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</tr>
</tbody>
</table>
The Office of Research and Sponsored Projects (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 MISSION

- **Provide a transformative educational experience and environment for all students.**
- **Recruit and retain a high-quality and diverse faculty and staff.**
- **Expand and strengthen our financial and physical capacity.**

### Strategic Plan

<table>
<thead>
<tr>
<th>CSUF Strategy</th>
<th>ORSP Strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Goals</strong></td>
<td><strong>CSUF Strategy</strong></td>
</tr>
<tr>
<td>1.3 Scale and institutionalize culturally responsive curricular/co-curricular High Impact Practices (HIPs).</td>
<td>1.1 Support the development and expansion of High Impact Practices (HIPs), focusing on strengthening faculty professional development in research, scholarship, and creative activities.</td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>1.8 Increase on-campus student employment, internships, and development opportunities.</td>
<td>1.3 Explore and pursue funding opportunities encouraging and supporting student employment, internships, and professional development.</td>
</tr>
<tr>
<td>1.9 Expand faculty-student mentoring opportunities, particularly during last year of the undergraduate experience.</td>
<td>1.4 Identify, strengthen &amp; support inter-disciplinary or trans-disciplinary research, scholarship, or creative activities.</td>
</tr>
<tr>
<td>3.1 Conduct campus climate surveys &amp; aggregate data on a regular basis. Report findings to the campus community.</td>
<td>3.1 Identify ORSP staffing needs and explore creative models to increase support capacities at the department and college levels.</td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>3.8 Diversify and grow opportunities to promote faculty teaching, scholarly and creative activities, and support services to enhance the professional lives of faculty.</td>
<td>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.</td>
</tr>
<tr>
<td>4.10 Define an overall university goal for revenue from self support/entrepreneurial activities.</td>
<td>4.1 Identify research and scholarly activity goals and explore models that encourage faculty pursuit of extramural funding.</td>
</tr>
<tr>
<td>4.11 Develop appropriate financial models and business plans in each self-support/entrepreneurial program to realize net revenue targets.</td>
<td>4.2 Collaborate with campus partners to develop a sustainable self-support activity and revenue model.</td>
</tr>
</tbody>
</table>
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 Projects (ORSP) 2022-2023 Annual Report. At the core of our institutional mission, we cultivate lifelong habits of scholarly inquiry and critical and creative thinking. We are committed to supporting our faculty and students in their inquiry and innovation journey through individual and collaborative research and creative activities.

Showcasing faculty-student research through local, national, and international conferences and peer-reviewed publications demonstrate our faculty members’ contributions to the academic success of our students. This report highlights the accomplishments of our faculty, students, and institution, with a particular focus on RSCA. In closing, I want to thank our faculty members for their dedication to providing high-impact experiential learning opportunities to our students.

As you can see in this report, the Office of Research and Sponsored Project’s collaborations with our faculty, students, and staff—specifically on faculty-student research, scholarship and creative activities (RSCA), and extramural grant development, submission, and administration—have contributed to significantly increasing our extramural grant funds in the past few years.

As highlighted in this report, the ORSP promotes faculty and student research, scholarly, and creative activities at CSUF through its various programs in alignment with CSUF’s mission to “cultivate lifelong habits of scholarly inquiry, critical and creative thinking” and “cultivate and promote the collaborative exchange of ideas through rigorous academic and creative activities.” ORSP has strategically implemented various programs in 2022-2023, including coordinated efforts within the university and beyond; allocating resources for faculty, staff, and student professional development; promotion of CSUF faculty and program strengths, specifically, on their expertise pertinent to research and creative activities; and hiring for vacant faculty management positions. As a result, we had an extremely successful year with several new records—record-high submissions for external funding ($146.1M), funded awards ($46.1M), and faculty (over 500) participation in ORSP sponsored workshops and conferences.

One of the year’s biggest achievements has been the establishment and staffing of the Undergraduate Research Opportunity Center (UROC) with joint funding from the Scott-Jewett gift and ORSP’s internal funding. Moreover, our Faculty Fellows on Scholarly Project Development, Office of Research Compliance, Office of Sponsored Projects, and the Undergraduate Research Opportunity Center (UROC) have been successful in engaging our faculty, students, and staff in extramural proposal development and submission, conducting high-quality research and creative activities, publishing research findings in peer-reviewed journals and presenting at conferences and other professional venues.

As the provost and vice president for Academic Affairs at California State University, Fullerton (CSUF), I invite you to read this fourth annual report of the Office of Research and Sponsored Projects. All five units of the CSUF Research Enterprise—the Office of Grants and Contracts, Office of Research Development, Office of Research Compliance, Office of Sponsored Projects, and the Undergraduate Research Opportunity Center (UROC) have been successful in engaging our faculty, students, and staff in extramural proposal development and submission, conducting high-quality research and creative activities, publishing research findings in peer-reviewed journals and presenting at conferences and other professional venues.

As the provost and vice president for Academic Affairs and student research, scholarly, and creative activities at CSUF through its various programs in alignment with CSUF’s mission to “cultivate lifelong habits of scholarly inquiry, critical and creative thinking” and “cultivate and promote the collaborative exchange of ideas through rigorous academic and creative activities.” ORSP has strategically implemented various programs in 2022-2023, including coordinated efforts within the university and beyond; allocating resources for faculty, staff, and student professional development; promotion of CSUF faculty and program strengths, specifically, on their expertise pertinent to research and creative activities; and hiring for vacant faculty management positions. As a result, we had an extremely successful year with several new records—record-high submissions for external funding ($146.1M), funded awards ($46.1M), and faculty (over 500) participation in ORSP sponsored workshops and conferences.

One of the year’s biggest achievements has been the establishment and staffing of the Undergraduate Research Opportunity Center (UROC) with joint funding from the Scott-Jewett gift and ORSP’s internal funding. Moreover, we were able to continue supporting faculty through various internal programs, including RSCA Grants ($180K), Jr/ Sr Grants ($278K), CSUF Open Access Article Publishing Funds ($15K), ORSP Innovative Research and Creative Activity Grants ($180K), and Faculty Travel Grants ($40K).

Our faculty have been very active in publishing their high-impact articles in the journals of their pertinent disciplines. As a result, for two years in a row we have maintained our top-25 position in the US News and World Report’s Global University Ranking and have stayed in the top 3 among US public universities in terms of the impact of our publications, based on the Normalized Citation Index. Likewise, four of our students were able to bring home 1st or 2nd place awards at the CSUF Research Competition.

Our Office of Research Compliance, and the pertinent committees, were actively engaged in 2022-2023, reviewing applications and approving 602 Institutional Review Board (IRB) and 28 Institutional Animal Care and Use Committee (IACUC) protocols as well as 11 Institutional Biosafety Committee (IBC) protocols for curricular, cocurricular, and sponsored research projects. Likewise, our Faculty Fellows on Scholarly Publication and Quantitative Research worked with more than 30 faculty members to support their successful publication of peer-reviewed manuscripts.

Presented in this annual report are the CSUF ORSP activities during 2022-23 and some selected faculty-student research highlights. I am looking forward to more faculty-student research and creativity success in future years. As the AVP for Research and Sponsored Projects, I extend my thanks to CSU and CSUF administrators, faculty, staff, funding agencies, students, and CSUF friends and family for their unconditional support of CSUF’s growth in Research and Creative Activities. I look forward to your continued support of the ORSP mission to serve our communities locally, nationally, and globally through innovation, discovery, and transformative research and creativity.

