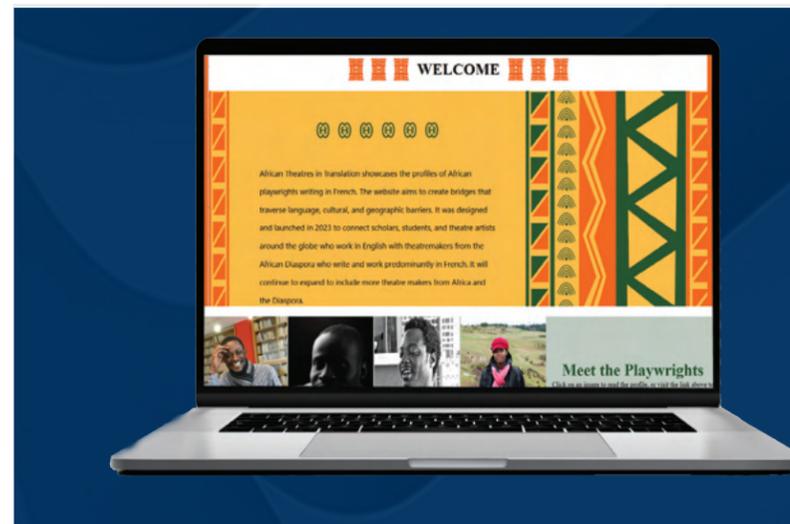
Looking forward, Denyer envisions the website evolving into a collaborative platform for more students, including those from other universities. Her goal is to expand the project to include Caribbean playwrights and create additional opportunities for students to engage with this vital art form, ultimately enriching the overall educational experience at Cal State Fullerton.

Visit the African Theaters in Translation at www.AfricanTheatersInTranslation.com.

Story credit: Vicki Green

"As an educator in theatre, I wholeheartedly embrace my role in breaking from Eurocentric models—not only to increase representation in what students learn but also to radically shift the paradigms in understanding the histories and styles of theatre and performance."

- Heather Denyer, Ph.D.
Associate Professor of Theater and Dance





STUDENT RESEARCH, SCHOLARLY & CREATIVE ACTIVITIES

The Undergraduate Research Opportunity Center (UROC) is a cornerstone of student engagement and scholarly achievement at California State University, Fullerton. Established in 2022 with the generous financial support from the Scott-Jewett gift and internal funding from the Office of Research and Sponsored Programs (ORSP), UROC is dedicated to advancing student research and creative activities across disciplines. Housed in the Pollak Library, UROC serves as a vibrant hub where students collaborate with faculty mentors to explore innovative ideas, conduct meaningful research, and contribute to the academic community.

UROC's mission aligns with ORSP's broader vision of fostering faculty-student partnerships that enhance learning, success, and personal growth through research. The center not only provides essential resources and support to student scholars and their mentors, but also plays a key role in cultivating a campus-wide culture of research and creative inquiry. From initial project development to presenting findings, UROC offers a comprehensive suite of programs designed to support and showcase student achievements in research, scholarship, and creative activities.



Southern California Conference for Undergraduate Research (SCCUR) 2023

In November 2023, Cal State Fullerton had the honor of hosting the Southern California Conference for Undergraduate Research (SCCUR), a premier gathering that celebrates the intellectual achievements of undergraduate scholars across the region. Held annually at a different institution in the greater Los Angeles area, SCCUR provides a dynamic forum for students to present their research, scholarship, and creative work, drawing participants from a wide range of disciplines, including the sciences, humanities, social sciences, arts, and performing arts.

This year's conference attracted more than **1500 students, faculty mentors, administrators, and other stakeholders**, who came together on the CSUF campus to exchange ideas, share discoveries, and celebrate academic excellence. The event highlighted the best and brightest undergraduate research from Southern California, fostering an atmosphere of collaboration and innovation.

The conference was organized by CSUF's ORSP and UROC, which provided crucial support for student registration and logistical coordination. CSUF's role

as host institution was a testament to its commitment to fostering scholarly inquiry, critical thinking, and creative expression, which are central to its mission of preparing students to thrive in a global, interconnected world.



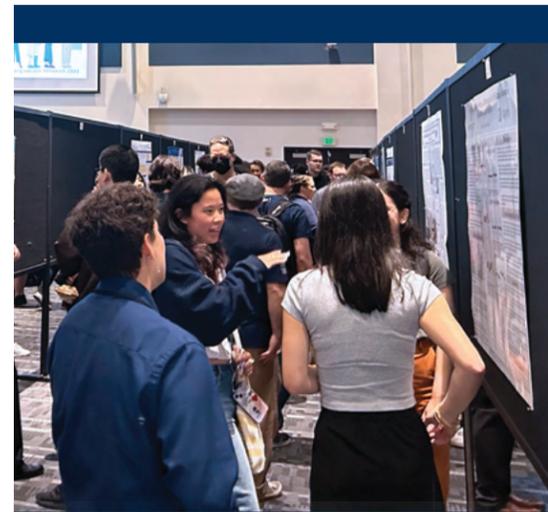
CSUF leadership expressed pride in hosting the event, emphasizing the university's dedication to cultivating lifelong habits of inquiry and inclusivity. The conference not only offered students the opportunity to showcase their research, but also honored the faculty mentors who play an essential role in guiding their academic journeys.

The success of SCCUR 2023 at CSUF serves as a shining example of the university's unwavering commitment to academic excellence and its ongoing support of undergraduate scholarship.

National Conference on Undergraduate Research (NCUR) 2023

The National Conference on Undergraduate Research (NCUR) is committed to fostering undergraduate research, scholarship, and creative activity across all fields by hosting an annual conference for students. Unlike traditional academic professional meetings, NCUR welcomes student presenters from all institutions and disciplines. This event provides a unique platform to celebrate and promote

undergraduate achievements, showcasing exemplary research and creative work. It also offers opportunities for student career readiness development, preparing them for future endeavors. This year, UROC supported student conference registration, enabling **78 students** from **20 departments** to present their work. The conference continues to be a valuable experience for students eager to share their scholarly contributions.



Undergraduate students present research posters for SCCUR Day 2023 at Cal State Fullerton.

SCCUR 2023 BY THE NUMBERS

1500+
attendees

89
CSUF presentations

16
CSUF departments

Student Presenters

Minh Bui, Communicative Disorders
 "A Further Look Into Two Grammatical Measures and Their Contribution to the Diagnostic Process" Faculty Adviser: Hyekeung Seun

Valeria Reyes Bastidas, Kinesiology and Child and Adolescent Studies
 "Investigation of Infant Postural Duration, Frequency and Milestones During the First Year of Life." Faculty Advisor: Do Kyeong Lee

Chirag Chetan, Mechanical Engineering
 "Study on Advancing Biodegradable Ureteral Stent Using 3D Printing Technology" Faculty Adviser: Sagil James

Alexis Gopaul, Civil Engineering
 "Innovative Service Life Modeling for Computation of Corrosion Propagation Time in Concrete" Faculty Adviser: Pratanu Ghosh

Zoie Nunez, Civil Engineering
 "Computation of Concrete Cover Cracking Time for Various High-Performance Concrete Mixtures" Faculty Adviser: Pratanu Ghosh

Tiffanie Lau, Educational Leadership
 "How Students With Disabilities Complete Transfer-Level Math: A Convergent Mixed Methods Study" Faculty Adviser: Carol Lundberg

Fernando Garcia, Mechanical Engineering
 "Explorative Study on Overcoming Blockage Challenges Within 5G Environments for Advancing Smart Manufacturing" Faculty Adviser: Sagil James

Ha Le, Civil Engineering
 "Addressing ASR Challenges in Concrete Through Cutting-Edge High-Performance Concrete" Faculty Adviser: Pratanu Ghosh

Tanner Megna, Chemistry
 "Relief of Excited-State Anti-Aromaticity Drives Photobasicity" Faculty Adviser: Andrew Petit



CSUF Students at the 38th Annual CSU Student Research Competition in San Luis Obispo

CSU Student Research Competition (SRC) 2024

The 38th Annual California State University Student Research Competition at Cal Poly San Luis Obispo was a remarkable showcase of Cal State Fullerton's student talent, with 11 students representing the university in a diverse array of disciplines. This year's team included both undergraduate and graduate students, six of whom were first-generation college students, highlighting the inclusivity and dedication of CSUF's research community. Their 10 presentations spanned a wide range of fields, reflecting the depth and breadth of research happening on campus.

Among the standout participants was Juliet Leyva, whose presentation, "Infant Movement Frequency and Duration Within the First Year of Life: A Longitudinal Case Study," earned an honorable mention for its excellence. This recognition speaks to the caliber of research at CSUF and the support students receive, with UROC providing critical resources for travel and preparation.

The team was supported by Binod Tiwari, associate vice president for research and sponsored programs, and Andrew Petit, associate professor of chemistry and biochemistry. Dr. Tiwari expressed immense pride in the team's

accomplishments, stating, "We are incredibly proud of our students for presenting their work alongside peers from across the CSU system. Their dedication and hard work truly reflect the high standards of excellence we strive for at Cal State Fullerton."

The success of these students at the competition exemplifies the strength of CSUF's commitment to fostering innovative research and providing valuable opportunities for growth and recognition.



Juliet Leyva, Kinesiology

"Infant Movement Frequency and Duration Within the First Year of Life: A Longitudinal Case Study"

Faculty Adviser: Do Kyeong Lee

CSUF Student Creative Activities and Research (SCAR) Day 2024

As part of CSUF's annual Research Week, SCAR Day provides a platform for undergraduate and graduate students to publically showcase their scholarly and creative work. This year, **66 students** presented their projects, all while learning to expand their networks, hone their communication skills, and receive valuable feedback from peers and faculty. Two participants from each college were recognized for their exceptional poster presentations, with **16 awardees** celebrated.

Micah Coble & Kimberly Ruiz, Art History
 Topic: Just Arts Initiative
 Faculty Adviser: Mary Anna Pomontis

Justin Winoto, Business Analytics
 Topic: Machine Learning
 Faculty Adviser: Mitra Sinjini

Cooper Davies, Human Communications
 Topic: Publicity and Trial Outcomes
 Faculty Adviser: Jon Brusckhe

Nicolas Orendain, Human Comm.
 Topic: Publicity and Trial Outcomes
 Faculty Adviser: Jon Brusckhe

Annabelle Recinos, Civil Engineering
 Topic: Concrete Structures
 Faculty Adviser: Pratanu Ghosh

Vasavi Vuppala, Computer Engineering
 Topic: Hardware Trojans (HTs)
 Faculty Adviser: Jaya Dofe

Jatin Mahey, Computer Engineering
 Topic: Fire Investigation and Remediation Endeavor.
 Faculty Adviser: Ankita Mohapatra

Oscar Diaz, Human Services
 Topic: Adult Children of Deaf Adults
 Faculty Adviser: Joseph Albert Garcia

Sandra Salas, Child & Adolescent Dev.
 Topic: Methamphetamine Drug Addictions
 Faculty Adviser: Melanie Horn-Mallers

Mia Botello, Kinesiology
 Topic: Lower Back Pain in Women
 Faculty Adviser: Pablo Costa

Natalya Rowe, History
 Topic: Portuguese Synagogue in Amsterdam
 Faculty Adviser: Paulo Simones

Issac Maldonado, Biochemistry
 Topic: Phosphorylation in PTBP2 Splicing
 Faculty Adviser: Niroshika Keppetipola

Stefany Araoz, Biology
 Topic: California Mussels
 Faculty Adviser: Jennifer Burnaford

Ashley Robinson, Physics
 Topic: Nematode *Turbatrix Aceti*
 Faculty Adviser: Anton Peshkov

Emily Arrey, English
 Topic: "One Poet's Voice"
 Faculty Adviser: Irena Praitis

Jason Batres, Alex Stewart, Katia Perez, & Derrick Pham, Psychology
 Topic: Executive Function Skills
 Faculty Adviser: Lucia Alacla



Kimberly Ruiz (left) and Micah Coble present their Just Arts research poster.