Binod Tiwari, Ph.D., P.E.
AVP of Research and Sponsored Projects
CSUF produced 551 Web of ScienceTM indexed publications in the Calendar Year 2022, one of the highest among the CSU campuses. In the past five years, California State University, Fullerton contributed 3,228 Web of ScienceTM indexed publications*.
Extramural Grant Submissions

5-Year Submission by Fiscal Year

<table>
<thead>
<tr>
<th>Year</th>
<th>2018-19</th>
<th>2019-20</th>
<th>2020-21</th>
<th>2021-22</th>
<th>2022-23</th>
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<td>$111,882,803</td>
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5-Year Submission Trend by College/Division

<table>
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<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>COTA</td>
<td>$1,131,449</td>
<td>$1,131,449</td>
<td>$1,131,449</td>
<td>$1,131,449</td>
<td>$1,131,449</td>
</tr>
<tr>
<td>CCOM</td>
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<td>$1,085,229</td>
<td>$1,085,229</td>
<td>$1,085,229</td>
<td>$1,085,229</td>
</tr>
<tr>
<td>COE</td>
<td>$6,530,289</td>
<td>$6,530,289</td>
<td>$6,530,289</td>
<td>$6,530,289</td>
<td>$6,530,289</td>
</tr>
<tr>
<td>CECS</td>
<td>$9,926,758</td>
<td>$9,926,758</td>
<td>$9,926,758</td>
<td>$9,926,758</td>
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</tr>
<tr>
<td>CHHD</td>
<td>$43,374,718</td>
<td>$43,374,718</td>
<td>$43,374,718</td>
<td>$43,374,718</td>
<td>$43,374,718</td>
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<tr>
<td>CHSS</td>
<td>$17,106,750</td>
<td>$17,106,750</td>
<td>$17,106,750</td>
<td>$17,106,750</td>
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<td>$45,222,065</td>
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<td>$45,222,065</td>
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<tr>
<td>COE</td>
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<td>$1,030,288</td>
<td>$1,030,288</td>
<td>$1,030,288</td>
<td>$1,030,288</td>
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<tr>
<td>VPSA</td>
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<td>CHSS</td>
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<td>$0.1%</td>
<td>$0.1%</td>
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Submission Snapshot

2022-2023 Submissions by Sponsor

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<thead>
<tr>
<th>Sponsor</th>
<th>Proposed</th>
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</thead>
<tbody>
<tr>
<td>CBE</td>
<td>$11,994,979</td>
</tr>
<tr>
<td>CCOM</td>
<td>$1,085,229</td>
</tr>
<tr>
<td>CECS</td>
<td>$9,926,758</td>
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<tr>
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<tr>
<td>VPSA</td>
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</tr>
</tbody>
</table>

2022-2023 Submissions by College/Division

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<thead>
<tr>
<th>College</th>
<th>Proposed</th>
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</thead>
<tbody>
<tr>
<td>CBE</td>
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<td>CCOM</td>
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<td>CNSM</td>
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<tr>
<td>COE</td>
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<tr>
<td>COTA</td>
<td>$1,131,449</td>
</tr>
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<td>VPAA</td>
<td>$5,001,153</td>
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<tr>
<td>VPAF</td>
<td>$1,030,288</td>
</tr>
<tr>
<td>VPSA</td>
<td>$3,648,324</td>
</tr>
</tbody>
</table>
2022-2023 Extramural Grant Awards

5-Year Awards Trend By College/Division

- **COTA**: 3 awards, $127,417
- **CCOM**: 1 award, $19,268
- **CECS**: 6 awards, $775,264
- **CHHD**: 22 awards, $11,682,091
- **CHSS**: 12 awards, $758,811
- **CBE**: 13 awards, $8,504,472
- **CNSM**: 36 awards, $13,240,493
- **COE**: 6 awards, $741,969
- **VP-SA**: 4 awards, $6,031,580
- **VP-AA**: 14 awards, $6,031,580
- **OTHER**: 3 awards, $603,680

**Awarded $ by College/Division**

- **CBE**: 13 awards, $8,504,472
- **CCOM**: 1 award, $19,268
- **CECS**: 6 awards, $775,264
- **CHHD**: 22 awards, $11,682,091
- **CHSS**: 12 awards, $758,811
- **CBE**: 13 awards, $8,504,472
- **CNSM**: 36 awards, $13,240,493
- **COE**: 6 awards, $741,969
- **VP-SA**: 4 awards, $6,031,580
- **VP-AA**: 14 awards, $6,031,580
- **OTHER**: 3 awards, $603,680

5-Year Awards By Fiscal Year

- **Awarded**: $27,440,478, $31,516,429, $28,362,854, $34,564,956, $46,112,918

Awards by Sponsor Type

- **Federal**: 41.6% ($19,166,247)
- **Federal Flow Through**: 12.0% ($5,500,122)
- **Profit / Private**: 35.7% ($16,443,396)
- **Local**: 0.7% ($304,570)
- **Non-Profit / Foundation**: 6.0% ($2,755,264)
- **State of CA**: 1.6% ($741,969)
- **State of CA Flow Through**: 2.5% ($1,151,350)
2022-2023 Intramural Grant Overview

The Office of Research and Sponsored Projects, through the Faculty Research Committee (FRC), supports faculty scholarship with competitive intramural funding intended to stimulate and support faculty research and creative activities, and to assist faculty in successful competition for external funding.

This support takes the form of two awards:

- Research Scholarship and Creative Activity Incentive (RSCA) grants, which provide up to $15,000 per award
- Junior/Senior Intramural grants provide up to $7,500 or reassigned time (3 Weighted Teaching Units).

FY 2022-2023 RSCA Incentive Grants Awards

<table>
<thead>
<tr>
<th>College</th>
<th># of Awards</th>
<th>Award Amount</th>
</tr>
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<tr>
<td>CBE</td>
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<td>$15,000</td>
</tr>
<tr>
<td>CECS</td>
<td>2</td>
<td>$30,000</td>
</tr>
<tr>
<td>CHSS</td>
<td>2</td>
<td>$30,000</td>
</tr>
<tr>
<td>CNSM</td>
<td>3</td>
<td>$45,000</td>
</tr>
<tr>
<td>COE</td>
<td>1</td>
<td>$15,000</td>
</tr>
<tr>
<td>COTA</td>
<td>3</td>
<td>$45,000</td>
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FY 2022-2023 Jr/Sr Intramural Grant Awards

<table>
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<th>College</th>
<th># of Awards</th>
<th>Award Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBE</td>
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<td>$15,000</td>
</tr>
<tr>
<td>COE</td>
<td>1</td>
<td>$15,000</td>
</tr>
<tr>
<td>COTA</td>
<td>3</td>
<td>$45,000</td>
</tr>
<tr>
<td>CHSS</td>
<td>2</td>
<td>$30,000</td>
</tr>
<tr>
<td>CECS</td>
<td>2</td>
<td>$30,000</td>
</tr>
<tr>
<td>CNSM</td>
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<td>$45,000</td>
</tr>
<tr>
<td>Library</td>
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</tbody>
</table>

$1.11M 64 Awards

$1.21M 242 Awards
ORSP Innovative Research and Creative Activities Grant

The ORSP Innovative Research & Creative Activities Grant supports faculty in their research and creative activity goals to explore answers to their innovative inquiries.