Micah Coble & Kimberly Ruiz, Art History

"The Just Arts Initiative"
 Faculty Adviser: Mary Anna Pomontis

Coble and Ruiz's first-place, hand-made poster, displayed artwork completed by incarcerated youth and adults as part of The Just Arts initiative, which uses arts education to promote social justice and equity. Their research, which included traveling to correctional facilities to teach art, showed that art education improves mental well-being and helps participants develop a stronger social identity. Initially skeptical, one participant discovered a passion for hand lettering and set a goal to create a calligraphy business.

Student Summer Showcase: SUREA and EG-RSCA

Latin American philosophy. Multi-drug-resistant bacteria. Immigration story mapping. Fly microbes. These are just some of the research topics that were on display at the Cal State Fullerton Summer Student Research Showcase. The event, organized by ORSP and hosted by UROC, spotlighted the remarkable research achievements of more than **135 students** and their **110 faculty mentors** participating in the Summer Undergraduate Research Academy (SUREA) and the Engaging Graduate Students in Research, Creative and Scholarly Activities (EG-RSCA) programs.

Nicole Bonuso, director of UROC, expressed her enthusiasm about the culminating Summer Research Showcase, noting, "The diverse research and scholarship happening at Cal State Fullerton truly reflects the exceptional talent and innova-

tion of our students. Not only do SUREA and EG-RSCA provide a vital platform for students to hone their research and presentation skills, but it also emphasizes the critical role of faculty mentorship in guiding and supporting these students as they engage deeper in their fields of study."

One such student was undergraduate Nora Mahmoud, who shared her determination to pursue a graduate degree after working with Parvin Shahrestani, associate professor of biological science. While in Shahrestani's lab, Mahmoud investigated the influence of microbes on the evolution of fly development time. She conveyed her surprise at how significantly bacteria impact the fly life cycle, noting, "It was fascinating to see how different microbes, such as lactic and acetic acids in the gut, can greatly influence fly development and

health." When asked about future plans for her research, Mahmoud expressed an interest in exploring the link between microbes and human health. "I'm eager to investigate how microbes correlate with human health on a deeper level," she said. "I'm hoping to continue this research in a graduate program."

Mahmoud's experience highlights one of the key goals of the SUREA and EG-RSCA programs: to ignite student interest in research. Binod Tiwari, associate vice president for ORSP, underscored the importance of hands-on research opportunities for undergraduate and graduate students.

"By offering practical research experiences, we foster a spirit of discovery and encourage the exchange of ideas," Tiwari said. "These opportunities not only en-

hance students' skills but also contribute to tackling community challenges through innovative and creative research."

This pursuit of impactful research was also evident in the work of undergraduates Karlos Flor and Diego Rojas. Working under the guidance of Morganna Lambeth, assistant professor of philosophy, Flor and Rojas made the compelling case for creating a new Latin American philosophy course at Cal State Fullerton. "We believe that Latin American philosophy offers unique perspectives and insights that can enrich the academic experience for our fellow students," explained Flor. "It's surprising that despite the rich philosophical traditions of Latin America, there are few CSUs that offer dedicated courses in Latin American philosophy, and we hope to address that gap."

As part of their project, Flor and Rojas also had the opportunity to review and provide feedback on sections in the Stanford Encyclopedia on Latin American existentialism, which is currently in pre-publication. "It was exciting to contribute to such a prestigious resource," said Rojas. "Our experience working with the creators of the encyclopedia has deepened our understanding of the field and reinforced the importance of Latin American philosophy."

Flor and Rojas' success in interacting with scholars outside the Cal State Fullerton campus illustrates the vital role that SUREA and EG-RSCA play in training students to present research and represent the university. Lana Dalley, professor of English, who leads the SUREA and EG-RSCA workshops, stressed the importance of these sessions in preparing students.

"In our workshops, we cover everything from conducting literature reviews to creating effective posters," Dalley explained. "We focus on teaching students how to distill complex information into accessible and impactful presentations, which is crucial for their success in research and beyond."

"It's surprising that despite the rich philosophical traditions of Latin America, there are few CSUs that offer dedicated courses in Latin American philosophy, and we hope to address that gap."

- Karlos Flor, Student Philosophy

Undergraduates Diego Rojas (left) and Karlos Flor present their Latin American Philosophy research poster.

Story credit: Vicki Green



Alexandera Alvarado

Title: "Echoes of Tradition: Exploring the Legacy of Jose Alfredo Jiménez in Latin-America."

Alvarado's project explores the life of legendary songwriter Jose Alfredo Jiménez and his influence on modern Latin-American music through an analysis of his most well-known songs, collaborations and the thematic complexity of his lyrics.

Faculty Advisor: Judit Palencia Guterrez, Ph.D.



Ahmed Mohamed

Title: "Genomic analysis of a multidrug-resistant *Acinetobacter baumannii* clinical strain with multiple and uncommon mechanisms of resistance"

Mohamed's research focuses on *Acinetobacter baumannii*, a dangerous pathogen known for its high mortality rates and designation as an "Urgent" threat by the CDC.

Faculty Advisor: María Soledad Ramirez, Ph.D.



Emma Bunim

Title: "The Producers: Art of the Impossible"

Under the guidance of Dr. Michael McAlexander in the College of Communications, Bunim is embarking on an ambitious documentary project titled "The Producers: Art of the Impossible." This film aims to shine a spotlight on the often-overlooked contributions of film producers.

Faculty Advisor: Michael McAlexander, Ph.D.

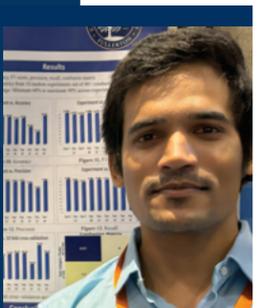


Sachin Lodhi

Title: "Identification of At-Risk students in a college course"

Lodhi's research utilized a machine learning model aimed at identifying college students at risk of failing or dropping out of their online courses.

Faculty Advisor: Kanika Sood, Ph.D.



UROC Student Fellowship

The Undergraduate Research Opportunity Center (UROC) at CSUF, launched its inaugural UROC Fellowship Grant in the past year, offering an expanded funding opportunity for undergraduate students to engage in faculty-guided scholarly and creative activities. This new initiative, aimed at promoting diversity in research, allowed students to receive \$4,500 per semester to pursue original research or creative work across various disciplines.

A total of **22 students** participated in the fellowship, representing **15 departments** from across **5 colleges**. This diverse cohort of fellows explored a wide range of topics, contributing to the richness of the university's academic community. Students were expected to commit at least 10 to 20 hours per week, amounting to 300 hours for semester awards and 600 hours for academic year awards.

Under the guidance of faculty mentors, students were able to explore their academic interests in depth, enhancing their research and creative skills.

In addition to their research, fellows participated in two workshops designed to provide valuable professional development and research insights. A key component of the UROC Fellowship Grant was participation in the UROC Canvas Community, where students submitted regular progress reports verified by their mentors. These reports detailed hours worked, tasks completed, and reflections on their research journeys, ensuring both accountability and growth.

"Through this fellowship, students not only contributed to advancing knowledge in their fields but also developed crucial skills like problem-solving, critical thinking, and collaboration," said Nicole Bonuso, director of UROC. "The experience

allowed them to deepen their understanding of the research process and gain a sense of ownership over their work, which is invaluable for their future academic and professional endeavors."

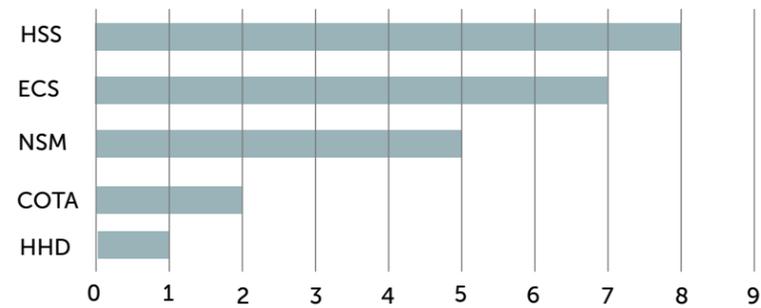
Students also had the opportunity to showcase their work at the Student Creativity Activities and Research (SCAR) Day, a platform for presenting their findings and creative projects to the broader academic community. At the conclusion of their fellowship, each student was required to submit a final report, summarizing their accomplishments and reflecting on the overall experience.

The inaugural UROC Fellowship Grant proved to be a transformative opportunity for students, empowering them to engage deeply with their academic passions and making significant contributions to the scholarly community at CSUF.

"This fellowship experience allowed students to deepen their understanding of the research process and gain a sense of ownership over their work, which is invaluable for their future academic and professional endeavors."

- Nicole Bonuso, Ph.D.
Director
Undergraduate Research
Opportunity Center

Student Fellowship by the numbers



Students per college

41%

Acceptance
Rate

22

Total
Students

600

Total Hours
per student

Spotlight on UROC Student Fellows



Emily Camacho, Psychology

Emily Camacho will graduate with a B.A. in Psychology in Spring 2024. As a research assistant in the Psychophysiology and Social Interactions Laboratory, she focuses on racial/ethnic LGBTQ+ health disparities. Her UROC Fellowship research examines the social experiences of LGBTQIA+ individuals, especially LGBTQIA+ People of Color in the Inland Empire.



Jonathan Olivares, Computer & Electrical Engineering

Jonathan Olivares, awarded the Edison STEM-NET Fellowship in Spring 2023, aims to enhance UAV efficiency for disaster management. His work on creating a voltage doubler circuit to improve EV charging and expertise with MATLAB Simulink contribute to his ability to design and simulate complex electronic circuits. His UROC Fellowship research focuses on optimizing photovoltaic (PV) power management for UAVs, incorporating ML and AI models for real-time fault detection, voltage regulation, and extending flight time in challenging conditions.



Noah Balderrama, Sociology

Noah Balderrama, a senior sociology major with minors in political science and philosophy, is researching LGBTQ individuals' perceptions of safe neighborhoods through hypothetical political geography. As a Ronald E. McNair Scholar, Noah is preparing to apply for a Ph.D. in sociology in Fall 2024. His UROC Fellowship research focuses on *Neighborhood Selection Processes and Housing Patterns of the LGBTQ Community in Southern California*



Perla Ayala, Psychology

Perla Ayala, a senior majoring in psychology with a minor in child and adolescent development, will graduate in Spring 2024. Her research fellowship focuses on integrating culturally responsive measures and cross-cultural comparisons to strengthen Executive Function models. By including diverse populations such as Indigenous and minority groups, Perla's work addresses gaps in existing research.



Stefany Araoz, Biology

Stefany Araoz, a senior biology major with a concentration in marine biology, is researching the effects of trampling on California mussels (*Mytilus californianus*). Using heart rate sensors, she studies how trampling impacts mussel physiology and the strength of their byssal threads, which are essential for attachment to surfaces. Stefany's work focuses on whether trampling weakens these threads or reduces their production, contributing valuable insights into mussel resilience in coastal ecosystems.



RESEARCH ENTERPRISE HIGHLIGHTS

The following pages highlight the remarkable work of the **Office of Research and Sponsored Programs (ORSP)** and the many accomplishments that have advanced our university's research and service mission. Throughout the year, ORSP has been at the forefront of securing external support for faculty research, creative activities, and institutional projects that directly contribute to the educational goals of our institution. We have worked diligently alongside our campus partners to foster collaboration across disciplines, departments, and with community stakeholders to develop competitive proposals to federal, state, and private funding agencies.

At the heart of our success is the dedication and expertise of the ORSP staff and faculty fellows, whose tireless efforts have been essential to the achievements we celebrate today. From proposal development to submission, post-award support, and research compliance, our staff ensures that all aspects of research and sponsored programs adhere to the highest ethical and regulatory standards.

We are proud of the progress we have made together this year and we remain committed to fostering an environment of excellence in research and sponsored programs.