<table>
<thead>
<tr>
<th>College</th>
<th># of Awards</th>
<th>Award Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBE</td>
<td>2</td>
<td>$14,664</td>
</tr>
<tr>
<td>CCOM</td>
<td>3</td>
<td>$19,664</td>
</tr>
<tr>
<td>CECS</td>
<td>1</td>
<td>$5,000</td>
</tr>
<tr>
<td>CHHD</td>
<td>2</td>
<td>$14,664</td>
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<td>CHSS</td>
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<tr>
<td>COE</td>
<td>2</td>
<td>$19,328</td>
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</table>

CSUF Open Access Article Publishing Fund (OAAPF)

Starting Fall 2020, the Office of Research & Sponsored Projects (ORSP) has been the primary sponsor for the CSUF Open Access Article Publishing Fund. ORSP accepts applications on a rolling basis throughout the academic year. Applications are pooled per quarter and competitively evaluated.

Applicants who receive Open Access Article Publishing Fund awards receive up to $1,500 toward publication costs. This fund aims to reduce the financial barriers that might prevent faculty & students from publishing in peer-reviewed, open-access journals.

It thus benefits CSUF authors with greater scholarly readership and potential citations while simultaneously providing reliable, perpetual, free access for all!

Including: Our taxpayers, alumni, and donors.

For the 2022-2023 Academic Year: ORSP provided OAAPF to 10 faculty members, totaling $15,000 in publication support.

<table>
<thead>
<tr>
<th>College</th>
<th># of Awards</th>
<th>Award Amount</th>
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</thead>
<tbody>
<tr>
<td>CBE</td>
<td>1</td>
<td>$1,500</td>
</tr>
<tr>
<td>CECS</td>
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<td>CHHD</td>
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<tr>
<td>COE</td>
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3 Year Award by Fiscal Year

- 2020-2021: 63,940
- 2021-2022: 119,614
- 2022-2023: 107,312

2-Year OAAPF Awards

- 2021-22: 16
- 2022-23: 10

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Faculty Travel Grant

The Office of Research and Sponsored Projects (ORSP) established the ORSP Faculty Travel Grant to support tenured and tenure-track faculty members and librarians in their research, scholarship, and creative activities. The grant provides matching funds for domestic and international travel that offers professional development opportunities, eventually helping faculty retention, tenure, and promotion.

For the 2022-23 academic year, the Office of Research and Sponsored Projects awarded $52,830 to fifty-four Faculty across CSUF.

Awards support travel that enable faculty to:
- Present their work at national and international scale peer-reviewed conferences or meetings
- To meet with program officers at external funding agencies, or to attend federal funding agency-sponsored workshops

FY 2022-23 Faculty Travel Grant Awards

<table>
<thead>
<tr>
<th>College</th>
<th># of Awards</th>
<th>Award Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBE</td>
<td>11</td>
<td>$11,000</td>
</tr>
<tr>
<td>CCOM</td>
<td>16</td>
<td>$16,000</td>
</tr>
<tr>
<td>CECS</td>
<td>2</td>
<td>$2,000</td>
</tr>
<tr>
<td>CHHD</td>
<td>4</td>
<td>$4,000</td>
</tr>
<tr>
<td>CHSS</td>
<td>11</td>
<td>$11,000</td>
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<tr>
<td>CNSM</td>
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<tr>
<td>COTA</td>
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</table>

2-Year Faculty Travel Grant Awards

- Submitted: 42 (2019-20) 56 (2022-23)
- Awarded: 53 (2019-20) 60 (2022-23)
Research Compliance

The Research Compliance Office is tasked with ensuring that research at CSUF is conducted safely, ethically, and legally. The Office facilitates the meeting of this goal by coordinating the University’s Institutional Review Board (IRB), Institutional Animal Care and Use Committee (IACUC), Institutional Biosafety Committee (IBC), and programs for Responsible Conduct of Research (RCR).

Institutional Review Board (IRB)

Protocol Activity
During the academic year, the IRB staff and committee members reviewed and approved a total of 602 protocol submissions. The number of protocols reviewed/approved consists of all the initial, modification, renewal, closure, and incident submissions forwarded to the Compliance Office for review via Cayuse IRB.

Note: Some protocols may have been submitted more than once during the fiscal year for review.

IRB received a total of 424 distinct studies over the course of the academic year.

The majority of the protocols were from
- CBE
- CHHD
- COE
- COTA
- CCOM
- CHSS
- CNSM
- CECS
- OTHER

These submissions consisted of
- Initial applications
- Modifications
- Renewals
- Closures
- Incidents

Student Submission Type
- Research
- Thesis Publication
- Dissertation

Submission by PI
- Faculty
- Staff
- Student

424 TOTAL DISTINCT STUDIES
602 SUBMISSIONS REVIEWED APPROVED

Research
Compliance

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These submissions consisted of
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- Renewals
- Closures
- Incidents

Student Submission Type
- Research
- Thesis Publication
- Dissertation

Submission by PI
- Faculty
- Staff
- Student
Institutional Animal Care & Use Committee (IACUC)

Protocol Activity
During the academic year, the Institutional Animal Care and Use Committee (IACUC) processed and approved 28 submissions. As of now, there are a total of 20 active protocols.

These submissions consisted of:
- Initial applications: 8
- Modifications: 2
- Renewals: 4
- Closures: 4
- Incidents: 10

The majority of the protocols were from:
- The Department of:
  - Biological Science
  - Chemistry & Biochemistry
  - Psychology

Institutional Biosafety Committee (IBC)

Protocol Activity
During the academic year, the IBC processed and approved a total of 11 protocol submissions.

These submissions consisted of:
- Initial applications: 2
- Continuations: 9

The majority of the protocols were from:
- The Department of:
  - Biological Science
  - Chemistry & Biochemistry
  - Physics
Faculty Scholarly Publication Services

Launched in Spring 2020, the Scholarly Publication Faculty Fellow (SPFF) supports faculty across the university in editing, revising, and publishing their work. Dr. Carrie Lane, professor of American Studies, has served as SPFF since the program’s inception; in spring 2023, Dr. Lana Dailey, professor of English and Comparative Literature, stepped into the role while Dr. Lane served as interim department chair.

Together, in AY 2022-23, they worked with nearly 30 faculty on 37 manuscripts. Over the program’s tenure, we have now assisted CSUF faculty on a total of 184 manuscripts. While many of these are still under review, more than 60 have already been successfully published as peer-reviewed articles or book chapters. Dr. Lane has enjoyed the opportunity to work with faculty from such a wide range of fields and departments, especially pre-tenure faculty and faculty of color at all levels.

"Serving as the SPFF has been one of the highlights of my nearly 20-year career at CSUF," Lane says.

In AY 2022-23, the SPFF role expanded to include providing editorial support to faculty preparing their sabbatical applications. We will continue to offer that service in AY 2023-24 to any faculty who would like assistance with their applications. The SPFF also offers onsite editorial support for the Faculty of Color Learning Community Gift of Time Writing Retreat, which is held once a semester.

SPFF services are available to all faculty across the university, but we have noticed consistent patterns in terms of which faculty are most likely to utilize support.