ORSP Mission Statement

ORSP works with other units throughout the campus to seek external support for faculty research, creative activity, and institutional projects that support the educational and service mission of the university. Collaboration is sought across disciplines, departments, and community partners in preparing proposals to federal, state, and private agencies.

ORSP Structure

Under the Division of Academic Affairs, ORSP is led by an Associate Vice President (AVP) for Research and Sponsored Programs. Over 40 staff, faculty, and students work in the enterprise through 5 distinct areas to support campus research, scholarship, and creative activities. The central ORSP office oversees the ORSP's sub-units, administers budget and HR processing, manages intramural grants, and promotes campus RSCA.

Undergraduate Research Opportunity Center

UROC promotes and expands opportunities for faculty-student research and creative activities that increase student engagement, learning, and success; Identifies and provides resources needed to support student scholars and faculty mentors and enhance campus student research climate; Organizes on-campus events, including Summer Undergraduate Research Academy (SUREA), CSU Student Research Competition (SRC), and Student Creative Activities and Research (SCAR) Day; Increases student participation in off-campus student research competitions (such as SCCUR and NCUR); and provides professional development opportunities for students and faculty mentors.

Research Development

Research Development (ORD) assists faculty in identifying funding sources for their research and creative activity, promotes institutional programming and collaborative grant development. ORD also provides guidance, training, and assistance in preparing high-quality, competitive proposals.

Grants & Contracts

Grants and Contracts (OGC) assists with proposal preparation, review, and submission to external funding agencies; ensures compliance with agency requirements; reviews grant awards and serves as a lead in issuing, reviewing, and negotiating contracts, subcontracts, and related agreements.

Sponsored Programs

Sponsored Programs (OSP) oversees the post-award administration of grants and contracts awarded to the university through the CSU Fullerton Auxiliary Services Corporation. Services include invoicing and grant accounting, submission of required reports (e.g., effort reporting), maintaining records of compliance, handling audits and negotiation of the University's indirect cost agreement.

Research Compliance

Research Compliance ensures university-wide compliance with federal, state, local, and funding agency policies and regulations that involve research and creative activities, including use of human and animal subjects, institutional biosafety, and policies regarding conflict of interest and responsible and ethical conduct of research.

CSUF Receives Nearly \$5 Million U.S. Department of Education Grant to Expand Research Capacity

CSUF's Office of Research and Sponsored Programs was awarded a prestigious **\$4,997,384 grant** from the U.S. Department of Education. The funding is part of the department's annual initiative to support Historically Black Colleges and Universities (HBCUs), Tribal Controlled Colleges and Universities (TCCUs), and Minority-Serving Institutions (MSIs), including Hispanic-Serving Institutions (HSIs) like CSUF.

The grant, part of the broader \$93 million in federal funding allocated nationwide, supports the Research and Development Infrastructure (RDI) Program. This program is designed to provide financial assistance to colleges and universities with the goal of improving their research capacities, promoting faculty expertise, and developing key infrastructure necessary for expanding research opportunities. The ultimate objective is to increase ex-

ternal research funding and foster transformative changes in the academic and research landscapes of these institutions.

CSUF, which is both a Hispanic-Serving Institution and an Asian American and Native American Pacific Islander-Serving Institution, will use the grant to launch its new "Investing Now to Expand Faculty Research Through Capacity Building Program." This initiative focuses on bolstering technology infrastructure to enhance the university's research enterprise. It aims to increase research opportunities for faculty and students, promote interdisciplinary collaborations, and create a thriving environment conducive to high-impact research.

"This highly competitive grant funding will help us enhance our current research development infrastructure and provide support to eventually increase our research productivity and extramu-

ral research funding," said Binod Tiwari, associate vice president for research and sponsored programs at CSUF.

The RDI grant funding reflects the university's ongoing commitment to advancing the academic and research missions of CSUF, particularly in support of its diverse student body.

"I'm glad that the funding agencies rated our projects very high, and as a result, we received funds under both the Research and Development Infrastructure program and the Postsecondary Student Success Grant program — nearly 10% of the total funds available in these programs," Tiwari said.

This funding is crucial for advancing innovative research initiatives and supporting student success, ensuring that valuable projects can continue to make a meaningful impact.

Investing Now to Expand Faculty Research Through Capacity Building: An ORSP Initiative

This four-year initiative is designed to enhance CSUF's research capabilities, with a particular focus on expanding technology infrastructure, fostering cross-disciplinary collaborations, and creating a supportive environment for both faculty and students.

Since receiving the U.S. Department of Education's RDI grant, ORSP has begun the critical work of hiring new staff to support faculty research endeavors, providing increased resources for faculty research, and offering more research opportunities for students. These efforts aim to strengthen faculty research capabilities, promote collaboration across

academic departments, and ensure that students have access to high-impact research experiences that will prepare them for success in both academia and industry.

This funding is a significant step toward building a robust research enterprise at CSUF. It will elevate the university's academic standing, drive innovation, and attract additional external funding. The increased research opportunities and collaborative efforts facilitated by this program are expected to lead to new discoveries and solutions that will benefit not only the university community but also the broader society.

Federal Grant Writing Mentorship Program

In 2020, the Office of Research and Sponsored Programs introduced an initiative aimed at empowering faculty to enhance their grant writing skills. The Federal Grant Writing Mentorship Program, piloted during the 2020 and 2021 academic years, provided 19 faculty members with the tools and support they needed to navigate the complexities of federal research funding.

The program was designed as an intensive, year-long mentorship experience, focusing on one of the most critical aspects of successful research proposals—creating a compelling white paper. White papers serve as essential documents for presenting research ideas clearly and effectively. As part of the mentorship program, faculty were paired with experienced faculty mentors who provided valuable guidance and feedback throughout the year. This personalized mentorship ensured participants remained on track to submit a competitive grant proposal to a federal agency within 12 months. Participants also received consistent feedback from the ORSP's Research Development (ORD) staff, allowing them to refine their white papers and strengthen their proposals. This collaborative process ensured that each proposal was not only clear and compelling but also positioned for success in a competitive grant landscape.

Over the course of the program, faculty engaged in monthly virtual sessions that included group discussions and focused activities. These sessions fostered collaboration, enabling faculty to exchange insights, refine their research ideas, and enhance their grant writing skills. Additionally, the program included a week-long grant writing boot camp where participants put their learned skills into practice by drafting their first polished proposals. This boot camp offered an immersive, hands-on experience, allowing faculty to fine-tune their applications while deepening their understanding of the federal grant writing process. Throughout the program, emphasis was placed on developing a strate-

gic, comprehensive approach to research funding, ensuring faculty were well-prepared to pursue federal grant opportunities effectively.

A highlight of the program was the transformative trip to Washington, D.C., where participants met with federal program officers and presented their white papers. Supported by the U.S. Department of Education's Investing Now to Expand Faculty Research Through Capacity Building grant, four faculty members visited federal funding agencies in spring 2024.

Led by associate vice president of ORSP Binod Tiwari and research development manager Yolanda Uzzell, the trip to Washington D.C. gave participants a unique opportunity to meet with program officers, discuss their projects, and refine their approach based on direct feedback from federal representatives. A particularly notable meeting was with a senior policy advisor from the White House Office of Science and Technology Policy, offering faculty a rare opportunity to engage with high-level officials and discuss the broader implications of their research. These connections were essential, helping participants build relationships that could be important in securing future funding and support.

"This program is invaluable for faculty looking to secure federal funding," said Uzzell. "It not only provides the skills needed to write a successful grant proposal, but meeting with funding agencies also gives participants a crucial perspective on what agencies are specifically looking for in projects. This direct insight is key to positioning their proposals for success."

Building on the success of the Federal Grant Writing Mentorship Program, it has evolved into **Grant Writing Academy 201: Intermediate Grant Writing** to provide advanced strategies for securing federal funding. This program offers expert-led workshops and personalized guidance to help faculty strengthen their proposals and increase their chances of success.



Du (left), Roberts, Herrera, Tiwari, Ghosh, and Uzzell pose in the Eisenhower Executive Office Building.

Program Participants

Roselyn Du, Ph.D.
Professor

Communications
College of Communications

Pratanu Ghosh, Ph.D.
Professor

Civil and Environmental Engineering
College of Engineering and Computer Science

Veronica Herrera, Ph.D.
Associate Professor

Criminal Justice
College of Humanities and Social Sciences

Adam Roberts, Ph.D.
Associate Professor

Psychology
College of Humanities and Social Sciences

GRANT WRITING ACADEMY

Grant Writing Academy 101: A Successful Inaugural Course

In Spring 2024, the Office of Research and Sponsored Programs successfully launched the inaugural Grant Writing Academy 101: Beginning Grant Writing, a course designed to introduce faculty to the foundational skills required for writing successful grant proposals.

Led by Lana Dalley, professor in the department of english, comparative literature, and linguistics, the program was attended by **29 faculty members** from **seven different colleges** across CSUF, including the Library.

The Grant Writing Academy 101 was structured to provide faculty with essential knowledge of grant writing, setting the stage for future courses at intermediate and advanced levels. The course comprised three workshops: two 90-minute virtual sessions and one 6-hour in-person meeting during CSUF's Annual Research Week. During these work-

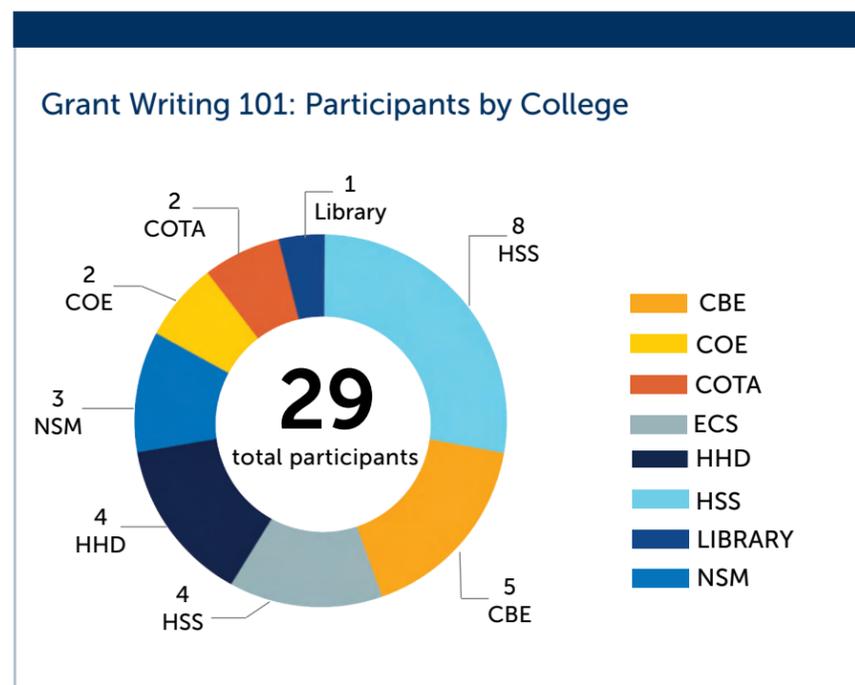
shops, participants were introduced to key elements of grant writing, such as audience engagement, storytelling, and aligning proposals with grant call language.

A central feature of the course was the creation of an 8-page grant proposal template, which participants developed and submitted for feedback. This practical component allowed participants to apply the concepts discussed during the workshops and receive individualized guidance from Dalley.

The feedback from participants was overwhelmingly positive, with many highlighting the practical and hands-on nature of the course. A post-course survey revealed that 91% of respondents felt they were "extremely likely" or "very likely" to submit a grant proposal after completing the program, and 92% found the course either "extremely helpful" or "very helpful." This strong response underscores the effectiveness of the course in equipping faculty with

essential grant writing skills.

About the course facilitator: Lana L. Dalley is a Professor in the Department of english, comparative literature, and linguistics, where she teaches courses in nineteenth-century British literature, feminist literature, writing, and feminist and gender theory. During her time at CSUF, she has served in many different administrative and service capacities, including department cice chair, department chair, and chair of the university research committee. She is the co-editor of the book *Economic Women: Essays on Desire and Dispossession in Nineteenth-Century British Culture*. Her work has appeared in *Victorian Literature and Culture*, *Women's Writing*, *Victorians Institute Journal*, *Victorian Poetry*, *Nineteenth-Century Gender Studies*, and *The Routledge Companion to Literature and Economics*, among others. She is also the editor of a four-volume anthology of primary sources entitled *Women's Economic Writing in the Nineteenth Century* (Routledge).



92% "Extremely Helpful" or "Very Helpful" found the course

"One of the most helpful aspects was learning how to align my proposal with the grant call language, ensuring that my proposal stands out as a comprehensive and responsive solution."

- Faculty Participant

91% "Extremely Likely" or "Very Likely" to submit a grant proposal

Grant Writing Academy 301: Advanced Grant Writing

The Office of Research and Sponsored Programs (ORSP) proudly welcomed the third cohort of the Advanced Grant Writing Academy in Fall 2023, in collaboration with Hanover Research. This year-long program is designed for full-time, mid-career or senior faculty members seeking to strengthen their competitive edge in securing external funding. Participants, selected based on their proven potential and project goals, are guided through an intensive process of revising and resubmitting competitive grant proposals.

Cohort 3 included six distinguished CSUF faculty who engaged in virtual sessions led by Hanover's expert Grant Consultants. Throughout the program, they refined their grant-writing skills, gained valuable insights into the funding landscape, and learned strategies to position their research for success. The academy provided individualized support, including personalized development plans and expert critiques that allowed faculty to significantly elevate the quality of their proposals.

By the end of the program, participants were equipped to submit highly polished, competitive grant proposals to federal agencies. Faculty participants expressed how the tailored feedback and on-going consultations helped them refine their proposals and break down the writing process into manageable steps. This program is an invaluable opportunity for faculty looking to elevate their research and secure impactful grants. Faculty members are encouraged to apply for future cohorts to benefit from expert guidance and comprehensive support.

“

The Advanced Grant Writing Academy provided individualized feedback on my grant proposal from an experienced grant consultant to better align my proposal. Additionally, the meetings with the grant consultant helped me to break down the writing process into manageable steps.

-Jin Woo Lee

The Advanced Grant Writing Academy helped me understand the stages and pieces of submitting an external grant on a deeper level, apply the information, and receive support applying for an external grant (which was funded!)

-Gavin Tierney

”



Lucia Alcala, Ph.D.
Assistant Professor
Psychology

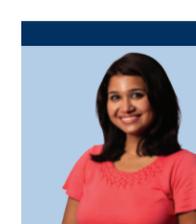


Jin Woo Lee, Ph.D.
Assistant Professor
Mechanical Engineering

(read more about Lee's research on pg. 20)



Rakeshkumar Mahto, Ph.D.
Assistant Professor
Electrical and Computer
Engineering



Ankita Mohapatra, Ph.D.
Assistant Professor
Electrical and Computer
Engineering



Kanika Sood, Ph.D.
Assistant Professor
Computer Science



Gavin Tierney, Ph.D.
Assistant Professor
Secondary Education

CSUF Publication Record by the Numbers

CSUF produced 651 Scopus indexed publications in the calendar year 2023, one of the highest among the CSU campuses. Since 2018, Cal State Fullerton has contributed 3,866 Scopus indexed publications.

651

Total 2023
Scopus indexed
publications

Calendar Year 2023

3,866

Scopus indexed
publications
2018 - 2023

Faculty Scholarly Publication Services



Carrie Lane, Ph.D.
Professor, American Studies

Since its launch in Spring 2020, ORSP Scholarly Publication Faculty Fellowship (SPFF) program has become a transformative force at CSUF, empowering faculty across all eight colleges to refine, revise, and publish their research. In just a few years, the fellowship has supported more than 200 manuscripts, with around half already published and many others under review.

What makes the SPFF program especially impactful is its dedication to providing mentorship and editorial support to underrepresented faculty. In the 2023-2024 academic year alone, **88% of participants identified as female**, and **84% were faculty of color**—groups often underrepresented in the academic publishing world. The SPFF offers these faculty members a much-needed platform

to overcome barriers in the peer-review process, helping to amplify voices that might otherwise go unheard.

Beyond individual manuscript support, the SPFF plays a crucial role in fostering faculty community and collaboration. The fellowship has served as the on-site editor for the CSUF Faculty of Color Learning Community Gift of Time Writing Retreats, held once each semester, providing faculty with dedicated time and support for writing and revision. Additionally, the SPFF has expanded its services to include editorial assistance for faculty preparing sabbatical applications, ensuring that more faculty have the tools they need to succeed in their professional endeavors.

Carrie Lane, professor of American studies, who has been the driving force behind the SPFF program since its inception, reflected on her experience, saying, "It has been a joy and an honor to work with colleagues across campus to help them achieve their publication and promotion goals."

As Lane steps down to become chair of the department of American studies, the program enters an exciting new chapter with Natsuki Atagi, associate professor of child and adolescent Studies, taking on the role of SPFF starting in August 2024. ORSP is thrilled to continue providing this essential service to our faculty and looks forward to further enhancing CSUF's outstanding reputation for high-quality, peer-reviewed scholarship.

Faculty who requested support in FY 2023-24

44%
Assistant
Professors

24%
Associate
Professors

20%
Full
Professors

12%
Lecturers

RESEARCH WEEK: April 22-26, 2024

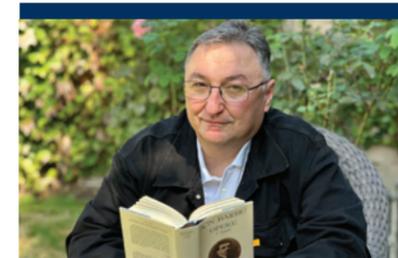
ORSP's Annual Research Week 2024 was filled with learning, networking, and celebrating the spirit of research and creativity. The five-day event, which took place from April 22-26, not only celebrated the achievements of CSUF researchers, but it also aimed to inspire future innovation, encourage collaboration, and highlight the transformative work happening on campus.

The week began with an insightful presentation by Dr. Simon Kim, Associate vice president for research and economic development at California State University, Long Beach, on encouraging active engagement in research among faculty and students.

On Thursday, Dr. Bogdan Suceavă, the recipient of Cal State Fullerton's 2023 L. Donald Shields Excellence in Scholarship and Creativity Award, delivered a captivating lecture titled *Between Two Worlds: Geometry and Storytelling*.

Throughout the week, participants engaged in a variety of events, including faculty panels, presentations from Centers and Institutes, discussions on navigating research compliance, and workshops such as "Building Strong Grant Collaborations Workshop." These sessions provided invaluable tools and guidance for researchers at all stages.

The week wrapped up with the much-anticipated PI Faculty Recognition Awards Ceremony, where the achievements and contributions of our principal investigators were celebrated. This ceremony recognized faculty members for their outstanding research and dedication to advancing scholarship across various disciplines, bringing the event to a fitting close.



Bogdan Suceavă



Sagil James and Joshua Yang



Matt Engler-Carlson



N.L. Brown



Elizabeth Pillsner



Tien Nguyen and Charles Lee



Brianna Harvey and Provost Dabirian



Sachel Villafane-Garcia

KEY METRICS

The data outlined in the following section reflects not only our fiscal year performance but also broader, multi-year trends that demonstrate the impact of the university's strategic plan for the past five years. By presenting key metrics related to external submissions, internal funding, and research compliance, we aim to provide a transparent summary of the activities and progress made in these critical areas.

These figures offer a clearer understanding of the significant strides taken by the Office of Research and Sponsored Programs towards advancing the university's mission to foster research, scholarly, and creative activities while also ensuring compliance with regulatory standards.

College/Division Acronyms

CBE	College of Business and Economics
CCOM	College of Communications
COE	College of Education
COTA	College of Theater and Arts
ECS	College of Engineering and Computer Science
HHD	College of Health and Human Development
HHS	College of Humanities and Social Sciences
NSM	College of Natural Sciences and Mathematics
VPAA	Division of Academic Affairs Units
VPAF	Division of Administration and Finance Units
VPSA	Division of Student Affairs Units
ASI	Associated Students, Inc.

Intramural Funding Metrics

The Office of Research and Sponsored Programs offers a variety of intramural grant funding opportunities designed to foster professional development for faculty and staff, while supporting student research initiatives. In fiscal year 2023-24 ORSP awarded almost **\$1 million** in intramural funding.

Intramural Programs

Research, Scholarly, and Creative Activities (RSCA):

Supports faculty in pursuing individual or collaborative research projects, enhancing scholarly, creative, and academic work.

Junior/Senior Faculty Funding:

Provides financial support for junior and senior faculty members to develop and enhance their research programs, while facilitating career advancement and scholarly contributions.

Faculty and Student Travel:

Supports travel for faculty and students to attend conferences, workshops, or conduct research.

Summer Undergraduate Research Academy (SUREA):

Offers funding for undergraduate students to participate in intensive summer research and creative projects with faculty mentors.

Titans Thinking Together (T³):

Encourages interdisciplinary collaboration among faculty on joint research and creative initiatives.

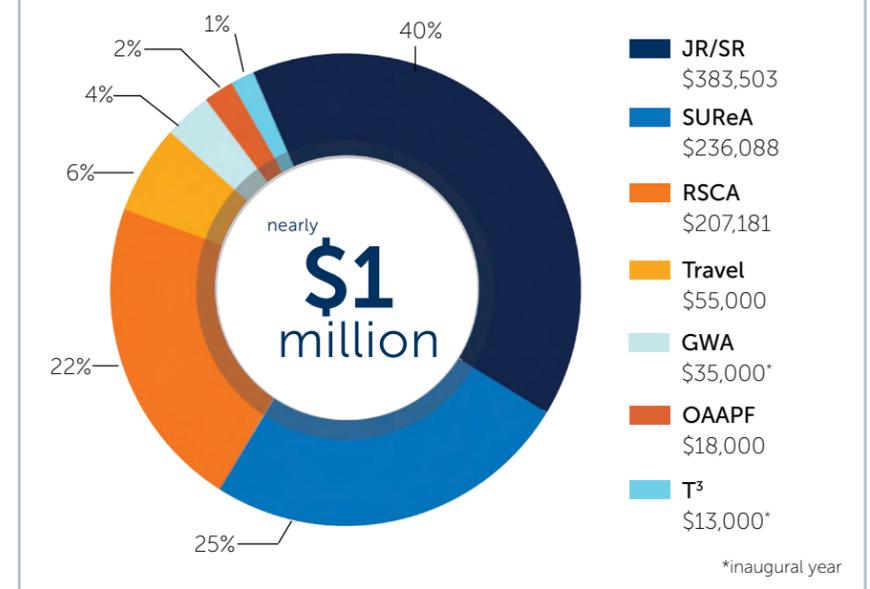
Open Access Article Publishing Fund (OAPF):

Supports faculty and staff in covering the costs of publishing in open access journals.