In AY 2022-23, of the faculty who requested SPFF support:

- 66% Assistant Professors
- 17% Associate Professors
- 14% Professors
- 3% Lecturers

A majority of those who worked with the SPFF this year were female faculty members (79%) or faculty of color (86%); nearly three-quarters (72%) were female faculty of color.

Advanced Grant Writing Academy

The Office of Research and Sponsored Projects (ORSP) announced the launch of the 2022-2023 Advanced Grant Writing Academy, cohort 2. This intensive program was offered to Tenured and Tenure-Track CSU Fullerton faculty with some experience in writing and submitting external grant proposal(s) as Principal Investigators.

Selected faculty members worked with the Office of Research Development (ORD) staff and Hanover Research consultants on individualized development plans and received personalized coaching and one-on-one proposal reviews. The program also featured targeted workshops on core grantsmanship skills. At the conclusion of the program, cohort participants revised and resubmitted a previously unfunded proposal to a federal agency.

Faculty Quotes:

I thought the presentations last summer were helpful. I also thought the grant editor was very helpful as he provided a lot of great feedback. There was minimal homework involved which was an added bonus!

I appreciated the coordinated support between Hanover and Cal State Fullerton.

Appreciation for the option to focus on one proposal.

Follow-up from me with resources specific to the project and actionable next steps were useful.

Time talking with consultants — either as a consult call or as part of the debrief on the review/revision of a proposal was most valuable.
Research, Scholarship & Creative Activities:
Majority of the student research and creative activities programs at Cal State Fullerton are administered through CSUF’s newly established Undergraduate Research Opportunity Center (UROC) that focuses on fostering research, innovation, scholarship, and creative activities.

The center, under the Office of Research and Sponsored Projects (ORSP), is located on the second floor of Pollak Library in Suite 203.

UROC was established in 2022 with the financial support from the Scott-Jewett gift and ORSP’s internal funding. UROC’s programs and future endeavors align with the university’s mission to cultivate lifelong inquiry, scholarship, creative activities, and critical thinking in efforts to close the educational equity gap. President Virjee inaugurated the center in Spring 2023 by ribbon-cutting at the UROC Grand Opening ceremony.

The Office of Research and Sponsored Projects 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 enhances campus student research.

Organizes on-campus events:
CSU Student Research Competition (SRC)
Student Creative Activities and Research (SCAR) Day

Increases student participation in off-campus student research and creative activities related events:
CUR STR Program
Southern California Conference for Undergraduate Research (SCCUR)
National Conference on Undergraduate Research (NCUR)

CSU – SRC 2023
UROC administered the CSUF – CSU Student Research Competition 2023. Three informational workshops on preparing for the CSUF-CSU SRC, including content on the competition, timeline, preparation, and review criteria were provided to students.

Four Titan Researchers received top awards at the 37th annual competition, showcasing outstanding research and creativity across the CSU’s 23 campuses.

Alondra Cervantes
Undergraduate, Child and Adolescent Studies, CHHD
“Latina Mother’s Understanding of Common Core State Standards”
Faculty mentor: Guadalupe Diaz Lara

Trina Miller
Undergraduate, Biological Science, CNSM
“Lactic Acid Bacteria Lacticaseibacillus rhamnosus ‘R3’ Inhibitory Activity Against ESKAPE”
Faculty mentor: Jennifer Burnaford

Kaitlyn Kern
Graduate, Biological Science, CNSM
Faculty mentor: Erin (Misty) Paig-Tran

Dema Ramlaoui
Undergraduate, Biological Science, CNSM
“Lactic Acid Bacteria Lacticaseibacillus rhamnosus ‘R3’ Inhibitory Activity Against ESKAPE”
Faculty mentor: Maria Soledad Ramirez
SCAR DAY
April 17th, 2023

1st

Samantha Hubbard
Undergraduate, Biological Science, CNSM

Student Creative Activities Research (SCAR) Day provides CSUF students the opportunity to showcase their research, scholarship, and creative activities. It’s a unique experience for undergraduate and graduate students to present work across all disciplines in a friendly, conference-style format.

“SCAR Day is an amazing opportunity to learn more about student work and join as a community to celebrate our student and faculty accomplishments!”

A range of 51 poster presentations were showcased at the event, featuring both individual and team presenters from various disciplines. Among these, 39 posters were presented by undergrad students, while the remaining 12 were led by graduate students.

The conference-style format attracted an impressive turnout of over 130 students and faculty members. Notably, undergraduate and graduate students from all eight colleges were honored with top awards.

Applicants from six colleges submitted for the CSUF SRC.

A total of 25 (one team of two submitted, for a total n = 24 projects) CSUF students applied to the CSUF Student Research Competition.

Number of applicants by discipline:

<table>
<thead>
<tr>
<th>College of Engineering and Computer Science</th>
<th>College of Humanities and Social Science</th>
<th>College of Natural Sciences and Mathematics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annabelle Recinos, Civil Engineering</td>
<td>Katherine Heaton, Sociology</td>
<td>David Ngo, Biological Science</td>
</tr>
<tr>
<td>&quot;Computation of Corrosion Initiation Time for Zeolite Based High Performance Concrete.&quot; Faculty Mentor: Pratanu Ghosh, Professor of Civil and Environmental Engineering</td>
<td>&quot;Bans off my Body: Abortion Rights Movement on Twitter Following the Overruling of Roe v. Wade&quot; Faculty Mentor: Carter Rakovski, Professor of Sociology</td>
<td>&quot;Antibiotic resistance&quot; Faculty Mentor: Marcelo Tolmasky, Professor of Biological Science</td>
</tr>
<tr>
<td>Mark Rangel &amp; Gio Sanchez, Mechanical Engineering, &quot;Study on Smart Reconfigurable Drone Technology for Search and Rescue in Natural&quot; Faculty Mentor: Sagij James, Associate Professor of Mechanical Engineering</td>
<td></td>
<td>&quot;Computationally Probing the Reaction Between Photo base and Lewis Acid&quot; Faculty Mentor: Andrew Pettit, Associate Professor Physical and Theoretical Chemistry</td>
</tr>
</tbody>
</table>
A six-month enhanced program event that has replaced Posters on the Hill and REU Symposium while drawing on their successes. The STR program is a unique professional development opportunity for faculty/mentors and undergrad research students. In teams of up to three - two students and one team leader - participants have garnered advocacy and communication skills to leverage the impact of their undergraduate research experience by conveying their stories to stakeholder groups.

During the year, teams have participated in workshop topics as follows:

- Policy Brief Writing
- Op-ed Writing and Pitching
- Engaging with Federal Policymakers
- Engaging with Government Agencies
- Policy Mapping and Navigating Your Network
- Connecting & Building Relationships with Policymakers

Six CSUF teams comprising 14 faculty and students from four CSUF colleges and the UROC director participated and attended the 2-day STR workshop sponsored by CUR in Alexandria, Virginia.

UROC coordinated the scholars, including pre-conference training, day of conference support, and assistance with all travel logistics. Additionally, UROC developed helpful materials for travel tips to facilitate their journey.

More than 200 participated:

Among the 164 responses we received, data are as follows:

- 116 Undergraduate Students
- 23 Graduate Students
- 20% Non-CSUF Attendees

SCCUR 2022

The Southern California Conference for Undergraduate Research (SCCUR) Annual Conference was held on November 19, 2022 at Pepperdine University, Malibu, CA. Nearly 140 CSUF students and faculty mentors were accepted to showcase their work at the conference. ORSP and UROC supported student registration to attend the conference.

Undergraduate students across many disciplines presented scholarly & creative research on topics such as language literacy for bilingual speakers, emotion regulation, cancer disparities, Titan Providence, Alzheimer’s disease therapeutics, microgravity experiments, and much more!

The First-Gen Kick-Off Event

The First-Gen Kick-Off event sponsored by the Provost’s office elicited an exuberant crowd at the UROC table. Four undergraduate students from engineering and public health who have participated in recent UROC-sponsored programs, a graduate student from psychology, and the UROC director interacted and answered questions from California State Fullerton undergraduate students.

Nearly 60 students completed an interest form to learn more about UROC and scholarly and creative research opportunities.

The UROC table set-up included two large research posters, four small research posters, QR codes for our twitter and Instagram pages, information cards, a photo board with recent activities, an interactive game and prizes.
National Conference on Undergraduate Research (NCUR) 2023-22 abstracts via CSUF faculty and students were submitted for review to NCUR 2023. NCUR 2023 was held in Eau Claire, Wisconsin.

A total of 21 abstracts were accepted, one – faculty and 20 students.

Student Abstracts:

NCUR ABSTRACTS

Presentations were on topics such as:

- Feeding the Spark of Creative Inquiry Through Community-Engaged Practices: A Developing Model
- Capturing the Nuances of Written Language Learning in 5 Beginning Writers
- ‘Don’t Upset Your Grandmother’: Disclosure Patterns of Latina Childhood Sexual Abuse Victims
- Assessment of Hardware Obfuscation for Hardware Oriented Security
- Partners4Literacy: A Comparative Classroom Discourse Analysis During Delivery of Readtopia Instruction
- Deformity and Mortality in Zebrafish Larvae Exposed to Valproic Acid
- The Role of Spanish-language Press in the United States in the First Half of the Nineteenth Century
- Data Analyses in R/R Studio Workshops

In this workshop series, students were introduced to data analyses in R/R Studio. The main objective of the workshops are for participants to learn and understand how to initiate and perform basic data analyses using the R/R Studio statistical software.

NCUR ABSTRACTS

RSCA Introductory Skills Development (ISD) Workshops

Have you ever wondered what goes into research, scholarship, and creative activities (RSCA) and how to get started? Come learn more about RSCA - the who, what, when, where, and how through our RSCA Introductory Skills Development (ISD) Workshops led by Dr. Allyson Fry-Petit.

“We’ll dive into strategies on how to find a RSCA opportunity, the nitty-gritty of poster presentations, abstracts and elevator pitches. Come on by! We’re here for you!”

Data Analyses in R/R Studio Workshops

<table>
<thead>
<tr>
<th>Workshop</th>
<th>Attendees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding data in R (Feb 27th)</td>
<td>43</td>
</tr>
<tr>
<td>Data cleaning, Manipulation, and Organization in R (Mar 6th)</td>
<td>33</td>
</tr>
<tr>
<td>Data Visualization in R (Mar 13th)</td>
<td>40</td>
</tr>
<tr>
<td>Descriptive Data Analysis in R (Mar 20th)</td>
<td>44</td>
</tr>
<tr>
<td>Inferential Analysis in R (Apr 3rd)</td>
<td>34</td>
</tr>
</tbody>
</table>

UROC Introductory Skills Development Workshops

UROC Introductory Skills Development workshops were offered both in-person and virtually.
Summer Undergraduate Research Academy (SUREa) 2022

Forty undergraduate students had been engaged with 27 faculty mentors across campus in the (funded) faculty-mentored research and creative activities projects under the second cohort of the Summer Undergraduate Research Academy (SUREa) project that took place virtually from June 6 through August 5, 2022. Students presented their research work at the SUREa Symposium on August 5.

Student participants and their faculty mentors are listed below.