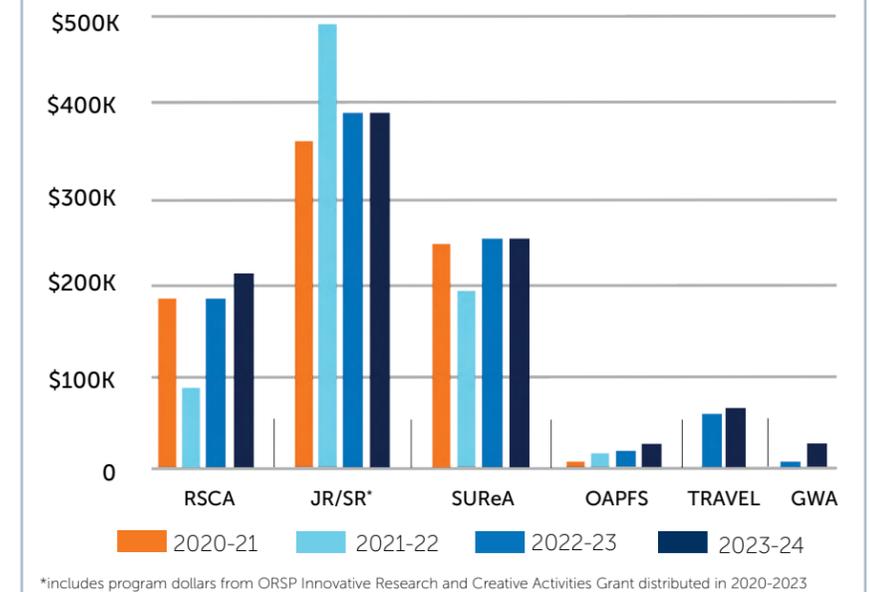
Grant Writing Academy (GWA):

Provides training and resources for faculty to enhance their grant writing skills and helps participants build competitive proposals for external funding opportunities.

2023-24 Intramural Grants by Type



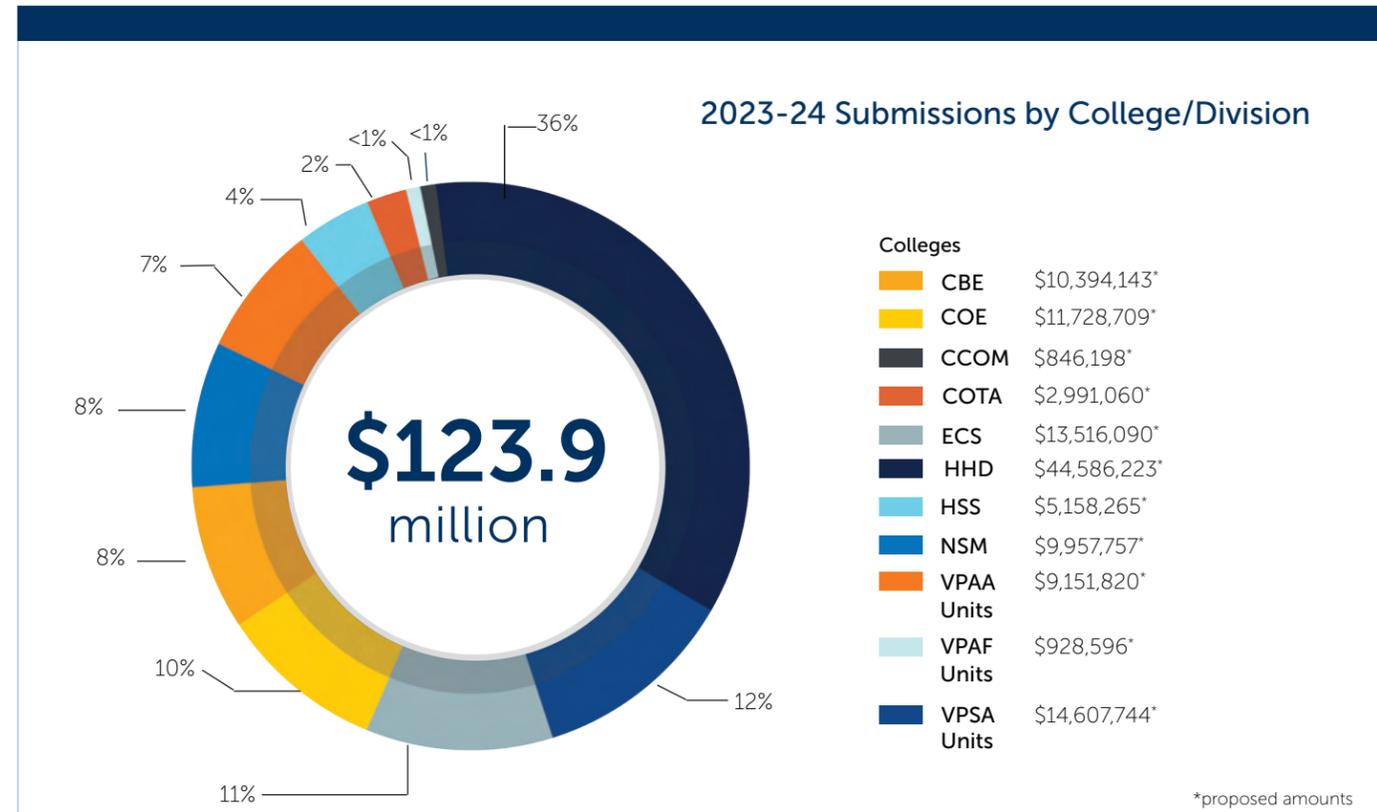
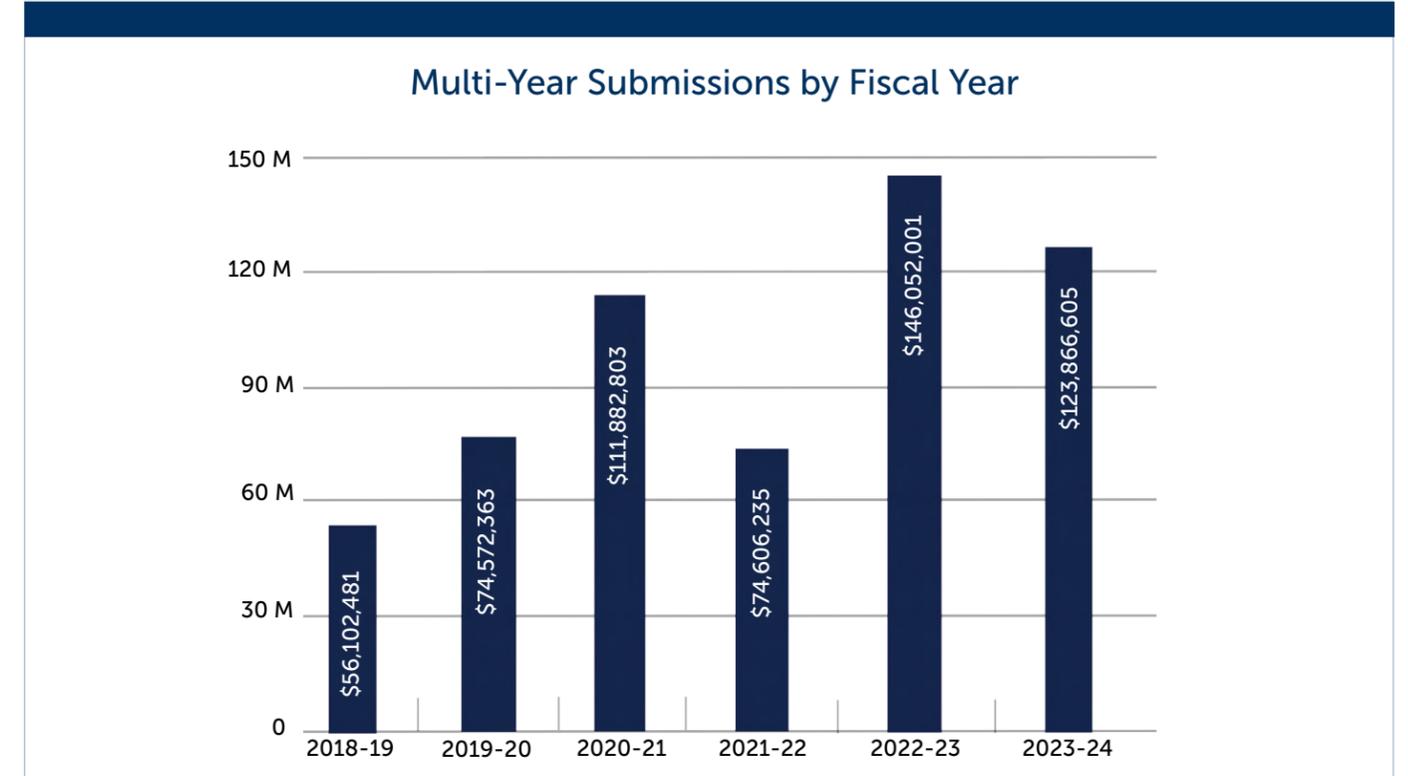
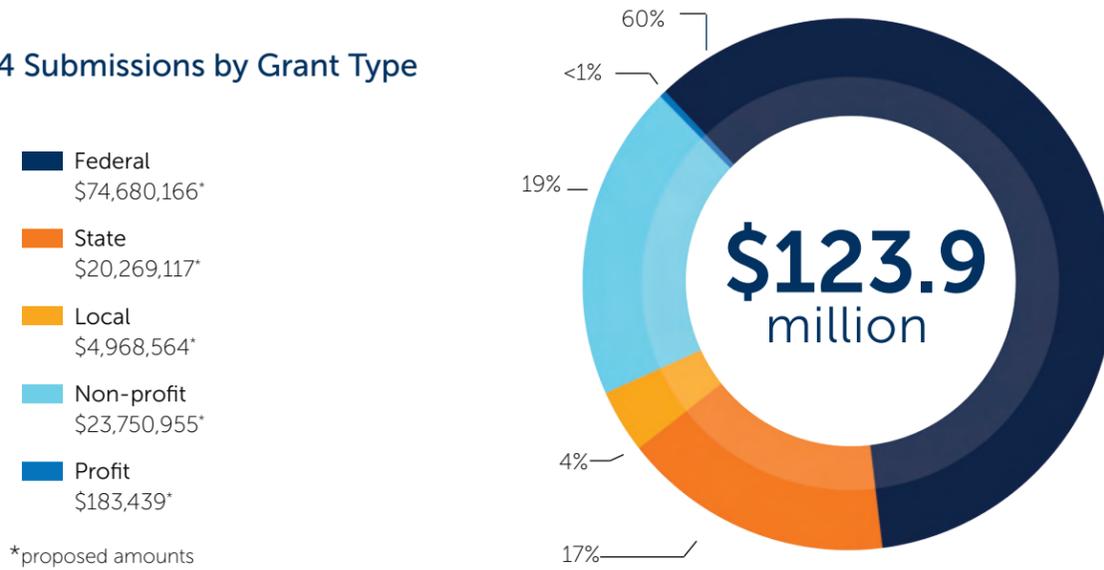
Multi-Year Intramural Grants by Type



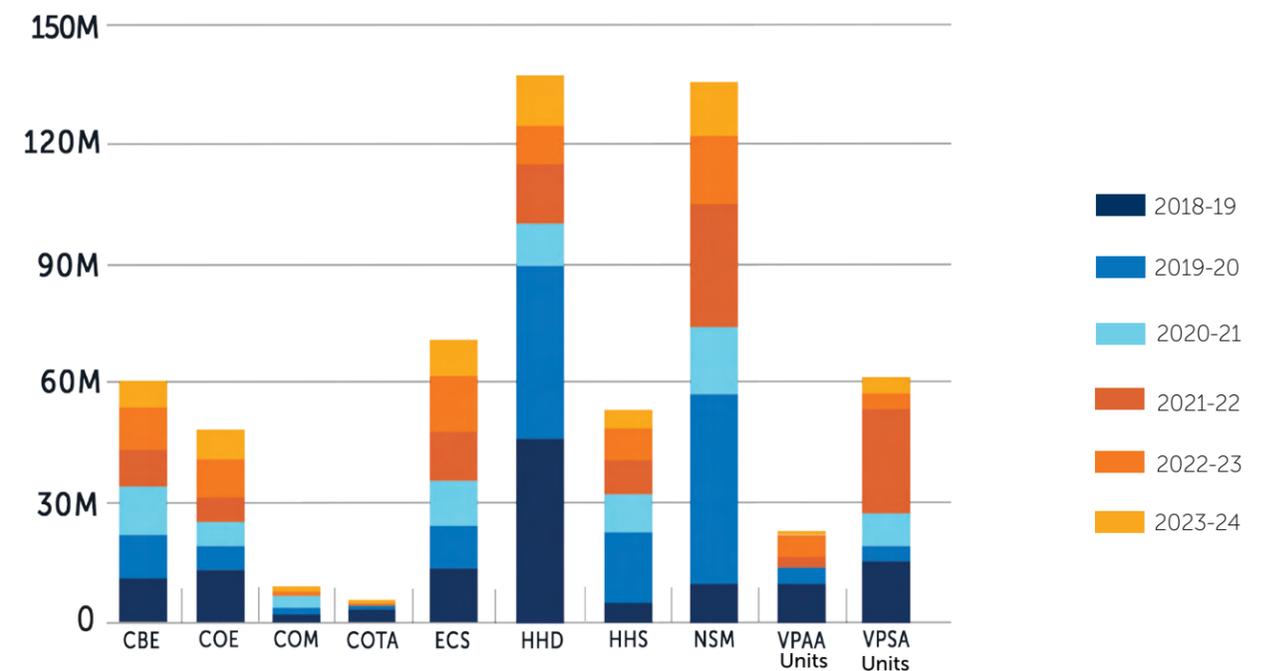
Submissions Snapshot - Extramural

In FY 2023-24, external grant submissions continued to reach nearly \$124 million, reflecting CSUF's commitment to advancing research, scholarly, and creative initiatives.

2023-24 Submissions by Grant Type



Multi-Year Submissions by College/Division



Research Compliance Metrics

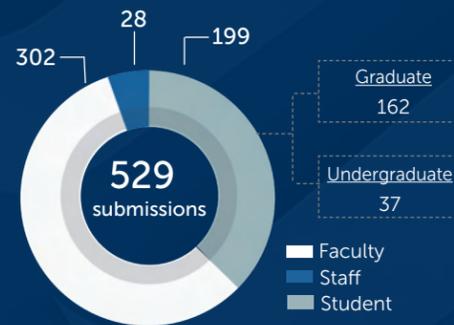
Institutional Review Board (IRB)

During the 2023-24 academic year, the IRB staff and committee members reviewed and approved a total of **529** protocol submissions. The number of protocols reviewed/approved consists of all the initial, modification, renewal, closure, and incident submissions forwarded to the Office of Research Compliance for review via Cayuse Human Ethics (IRB).

529

total protocol submissions

2023-24 Submissions by PI



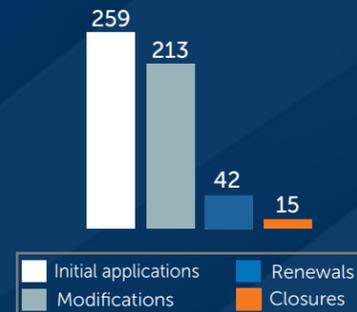
2023-24 Submissions by College



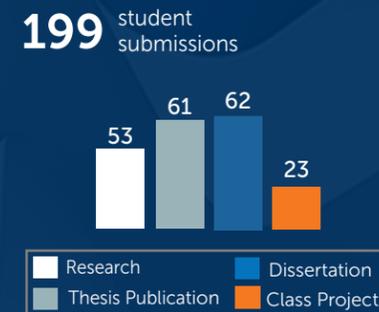
Review Type



Submission Type



Student Submission Type



5-Year IRB Metrics

3,304

5-year protocol submissions

2,010

5-year faculty submissions

112

5-year staff submissions

1,182

5-year student submissions

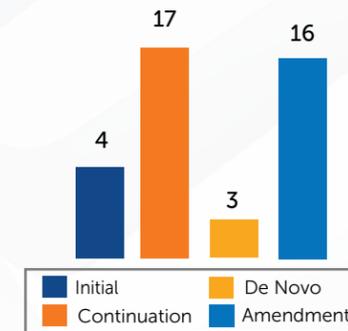
Institutional Animal Care and Use Committee (IACUC)

During the 2023-24 academic year, the IACUC processed and approved **40** submissions.

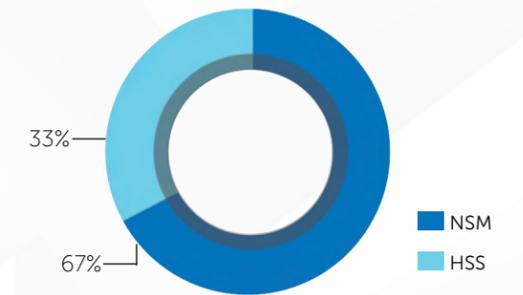
40

total submissions

Submissions by Protocol Type



Submissions by College



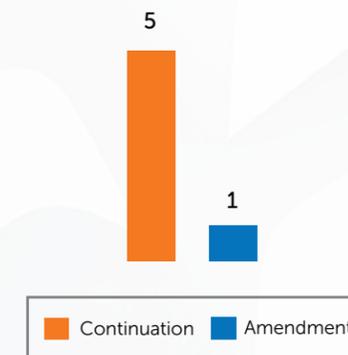
Institutional Biosafety Committee (IBC)

During the 2023-24 academic year, the IBC processed and approved **6** submissions.

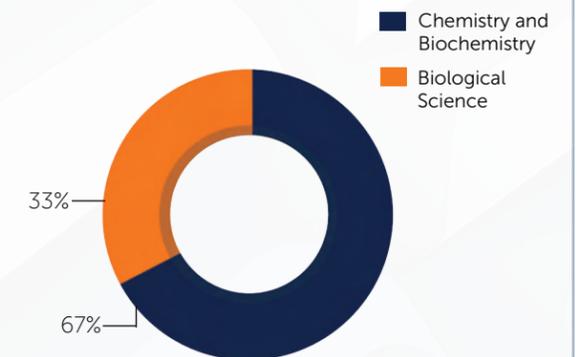
6

total submissions

Submissions by Protocol Type



Submissions by Department



Fiscal Year 2023-24

Grants, Contracts, and Fellowships

College of Business and Economics (CBE)

Maria Casanova
Michigan Retirement and Disability Research Center FY 24-FY28
Regents of the University of Michigan
\$71,250

Michael Daniel
2023-24 Orange County Women's Business Center
U.S. Small Business Administration
FY 23/24: \$150,000
Multi-Year: \$300,000

OCIE SBDC GO-BIZ CIP 23-24
California Office of the Small Business Advocate, Governor's Office of Business and Economic Development
\$590,830

Women's Business Center - CALOSBA Tap
Southwestern Community College District
\$90,000

SBDC SSBCI (State Small Business Credit Initiative)
California Office of the Small Business Advocate, Governor's Office of Business
\$1,500,000

SBDC Contract with the City of Tustin
City of Tustin
FY 23/24: \$20,000
Multi-Year: \$60,000

OCIE SBDC GO-BIZ TAP 23/24
California Office of the Small Business Advocate, Governor's Office of Business
\$2,250,000

Business Education and Coaching Consulting Services for the Economic Development Department
City of Anaheim
\$100,000

Orange County Inland Empire Small Business Development Center CY 2024
U.S. Small Business Administration
\$3,034,672

Adrian Fleissig
Revenue Forecasting
County of Orange
\$52,500

Shadi Goodarzi
Overcoming Junction Resistances in Carbonaceous Conductors
University of California, San Diego
FY 23/24: \$32,468
Multi-Year: \$107,152

Yinfel Kong
From Workforce Diversity to Key Cultural Competency Strategies to End Racial Disparities in Opioid Treatment Outcomes in the Nation
Texas A&M University
FY 23/24: \$55,107
Multi-Year: \$274,703

Desen Lin
Vacant Lot Greeting as a Long-Term Investment in Legacy Cities? Evidence from the Landcare Program in Philadelphia
Lincoln Institute of Land Policy
\$26,965

Anil Puri
Taxable Sales/Economic Forecast for Orange County (CY 2024 & 2025)
Orange County Transportation Authority
\$25,000

College of Education (COE)

Ding-Jo Currie
Leadership Institute for Tomorrow (L.I.F.T)
Rancho Santiago Community College District
\$1,096,696

Pablo Jasis
CSUF-HEP
U.S. Department of Education
FY 23/24: \$474,039
Multi-Year: \$2,370,190

Janice Myck-Wayne
Project Activity Based Communication (ABC)
U.S. Department of Education
FY 23/24: \$250,000
Multi-Year: \$1,250,000

Dawn Person
Educational Study
California Lutheran University
FY 23/24: \$4,099
Multi-Year: \$54,099

Chess Program Study (Supplement)
California Lutheran University
FY 23/24: \$9,581
Multi-Year: \$109,581

Natalie Tran
Long Beach Unified School District - Khmer Language Program
Long Beach Unified School District Office of Multilingual Services
\$15,725

National Resource Center for Asian Languages
U.S. Department of Education
FY 23/24: \$163,994
Multi-Year: \$655,976

Natalie Tran and Fernando Rodriguez-Valls
Educator Workforce Investment Grant (EWIG) Program: Effective Language Acquisition Programs Grant - Mandarin and Korean
Los Angeles Office of Education (LACOE)
\$205,000

Nancy Watkins and Joyce Gomez Najarro
Training for K-12 School Administrator and Teachers to Address Tension at Schools Associated with Allegations of Discrimination
State of California, Office of Civil Rights
\$150,000

College of Engineering and Computer Science

Doina Bein and Beth Harnick-Shapiro
Transfer Pathways Grant
Northeastern University
\$233,525

Jin Woo Lee
Advancing Undergraduate Engineering Education: Tools to Develop Engineering Design Skills that Consider Social, Economic, and Environmental Factors
The Regents of the University of Michigan
FY 23/24: \$16,394
Multi-Year: \$39,982

Student-Centered Entrepreneurial Design Education to Foster Engineering Attitudes, Identities, and Motivations
National Science Foundation
\$298,779

Rakeshkumar Mahto and Kanika Sood
Luminate: Leveraging Machine Learning/Artificial Intelligence for Responsive and Equitable Teaching and Engagement
Trustees of the California State University
\$108,242

Sang June Oh
Dwight David Eisenhower Transportation Fellowship Program (DDETFP) Local Competition at Designated Institutions of Higher Education
U.S. Department of Transportation
\$25,500

College of Health and Human Development (HHD)

Sadeeka Al-Majid
Scholarships for Disadvantaged Students
Health Resources and Services Administration
FY 23/24: \$1,000,276
Multi-Year: \$3,830,217

Katherine Bono
Fullerton Resilient Families Program
City of Brea/ North Orange County Public Safety Collaborative
\$175,000

Phillip Gedalanga
Generation, Impacts and Treatment for Particulate Pollutants from Road Wear and Thermoplastic Paint Markings
California State University, Long Beach Research Foundation
\$50,000

David Hart
The Mentored Internship Program (MIP)
Phoenix Houses of Los Angeles, Inc.
\$5,000

Melanie Horn Mallers and Katherine Bono
Fullerton Resilient Families Program
Orange County Head Start, Inc.
\$69,948

Fullerton Resilient Families Program
Fullerton School District
\$18,421

Danny H. Kim
Occupational and Environmental Exposures and Work Practices for Nanomaterials and Electronic Products

The Regents of the University of California
FY 23/24: \$8,763
Multi-Year: \$43,943

Mikyong Kim-Goh and Duan Tran
Orange County Behavioral Health (OCBH) MSW Stipend Program
CalOptima Health
\$5,000,000

Mikyong Kim-Goh and David Chenot
Behavioral Health Workforce Education and Training Program
Health Resources & Services Administration
FY 23/24: \$477,107
Multi-Year: \$1,906,652

Mikyong Kim-Goh
CALSWEC Title IV-E Program
The Regents of the University of California, Berkeley
FY 23/24: \$1,507,964
Multi-Year: \$3,015,928

Alice Lee and David Chenot
Health Professions Careers Opportunity Program - Pipeline Program
California Department of Health Care Access and Information
\$3,035,422.50

Michelle Martin and Grace Yi
Adult Protective Services (APS) MSW Training Program
The Regents of the University of California, Berkeley
\$156,875

Michelle Martin and Brittany Eghaneyan
Public Behavioral Health MSW Training Program
The Regents of the University of California, Berkeley
\$433,250