<table>
<thead>
<tr>
<th>College</th>
<th>Department</th>
<th>Student</th>
<th>Project Title</th>
<th>Faculty Mentor</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCOM</td>
<td>Communications Sciences and Disorders</td>
<td>Amy Vanessa Garcia &amp; Zachary Bucci</td>
<td>The effects of Family Sex Communication behaviors on young adult’s sexual communication behaviors</td>
<td>Tara Suwinyattichaiporn</td>
</tr>
<tr>
<td>CEECS</td>
<td>Mechanical Engineering</td>
<td>Levant Ho &amp; Mark Rangel</td>
<td>Application of Shape-Memory Materials to the Design and Fabrication of Drones</td>
<td>Sagil James</td>
</tr>
<tr>
<td>CEECS</td>
<td>Mechanical Engineering</td>
<td>Erica Jiang &amp; Justin Diamond</td>
<td>Hydrodynamics of Marine Life: Tracking drags mounted on green sea turtles</td>
<td>Salvador Mayoral</td>
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<tr>
<td>CEECS</td>
<td>Computer Engineering Program</td>
<td>Peter Tran &amp; Woo Kim</td>
<td>Machine Learning Algorithm for Power Management of Micro-autonomous Drones</td>
<td>Rakesh Mahato</td>
</tr>
<tr>
<td>CHHD</td>
<td>Child and Adolescent Studies</td>
<td>Rebekah Caldona</td>
<td>The literacy skills of heritage bilinguals: A quantitative pilot study</td>
<td>Natsuki Atagi</td>
</tr>
<tr>
<td>CHHD</td>
<td>Child and Adolescent Studies</td>
<td>Alondra Cervantes</td>
<td>Pre-K and Transitional Kindergarten Spanish and English Language Development</td>
<td>Guadalupe Lara-Diaz</td>
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<td>CHHD</td>
<td>Public Health</td>
<td>Heather Franson</td>
<td>Examining the Association Between Endometriosis and Pregnancy Outcomes</td>
<td>Alice Lee</td>
</tr>
<tr>
<td>CHHD</td>
<td>Kinesiology</td>
<td>Alberto Garcia</td>
<td>The relationship between postural control and motor control proficiency in obese people with/without Prader Willi Syndrome</td>
<td>Daniela Rubin</td>
</tr>
<tr>
<td>CHHD</td>
<td>Kinesiology</td>
<td>Vincent Vuong</td>
<td>Relationship between catecholamines and lactic acid in obese children</td>
<td>Daniela Rubin</td>
</tr>
<tr>
<td>CHHD</td>
<td>Public Health</td>
<td>Kristen Ojeda</td>
<td>The relationship between Caregivers of Alzheimer’s Disease and General Caregivers of Elderly</td>
<td>Joshua Yang</td>
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<tr>
<td>CHSS</td>
<td>History</td>
<td>Hattie Alcala</td>
<td>Women in the 19th-century post-U.S. conquest in California</td>
<td>Margie Brown-Corelon</td>
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<tr>
<td>CHSS</td>
<td>Sociology</td>
<td>Jen Laugher</td>
<td>Socioeconomic Factors Impact Experiences of Economic Abuse Among Mothers</td>
<td>Devon Thacker Thomas</td>
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<tr>
<td>CHSS</td>
<td>Psychology</td>
<td>Kathy Tran</td>
<td>The Role of Student Cultural Organizations and Co-Ethnic and Intranotify Friendships in Southeast Asian American Students’ Belonging in College</td>
<td>Angela-MinhTu Nguyen</td>
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<tr>
<td>CHSS</td>
<td>Chicana/o Studies</td>
<td>Allyson Blanco &amp; Vanessa Washington</td>
<td>Archives of Mortality: Year 2 of Remembrance Year 1 of the Racialized Pandemic for Latinx Communities</td>
<td>Mario Obando</td>
</tr>
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<tbody>
<tr>
<td>CNSM</td>
<td>Chemistry &amp; Biochemistry</td>
<td>Garrett Mahler</td>
<td>Synthesis of Compounds for Use as Nega-Tive Thermal Expansion Materials</td>
<td>Joya Cooley</td>
</tr>
<tr>
<td>CNSM</td>
<td>Chemistry and Biochemistry</td>
<td>Luis Hernandez Lopez</td>
<td>Intercalation of Photobases Between 2D Layered Inorganics</td>
<td>Allyson Fry-Petit</td>
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<tr>
<td>CNSM</td>
<td>Chemistry and Biochemistry</td>
<td>Anjohny Pham</td>
<td>Determining the possible structures of 2-D SiO2 and its application towards electronics</td>
<td>Michael Groves</td>
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<td>CNSM</td>
<td>Biological Science</td>
<td>Megan Peukert</td>
<td>Desert tortoises at the extreme part of their range as potential predictors for how the species will respond to climate change</td>
<td>Bill Hoese</td>
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<td>CNSM</td>
<td>Geological Sciences</td>
<td>Ashley Hansen</td>
<td>Pre-20th Century Wildlife History of Chino Hills State Park, California, Re-constructed from Microscopic Charcoal Counts</td>
<td>Matthew Kirby</td>
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<td>CNSM</td>
<td>Biological Science</td>
<td>Alyssa Ng</td>
<td>Purification of MopA</td>
<td>Hope Johnson</td>
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<tr>
<td>CNSM</td>
<td>Chemistry and Biochemistry</td>
<td>Abby Anatasi</td>
<td>Characterization of acetate modifications in Polyphenymidine Tract Binding Protein 1 RRM4 in RNA binding affinity(Anatasi)</td>
<td>Niroshika Moner-awila Keppetipola</td>
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<tr>
<td>CNSM</td>
<td>Chemistry and Biochemistry</td>
<td>Azeem Horani</td>
<td>Understanding the Role of Acietylation in Polyphenymidine Tract Binding Protein 1 RNA Recognition Motif 3</td>
<td>Niroshika Moner-awila Keppetipola</td>
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<tr>
<td>CNSM</td>
<td>Mathematics</td>
<td>Cedar Hofstetter &amp; Olga Luna Flores</td>
<td>Supports and Challenges for CSUF Mathematics Faculty as They Transition to Active and Equity-Minded Instruction</td>
<td>Alison Marzocchi</td>
</tr>
<tr>
<td>CNSM</td>
<td>Chemistry and Biochemistry</td>
<td>Jasmine Chi</td>
<td>Design, Synthesis, and Biological Evaluation of Donepezil-based Analogs as Potential Alzheimer’s Disease Therapeutics</td>
<td>Stevan Pecic</td>
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<td>CNSM</td>
<td>Chemistry and Biochemistry</td>
<td>Celine Diep</td>
<td>Computational Studies of a Reaction Driven by Blue Light (CELINe)</td>
<td>Andrew Petit</td>
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<td>CNSM</td>
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<td>Photochemistry: Application of Photobases for Greener Chemistry</td>
<td>Andrew Petit</td>
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<td>Biological Science</td>
<td>Vyanka Mezzord</td>
<td>Characterization of Cefiderocol (CFDC) heteroresistance in carbapenem-resistant Acinetobacter baumannii (CRAB) cells after exposure to human pleural fluid</td>
<td>Maria Ramirez</td>
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<td>CNSM</td>
<td>Biological Science</td>
<td>Nardin Georgeois</td>
<td>Lactic Acid Bacteria with Antimicrobial Activity against Acinetobacter baumannii</td>
<td>Maria Ramirez</td>
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<tr>
<td>CNSM</td>
<td>Biological Science</td>
<td>Kathy Thien &amp; Melissa Fernandez</td>
<td>Defining the microbiota’s response to and influence on immune defense in long-lived and short-lived populations</td>
<td>Parvin Shahrzadani</td>
</tr>
<tr>
<td>COTA</td>
<td>Theatre/Dance</td>
<td>Brienne Thurber &amp; Thomas Keenan</td>
<td>Entertainment Origins: Researching and Documenting Historic European Theaters</td>
<td>NR Norman Luker</td>
</tr>
<tr>
<td>COTA</td>
<td>Visual Arts</td>
<td>Kimberly Ruiz</td>
<td>Breaking Cycles of Violence: Using Art and Healing to Improve Inmate Well-Being</td>
<td>Mary Pomonis</td>
</tr>
<tr>
<td>COTA</td>
<td>Visual Arts</td>
<td>Matthew Gonzalez</td>
<td>Create Unique Visual Arts Lessons to Help the Memory Care Participants Connect to their Memories and Feelings</td>
<td>Mary Pomonis</td>
</tr>
</tbody>
</table>
Research Enterprise

Under the Division of Academic Affairs, ORSP is led by an Associate Vice President (AVP) for Research and Sponsored Projects. 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.

OSP
Office of Sponsored Programs
As a unit of the CSU Fullerton Auxiliary Services Corporation, 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.

ORC
Office of Research Compliance
ORC 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 conduct of research.

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

OGC
Office of Grants & 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.

UROC
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; Organize on-campus events, including Summer Undergraduate Research Academy (SUReA), CSU Student Research Competition SRC), and Student Creative Activities and Research (SCAR) Day; Increase student participation in off-campus student research competitions (SCCUR, NCUR, CUR STR); and provides professional development opportunities to students and faculty mentors.
Research Enterprise
Professional Development Retreat

On November 4, 2022, the various units under the CSUF Research Enterprise convened at a daylong retreat to take a step back from the day-to-day work of proposal development, submissions, managing post-award tasks, and reviewing compliance protocols at the Fall 2022 staff retreat. The theme for the retreat was "Vibrancy in the Workplace," led by Dr. Jessie Jones and Dr. Laurie Roades, former deans of the CSUF College of Health and Human Development.

This retreat provided the research enterprise staff opportunities to reflect on the energy and what drives us in the workplace. In addition, the staff participated in hands-on, self-exploration, and team-building activities. Overall, the retreat provided time for the team to rejuvenate, get everyone excited about a joint mission, set goals for the upcoming year, and build bonds among team members.

Attendees Evaluation:

So positive, felt great that our group works together so well and we are open to maintain and improve relationships with each other and the CSUF Community.

"The sense of camaraderie with individuals I don’t normally work closely with.

"I enjoyed the teambuilding activities and helping me view things from multiple perspectives.

"I enjoyed seeing everyone smiling, embracing the presentation and just having a great time!"
During the Office of Research and Sponsored Projects Research Week 2023, the Office of Research Development (ORD) and Hanover Research co-hosted a faculty proposal development workshop, Grant-Seeking Throughout the Faculty Lifespan.

This interactive workshop highlighted effective ways faculty can use their existing scholarship to identify and apply for external grant opportunities.