Tabashir Nobari
Addressing Food Insecurity and Dietary Behaviors Among College Students at Minority Service Institutions in the United States
The Administrators of the Tulane Educational Fund DBA Tulane University
\$104,092

The Impact of CalFresh Expansion on Food Insecurity and Performance Among Higher Education Students
The Regents of the University of California
\$46,927

Jennifer Piazza and Laura Zettle-Watson
Multidimensional Aging Science Program: MSTEM Scholars Trained in Aging Research
National Institutes of Health

FY 23/24: \$325,034
Multi-Year: \$1,542,890

Mojgan Sami
The Role of Momentary Acute Discrimination and Cultural Resilience in Polysubstance Use Among Adults from Communities of Color
University of Southern California
FY 23/24: \$43,912
Multi-Year: \$91,665

Angela Sojobi
Midwifery Re-Diversification for Health Equity in California
The Regents of the University of California
FY 23/24: \$32,488
Multi-Year: \$178,089

Song-Brown FNP-PA-Midwifery Primary Care Workforce Grant
Department of Health Care Access and Information (HCAI)
\$91,000

Song-Brown FNP-PA-Midwifery Primary Care Workforce Grant
Department of Health Care Access and Information (HCAI)
\$225,000

Jennifer Thompson
Nurse Anesthetist Traineeships
Health Resources and Services Administration
FY 23/24: \$25,767
Multi-Year: \$96,568

Penny Weismuller and Stephanie Vaughn
Nursing Workforce and Services Administration
Health Resources and Services Administration
FY 23/24: \$554,729
Multi-Year: \$2,304,299

Michelle Wood
Earthquake Early Warning, IPAWS, and Over-Alerting: Collaborative Research with California State University Fullerton and University at Albany
U.S. Department of Interior
\$99,999

Joshua Yang
Adverse Events from Tobacco/Nicotine Dependence and Impacts On Cancer Patient Clinical Experiences
The Regents of the University of California, San Diego
FY 23/24: \$16,330
Multi-Year: \$63,954

Joshua Yang and Kevin Cummins
Influence of Emerging Alternative Products on Transitions in Nicotine and Cannabis Product Use

The Regents of the University of California, Office of the President
\$1,231,978

College of Humanities and Social Sciences (HSS)

Deborah Diep
Development of Demographic Data and Support Projects
Orange County Interests
\$2,702,324.37

Joshua DiPaolo
Promoting Wrongness Admission by Targeting Reputation Concerns, Social Learning, and Perspective Taking
University of Houston
\$15,324

Sheryl Fontaine and Lisa McAllister
California Global Education Project at CSU Fullerton
The Regents of the University of California, Office of the President
\$35,000

CSMP-CISP-Fullerton-State Funds (2023-24)
The Regents of the University of California, Office of the President
FY 23/24: \$40,000
Multi-Year: \$80,000

Natalie Fousekis
Pandemic Voices from the Richman Neighborhood
National Endowment for the Humanities
\$132,462

Laura Gil-Trejo
Bay Area Rent Stabilization Study
City of Richmond Rent Board
\$500

Evaluating an Equitable Access Collaborative Flood Modeling Paradigm
University of Miami
\$30,225

Northstar (System to Access Resources) OC Collaborative
One OC
\$349,967

Proposition 99 Public Opinion Survey Services
The County of Orange Health Care Agency
\$157,625

2/2 CSUF/UCI-CFCCC Cancer Health Equity Research Partnership
The Regents of the University of California
FY 23/24: \$8,220
Multi-Year: \$52,060

Evaluation of the North Orange County Public Safety Collaborative:Year 6
City of Brea/ North Orange County Public Safety Collaborative
\$218,710

Brianna Harvey
Challenging Anti-Blackness in Education: Amplifying the Voices of Black Foster Youth Students Through Counter-Storytelling
The Regents of the University of California, Berkeley
\$34,431

Sara Johnson
The U-Acre Project: Instilling Leadership, Resilience, and Research Skills to Prepare Students at Hispanic Service Institutions for Careers in Food and Agriculture
National Institute of Food and Agriculture/ USDA
\$399,999

Edward Knell
Pedestrian Survey and Lithic Technological Analysis at Opal Lake, a Small Mohave Desert Pluvial Lake
Anza-Borrego Foundation
\$5,000

Maged Mikhail
The Deteriorating Status of Coptic Women in Medieval Christian Egypt as Reflected in Copto-Arabic Hagiography
Fordham University
\$30,000

Yuko Okado
Career: Improving Persistence of Underserved Students in Psychological Science Using an AI-Based, Personalized Career Exploration Platform
National Science Foundation
FY 23/24: \$403,280
Multi-Year: \$979,212

Christine Scher
Mentored Internship Program
Norooz Clinic Foundation
\$21,000

Stacy St. James
South Central Coastal Information Center-OHP Cooperative Agreement 2022-23
State Department of Parks and Recreation
\$1000

South Coast Coastal Information Center-OHP Cooperative Agreement 2023-24
California State Historic Preservation Officer
\$1000

College of Natural Sciences and Mathematics (NSM)

Wylie Ahmed
Collaborative Research: RUI: IRES Track I: From Fundamental to Applied Soft Matter: Research Experiences in Mexico
National Science Foundation
\$24,910

Sinan Akciz
Geolgocial Mapping of the Borrego Springs Shear Zone in Anza Borrego Desert State Park
U.S. Department of the Interior
\$59,539

Collaborative Research: RAPID: Fault Rock and Spring Sampling of the 2023 Kahraman-maras, Turkey, Earthquake Sequence Ruptures
National Science Foundation
\$10,738

Sam Behseta and Jessica Jaynes
Collaborative Research: HDR DSC: Data Science Trainign and Practices Preparing a Diverse Workforce via Academic and Industrial Partnership
National Science Foundation
FY 23/24: \$188,492
Multi-Year: \$606,492

Jennifer Burnaford
2023 Assessment of Rocky Intertidal Habits for the California Marine Protected Area Monitoring Program
The Regents of the University of California; University of California, Santa Cruz
\$23,020

Safety Zone Rocky Intertidal Biodiversity Surveys at San Clemente Island
U.S. Department of the Navy
FY 23/24: \$119,196
Multi-Year: \$236,856

Merri Lynn Casem and William J Hoese
Establishing Roots to Grow STEMs: Affirming Stem Identiy, Building Community, and Improving Graduation Rates Through Multidisciplinary Lower Division Curriculum
National Science Foundation
FY 23/24: \$247,917
Multi-Year: \$1,442,644

Julia Chan and Sachel Villafane-Garcia
An Investigation of Synergistic Effects of Discipline-Based Growth Mindset And Effective Learning Strategies Interventions in Gateway Chemistry Courses
National Science Foundation
\$133,963

Esther Chen
Regulation of the Sinohizobium Melloti Exos/Chyl Signaling Pathway Critical for Host Infection
National Institutes of Health
FY 23/24: \$106,500
Multi-Year: \$426,000

Joya Cooley
Interrigating "Cool" Pigments As A Heat Island Mitigation Strategy
Social Science Research Council
\$7,125

Understanding the Role of Chemical Pressure on Thermal Expansion Tunability in Earth-Abundant Materials
Department of Energy
FY 23/24: \$396,951
Multi-Year: \$592,852

Math Cuajungco and Veronica Jimenez
U-RISE at Cal State Fullerton
National Institutes of Health
FY 23/24: \$334,652
Multi-Year: \$1,673,260

Megan Drangstveit and Sang June Oh
Project RAISER (Regional Alliance in STEM Education Refined)
.U.S. Department of Education
FY 23/24: \$999,896
Multi-Year: \$4,995,710

Douglas Eernisse
Transfer of Eernisse Lab Research Specimens to California Museums
California Institute of Biodiversity (CIB)
\$22,250

Kristy L. Forsgern
Histopathology of Flatfishes from OCS D Reference and Wastewater Outfall Sites
Orange County Sanitation District
FY 23/24: \$23,650
Multi-Year: \$118,327

Biology Through Art: An Innovative, Interdisciplinary Approach to Teaching Biology
National University
FY 23/24: \$11,177
Multi-Year: \$61,177

Elaine Frey
Filtration in Megamouth Sharks
National Science Foundation
\$49,000

Do Shallow Carbonates Record Changes In the Global Carbon Cycle?
National Science Foundation
\$46,000

Allyson Fry-Petit
EAGAR: In Situ Determination of Synthetic Intermediates - Investigation the Path to Lead Apatite Room Temperature Superconductors
National Science Foundation
\$299,990

Michael Groves
Interface Engineering For Diamond Based Electronics
The Rector and Visitors of the University of Virginia
FY 23/24: \$47,719
Multi-Year: \$176,068

Michael Groves and Ryan Cammarota
Developing an Underrepresented Research Student Pipeline Between CSUF and C-CAS
National Science Foundation
\$198,692

Zair Ibragimov
California State University Louis Stokes STEM Pathways and Research Alliance (CSU_LLSAMP) (2018-2024)
University Enterprises, Inc.
FY 23/24: \$40,000
Multi-Year: \$135,000

Cherie Ichinose and David Pagni
Recruiting and Transitioning Mathematics Majors Into Teaching
National Science Foundation
FY 23/24: \$769,731
Multi-Year: \$1,199,929

Jessica Jaynes and Sam Behseta
Project PIPE-LINE (Programs for Institutional Pathway Engagement - Accelaerating Infrastructure and Education)
The Foundation for California Community Colleges
\$1,275,000

Hope Johnson
The Production and Mobility of DDT Metabolites Within Sediments As Controlled By the Local Diagenetic Environment
University of Southern California
\$34,999

Matthew Kirby
Collaborative Research: Using A Combined Basin Analysis, Isotopic, and Modeling Approach to Reconstruct the LGM Through Early Holocene Hydroclimate for Glacial Lake Mojave
National Science Foundation
\$225,073

Sean Loyd and Adam Wood
EA/ED: Acquisition of A Carbon Dioxide

and Methane Cavity Ringdown Spectrometer for Education and Research
National Science Foundation
\$122,152
Terrence McGlynn
Planning: Strategic Planning Workshop for the CSU Desert Studies Center
National Science Foundation
\$25,877

Tien M. Nguyen and Charles Lee
Low Swap-Cost Scalable and Resilient Onboard Cislunar PNT System
Intelligent Fusin Technology, Inc.
\$24,000

Nikolas Nikolaidis
Interaction Between HSPA1A A Seventry-KDA Heat Shock Protein, and Lipids in Stressed Cells
National Institutes of Health
FY 23/24: \$106,500
Multi-Year: \$426,000

David Pagni
CSU/UC Mathematics Diagnostic Testing Project (MDTP)
Regents of the University of California, San Diego
FY 23/24: \$91,430
Multi-Year: \$267,974

David Pagni and Andrea Guillaume
California Mathematics Projects at CSU Fullerton (CMPF) 2023-2024
Regents of the University of California, Office of the President
FY 23/24: \$36,635
Multi-Year: \$52,635

Gina Passante
Collaborative Research: The Impact of Instruction on Student Thinking about Measuring in Classical and Quantum Mechanics Experiements
National Science Foundation
\$194,578

Stevan Pecic
Designed Multiple Ligands As Non-Opiod Analgesics for Treating Chronic Pain
National Institutes of Health
FY 23/24: \$207,683
Multi-Year: \$650,410

Andrew Petit
Using Computation to Explore New Directions in the Photochemistry of Photobases
The American Chemical Society
\$70,000

Jocelyn Read and Philippe Landry

RUI: Neutron-Star Matter in the Ligo A+ Era and Beyond
National Science Foundation
FY 23/24: \$74,956
Multi-Year: \$224,468

Nicholas Thomas Salzameda

Synthesis and Evaluation of Peptidomimetics to probe the Active Site of the Botulinum Neurotoxin to Discover Therapeutic Leads for the Treatment of Botulism
National Institutes of Health
FY 23/24: \$131,248
Multi-Year: \$415,248