**Attendees learned:**
1) The critical considerations in grant preparedness
2) The value of developing a concrete concept paper
3) Strategies for Program Officer outreach.
4) How to find, interpret, and vet research and programmatic funding opportunities
L. Don Shields Excellence in Scholarship & Creativity Award Lecture

Hearing the Past through the Present: Mexican American Music & Theater in Southern California since the 1850s

Dr. John Koegel

Dr. John Koegel teaches various undergraduate music history courses and graduate musicology seminars. He researches U.S., Mexican, and Latin American musical topics from the 18th century to the present, particularly musical theater and Music in the context of ethnicity and immigration.

His book Music in German Immigrant Theater: New York City, 1840-1940 (University of Rochester Press, 2009) was given the Irving Lowens Book Award of the Society for American Music.

He is currently working on the extensive scholarly musical edition Mexican American Music from California, circa 1840-1940: The Lummis Wax Cylinder Collection and Other Sources for the Music of the United States of America series (for A-R Editions and the American Musicological Society), and the book Music and Theater in Mexican Los Angeles, 1840-1940.

Dr. John Koegel has peer-reviewed journal articles published in the United States, Mexico, Spain, and Britain. His peer-reviewed book chapters appear in essay collections published by Oxford, Cambridge, California, Chicago, Rochester University Presses, and other scholarly publishers. Fellowships from the National Endowment for the Humanities, the American Council of Learned Societies, the American Philosophical Society, and other organizations have supported Dr. Koegel’s research work.

Keynote Speaker

Building a Thriving Research Culture in Comprehensive Academic Institutions

Dr. Mohamed Abousalem

In addition to serving as the Vice President for Research and Innovation (VPRI) at San José State University, Dr. Mohamed Abousalem also serves as the President of the Board of Directors of the SJSU Research Foundation and the Chair of the Council of Chief Research Officers of the California State University (CSU). As the inaugural VPRI at SJSU, Dr. Abousalem provides executive leadership of SJSU’s research and innovation enterprise.

Dr. Abousalem is leading the creation of productive relationships, developing and implementing strategies that increase SJSU’s competitiveness, and expanding its external funding opportunities.

Dr. Mohamed Abousalem is building the institutional innovation support infrastructure to facilitate the offering and the coordination of entrepreneurship support services that enable SJSU faculty and students to bring their inventions, ideas, and methodologies to practice for the benefit of the local and global communities.

He has over 30 years of technical, business, and administrative management experience. Most recently, at the University of California Santa Cruz (UCSC), Dr. Mohamed Abousalem provided executive leadership and coordination of the UCSC intellectual property management and licensing, developing industry alliances, and managing innovation and entrepreneurship support programs. Before UC, he was the founding Chief Executive Officer of TECTERRA Inc. and has had several executive management roles in the industry, including Hemisphere GPS in Canada and Magellan GPS in Silicon Valley.
On Tuesday, April 18, 2023, ORSP hosted two lively faculty panel discussions during Research Week. The morning began with a panel focused on faculty sharing with the attendees the strategies and techniques they use to maximize their Research, Scholarship, and Creative Activities on campus. The panel was moderated by Dr. Ioakim Boutakidis and consisted of faculty from across various disciplines.

Among the faculty panelists present were Dr. Dustin Barr (COTA), Dr. Archana McEligot (HHD), Dr. Lucia Alcala (HSS), Dr. Lupita Espinoza (HHD), and Dr. Sam Behseta (NSM).

Immediately following the first panel discussion, ORSP hosted a panel discussion dedicated to Navigating Research Compliance. The committee Chairs for IRB, IACUC and IBC lead the discussions, sharing their insights with the attendees on how CSUF administers, coordinates, and assists the campus community in the implementation and adherence to a broad range of university, state, and federal policies and regulations related to the conduct of research, scholarship, and creative activities.

The panelists included Dr. Ioakim Boutakidis, IRB Vice-Chair; Dr. Paul Stapp, IACUC Chair; Dr. Nikolas Nikolaidis, IBC Chair; and Rob Denman, Biosafety Officer.
ORSP Award Recognition: Principal Investigator Awards

The ORSP Award Recognition event is held annually during research week to celebrate and acknowledge extramural awards received by faculty and staff administrators. This April, we celebrated 82 faculty and staff who received support for their research and academic activities. Each award recipient received a crystal award recognizing their efforts. The event was held in the Titan TSU theatre on April 20th from 1 pm to 2:30 pm, with an exclusive invitation to all award recipients and college deans with an opportunity for pictures and light refreshments immediately following the event.

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>College / Division</th>
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<tbody>
<tr>
<td>Sinan Akciz</td>
<td>Geological Sciences</td>
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<td>Michael Daniel</td>
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<td>Nilay Patel</td>
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### ORSP Award Recognition: Principal Investigator Awards

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<tr>
<td>Chris Perez</td>
<td>Center for Internships &amp; Community Engagement</td>
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<td>Jenny Zhang</td>
<td>Business and Economics</td>
<td>CBE</td>
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Fiscal Year 2022-23 Grants, Contracts, and Fellowships

College of the Arts

Maria Cominis
To Support The Development and Production of Women of Zalongo National Endowment for The Arts $10,000

Josh Grisetti
To Latine Musical Theatre New Works Project
California State University, Northridge Foundation $112,417

Elizabeth Holster
Orange County K-16 Education Collaborative
Orange County Department of Education (OCDE)/OC Pathways $5,000

Associated Students Inc.

Lydia Palacios
CSUF Student-Parent Child Care Support Program
U.S. Department of Education $288,623
Multi-Year: $1,154,496.00

CSUF Student-Parent Child Care Support Program
U.S. Department of Education $2,406,605
Multi-Year: $1,154,496

College of Business and Economics

Michael Daniel
2022 Orange County Women’s Business Center
U.S. Small Business Administration $150,000

Source Diverse Source Local - SBDC
Southwestern Community College District
$25,000

OCIE SBDC GOBIZ CIP 22-23
California Office of The Small Business Advocate
$519,300

OCIE SBDC GOBIZ TAP 22-23
California Office of The Small Business Advocate
$2,950,000

OCIE SBDC 2023
U.S. Small Business Administration
FY 22/23: $628,067
Multi-Year: $2,990,794

OCIE SBDC International Trade Center
Southwestern Community College District
$875,000

OCIE SBDC GOBIZ CIP 22-23
California Office of The Small Business Advocate
$519,300

Small Business Development Centers
U.S. Small Business Administration
$2,406,605

SBDC Contract with The City of Tustin
City of Tustin
$30,000

John Bradley Jackson
Accelerator Proposal
California State University, Long Beach Foundation $7,500

Northstar (System To Access Resources) OC Collaborative
ONEDC
$549,999.99

Hyunau Kim
An Investigation of Visitor Profile and Economic Impact of The 5 Points District, Columbia, South Carolina
University of Southern Carolina $2,000

Jenny Zhang
O.C. K-16 Education Collaborative
Orange County Department of Education (OCDE)/OC Pathways

$134,599

Phoolendra Mishra
Health Careers Opportunity Program
Orange County Department of Education (OCDE)/OC Pathways

$1,250,000

Colleges of Communications

Zac Johnson
Teammate and Training Partner Support in Recreational Triathletes Doping Attitudes and Concerns
World Anti-Doping Agency (WADA) $19,268