Shoo Seto

Geometric Analysis of Riemannian Manifolds
American Mathematical Society
FY 23/24: \$3,600
Multi-Year: \$10,800

Joshua Smith

Data Handling and Analysis Infrastructure for Gravitational-Wave Astronomy
University of WI-Milwaukee
FY 23/24: \$179,923
Multi-Year: \$720,000

Joshua Smith and Geoffrey Lovelace

Planning Proposal: Crest Center for Gravitational-Wave Physics and Astronomy
National Science Foundation
\$200,000

Collaborative Research: Identifying and Evaluating Sites for Cosmic Explorer
National Science Foundation
\$904,704

Maria Soledad Ramirez

Identifying Host Human Products Responsible for Natural Transformation of Resistance Traits in *Acinetobacter* SPP
National Institutes of Health
FY 23/24: \$106,500
Multi-Year: \$426,000

Roberto Soto

The Facilitated Graduate Applications Process (F-GAP) Coordinator
Purdue University
\$44,204

Marcelo Tolmasky

LA Basin CSU MHRT Program
National Institute of Health
FY 23/24: \$236,028
Multi-Year: \$1,077,210

parities Research Program (CHERP)
National Institute of Health
FY 23/24: \$96,028
Multi-Year: \$905,787

Sachel Villafane-Garcia

Collaborative Research: Supporting Chemistry Students' Science Practices Self-Efficacy
National Science Foundation
\$197,819

Danielle Zacherl

Oyster Monitoring Associated with San Diego Bay Native Oyster Living Shoreline Project
San Diego Unified Port District
FY 23/24: \$40,913
Multi-Year: \$125,000

Division of Academic Affairs Units (VPAA)**James "JC" Cavitt**

Building Postsecondary Educational Pathways for Juvenile Justice System-Involved Youth
City of Brea/North Orange County Public Safety Collaborative
\$100,000

Katherine Powers

Project UPGRADS: Utilizing and Promoting Graduate Resources and Access for Disadvantaged Students
U.S. Department of Education
FY 23/24: \$598,675
Multi-Year: \$2,993,375

Romarilyn Ralston

Project Rebound - Yerba Buena Fund 23-24
Yerba Buena Fund
\$125,000

Binod Tiwari and Yolanda Uzzell

Investing Now to Expand Faculty Research Through Capacity Building
U.S. Department of Education
\$4,997,384

Yuying Tsong

Building Transformational Cultures of Data Use for Student Success
Trustees of the California State University
\$30,000

Fullerton Rises: Re-imagining Success for Every Student
U.S. Department of Education
\$3,999,436

Yuying Tsong and Martha Enciso

Fullerton ASPIRE: Access, Support, Pathways, and Inclusive Resources for Everyone
San Diego Unified Port District
FY 23/24: \$599,974
Multi-Year: \$2,999,870

Division of Administration & Finance (VPAF)**David Hess**

Restroom Efficiency Renovation
California Energy Commission
\$606,321

John Ramirez

Beverage Container Recycling Project
California Environmental Protection Agency
FY 23/24: \$46,531
Multi-Year: \$275,000

Division of Student Affairs Units**Adriana Badillo and Raymond Lu**

City of Anaheim - Internship Program
City of Anaheim
\$83,596

Alyssa Hernandez

CSU Fullerton, TRiO Student Support Services
U.S. Department of Education
FY 23/24: \$361,922
Multi-Year: \$1,753,930

Macy Dawn

Jumpstart 2023-2024
Jumpstart for Young Children, Inc.
\$125,786

Macy Dawn and Christopher Perez

BPSD Summer ELOP Program 2024
Buena Park School District
\$482,319

Buena Park School District Titans After School Program ASES
Buena Park School District
\$875,508

Buena Park School District Titan After School Program E-LOP
Buena Park School District
\$465,467

BPSD Titans After School Program ASES 2023-2024
Buena Park School District
FY 23/24: \$19,227
Multi-Year: \$894,735

BPSD Titans After School Program E-LOP

2023-2024
Buena Park School District
FY 23/24: \$117,314
Multi-Year: \$582,781

Carlos Olmedo

CSUF Talent Search
U.S. Department of Education
FY 23/24: \$341,550
Multi-Year: \$1,655,202

CSUF Talent Search - Anaheim
U.S. Department of Education
FY 23/24: \$288,470
Multi-Year: \$1,397,970

Tonantzin Oseguera

Gear Up 2018-2025
U.S. Department of Education
FY 23/24: \$1,119,979
Multi-Year: \$7,459,721

Tonantzin Oseguera and Adriana Badillo

CSUF Gear Up East
U.S. Department of Education
FY 23/24: \$1,337,600
Multi-Year: \$8,908,800

CSUF Gear Up Fullerton
U.S. Department of Education
FY 23/24: \$618,400
Multi-Year: \$4,188,400

Tonantzin Oseguera, Adriana Badillo, and Jessica Barco

California Colleges Guidance Initiative ("CCGI")
The Foundation for California Community Colleges
\$87,250

Tonantzin Oseguera and Patricia Literte

CSUF MCNAIR
U.S. Department of Education
FY 23/24: \$272,364
Multi-Year: \$1,361,820

Diana Vasquez and Tonantzin Oseguera

CSUF Upward Bound
U.S. Department of Education
FY 23/24: \$757,974
Multi-Year: \$3,673,258

A Special Thanks to Our Extramural Grants Submission PIs

CBE

Michael Daniels
 Shadi Goodarzi
 John Jackson
 Yinfei Kong
 Daoji Li
 Han Na Lim
 Desen Lin
 Anil Puri

CCOM

Bey-Ling Sha

COE

Abigail Amoako Kayser
 Ding-Jo Currie
 Eugene Fujimoto
 Maritza Lozano
 Inez Moore
 Janice Myck-Wayne
 Dawn Person
 Lissa Ramirez-Stapleton
 Mallika Scott
 Gavin Tierney
 Natalie Tran
 Nancy Watkins

COTA

Kathrine Powers

ECS

Sampson Akwafuo
 Yu Bai
 Doina Bein
 Jaya Dofe
 Kenneth John Faller
 Kiran George
 Bingling Huang
 Paul Salvador Inventado
 Sagil James
 Jin Woo Lee
 Rakeshkumar Mahto
 Phoolendra Mishra
 Ankita Mohapatra
 Nina Robson
 Deepak Sharma
 Kanika Sood
 Haowei Wang

HHD

Sadeeka Al-Majid
 Jason Baker
 Gordon Capp
 Shana Charles
 Lilia Espinoza
 David Hart
 Melanie Hom Mallers
 Juye Ji
 Tricia Kasamatsu
 Alice Lee
 Michelle Martin
 Archana McEligot
 Tabashir Nobari
 Bo Park
 Jennifer Piazza
 Michelle Ramos
 Daniela Rubin
 Pimbuca Rusmevichientong
 Angela Sojobi
 Diana Tisnado
 Penny Weismuller
 Joshua Yang

HSS

Natalie Fousekis
 Christine Gardiner
 Laura Gil-Trejo
 Veronica Herrera
 Edward Knell
 Elaine Lewinnek
 Ryan Nichols

NSM

Sinan Akciz
 Jennifer Burnaford
 William Casper
 Laura Chowdhury
 Math Cuajungco
 Bridget Druken
 Douglas Eernisse
 Kristy Forsgren
 Allyson Fry-Petit
 Michael Groves
 Matheus Guerrero
 John Haan
 Zair Ibragimov
 Veronica Jimenez Ortiz

Michael Loverude

Tien M. Nguyen
 Jeffery Olberding
 David Pagni
 Gina Passante
 Stevan Pecic
 Anton Peshkov
 Maria Soledad Ramirez
 Jocelyn Read
 Jochen H. Schenk
 Shoo Seto
 Meng Shen
 Joshua Smith
 Jocelyn Soto
 Paul Stapp
 Nabila Tanjeem
 Ionel Tifrea
 Danielle Zacherl

VPAA

Romarilyn Ralston
 Binod Tiwari
 Yuying Tsong

VPAF

Anthony Frisbee
 Elissa Thomas

VPASA

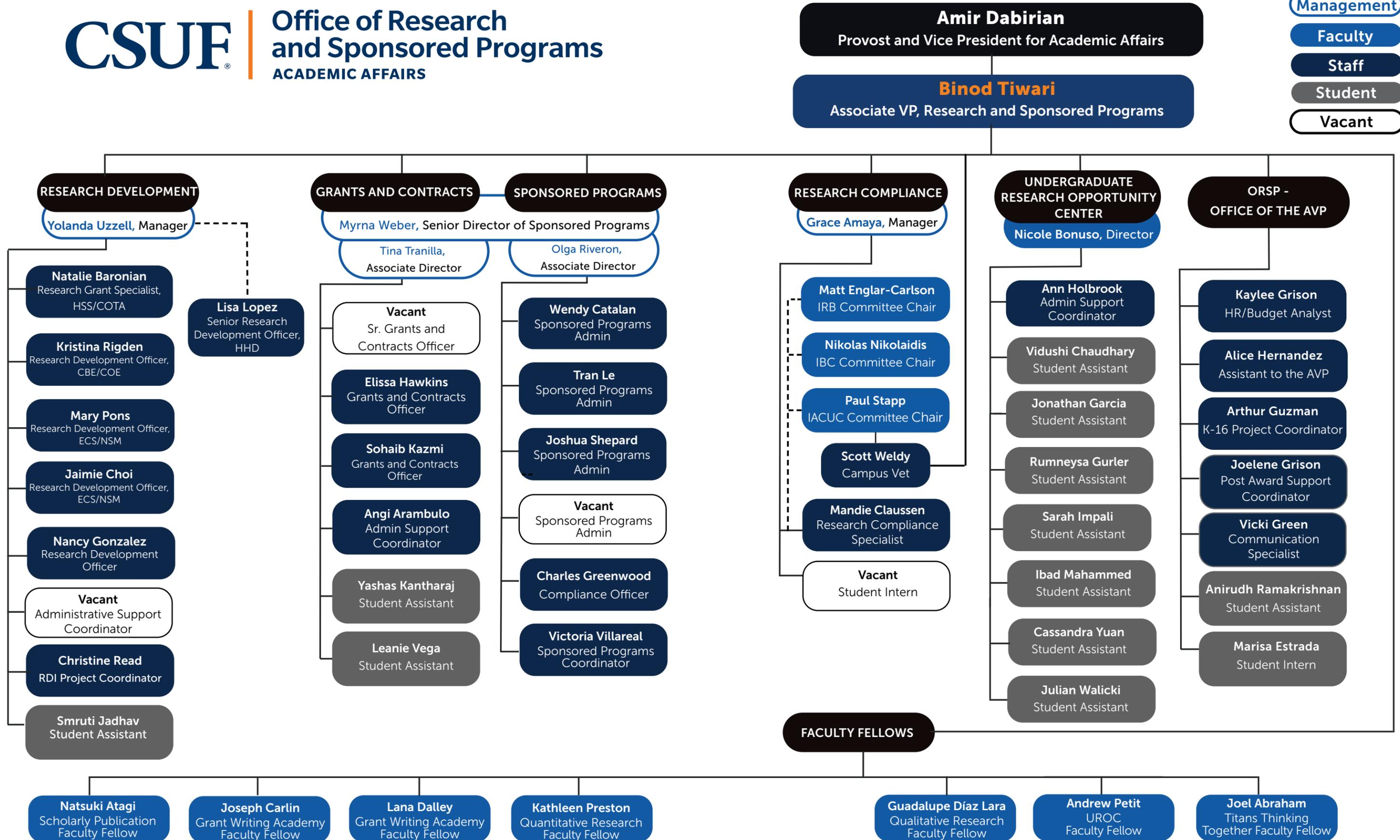
Adriana Badillo
 David Forgues
 Macy Dawn
 Tonantzin Oseguera



Office of Research and Sponsored Programs

ACADEMIC AFFAIRS

- Management
- Faculty
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