College of Education

Rosalinda Larios
Inpiring and Engaging Children and Families Through Innovative Practices California State University, Northridge Foundation $113,158

Dawn Person
CSU-Mellon Mayes Undergraduate Fellowship Program
The Trustees of The California State University, Long Beach $11,848

Paul Salvador Inventado
BPC-A Socially Responsible Computing, Promoting Latinx Student Retention Via Community Engagement in Early CS Courses National Science Foundation $299,716

Sagil James
Biomaterializing Workforce Training Program for Students From Historically Under-Served Communities California State University, Northridge Foundation $134,599

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 22/23: $12,081
Multi-Year: $39,982

College of Health and Human Development

Sadeeka Al-Majid
Scholarships for Disadvantaged Students Health Resources and Services Administration
FY 22/23: $900,000
Multi-Year: $3,479,941

Katherine Bono
Fullerton Resilient Families Program
Orange County Head Start, Inc $27,429

Gordon Capp
School Social Work Framework
Garden Grove Unified School District
$70,922

David Chenot
Health Care Occupations Program Health Resources and Services Administration
FY 22/23: $632,208
Multi-Year: $5,207,301

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## Grants, Contracts, and Fellowships

### Administration

<table>
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<th>Name</th>
<th>Grant Title</th>
<th>Funding Details</th>
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<td>Penny Weismuller</td>
<td>Grants, Contracts, and Fellowships</td>
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<td>Jennifer Thompson</td>
<td>Grants, Contracts, and Fellowships</td>
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<td>Angela Soji</td>
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<td>Joshua Yang</td>
<td>Detection and Characterization of Illegal Tobacco, Ends, and Cannabis Vaping Product Online</td>
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<td>Joshen Yang</td>
<td>Administration</td>
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<tr>
<td>Margie Brown-Coronel</td>
<td>Pedagogy, Training, Research and Documentation</td>
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### College of Humanities and Social Science

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<td>Lucia Alcala</td>
<td>Collaborative Research: Integrating Culturally Responsive Measures and Comparisons to Strengthen Development Models of Reasoning and Executive Function</td>
<td>$144,497</td>
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<td>CalOptima Member Needs</td>
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### College of Natural Sciences & Mathematics

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<td>Alfonso Agnew</td>
<td>Biocalculus Preparation Engagement &amp; Application (Bio-Calc Pea) Program</td>
<td>$1,442,644</td>
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<tr>
<td>Esther Chen</td>
<td>Biocalculus Preparation Engagement &amp; Application (Bio-Calc Pea) Program</td>
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### Fiscal Year 2022-2023

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<td>Brady Heiner</td>
<td>Project Rebound - Yerba Buena Fund 2022-2023 Yerba Buena Fund</td>
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<td>Sam Behsata</td>
<td>Collaborative Research: HDR DSC: Data Science Training and Practices Preparing a Diverse Workforce Via Academic and Industrial Partnership National Science Foundation</td>
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<td>U-RISE at Cal State Fullerton National Institutes of Health</td>
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<td>Megan Drangstveit</td>
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<td>Kristy Forsgren</td>
<td>Histopathology of Flatfishes From OCEC Reference and Wastewater Outfall Sites</td>
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<td>Veronica Jimenez</td>
<td>Identification and Function of Mechanosensitive Channels in Trypanosoma Cruzi National Institutes Of Health</td>
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<td>Mathew Kirby</td>
<td>Upgrades and Acquisitions for The Collaborative Cal State Fullerton Paleoclimatic, Coastal Processes, and Archaeology Lithics Research Laboratories National Science Foundation</td>
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<td>Geoffrey Lovelace</td>
<td>Rui: Next-Generation Numerical Relativity for Future Gravitational Wave Observatories National Science Foundation</td>
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<td>The CSUF-Led Partnership</td>
<td>For Inclusion of Underrepresented Groups in Gravitational-Wave Astronomy National Science Foundation</td>
<td>$833,701</td>
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</table>
Grants, Contracts, and Fellowships

**Terry McGlynn**
CA CESU Building Regional Capacity for Botanical Research and Outreach in The Mojave Desert
U.S. Department of the Interior - Bureau of Land Management
FY 22/23: $50,000
Multi-Year: $489,465.00

**Valbone Memeti**
National Science Foundation
$337,782
Multi-Year: $426,000
FY 22/23: $106,500

**Alison Miyamoto**
Compass: An Inclusive Pipeline for Research and other Stem Cell-Based Professions in Regenerative Medicine (iPROSPR)
California Institute for Regenerative Medicine
$2,880,800
Multi-Year: $2,880,800
FY 22/23: $2,880,800

**Nikolas Nikolaidis**
Interaction Between HSPAI4, a Seventy-KDA Heat Shock Protein, and Lipids in Stressed Cells
National Institutes Of Health
$2,156,120
Multi-Year: $2,156,120
FY 22/23: $328,413

**Joseph Read**
RUI: Neutron-Star Matter in the Ligo A+ Era and Beyond
National Institute of Health
$16,000

**Maria Soledad Ramirez**
Identifying Host Human Products Responsible for Natural Transformation of Resistance Traits in Acinetobacter spp.
National Institutes Of Health
$4,482

**Nabil Tanjeem**
ERI: Engineering Self-Assembled Responsive Materials by Employing Light-Driven Shapeshifting of Colloidal Particles
National Science Foundation
$20,635

**Marcelo Tolmasky**
Dealing with Antibiotic Resistance: Antisense Technology
National Institutes Of Health
$299,476

**Debbie Vengco**
OC-K-16 Education Collaborative Orange County Department of Education (OCDE) / OC Pathways
$360,000
Multi-Year: $360,000
FY 22/23: $211,000

**Danielle Zacheri**
Oyster Monitoring Associated with The San Diego Bay Native Oyster Living Shoreline Project
San Diego Unified Port District
$84,087

Fiscal Year 2022-2023

**Division of Administration and Finance**

**John Ramirez**
Beverage Container Recycling Project
California Environmental Protection Agency
$228,469

**Division of Student Affairs**

**Adriana Badillo**
Anaheim Public Utilities - College Internship Program
$84,087
Multi-Year: $84,087
FY 22/23: $74,702

**Tracy Bilbrew**
Fiscal Year 2022-2023
Jumpstart 2022-2023
Jumpstart for Youngchildren, Inc (AMERICORPS)
$1,487,985
Multi-Year: $1,487,985
FY 22/23: $297,597

**Division of Academic Affairs**

**Elaine Frey**
Do Shallow Carbonates Record Changes in the Global Carbon Cycle?
National Science Foundation
$46,000

**Katherine Powers**
Project Upgrades: Utilizing and Promoting Graduate Resources and Access for Disadvantaged Students
U.S. Department of Education
$598,675
Multi-Year: $598,675
FY 22/23: $268,413

**Romarilyn Ralston**
Project Rebound Mentorship Program
$299,476
Multi-Year: $299,476
FY 22/23: $76,621

**Patricia Littere**
Postbaccalaureate Achievement
U.S. Department of Education
$2,156,120
Multi-Year: $2,156,120
FY 22/23: $348,002

**Diana Vasquez**
CSUF Talent Search – Anaheim
U.S. Department of Education
$2,156,120
Multi-Year: $2,156,120
FY 22/23: $348,002

**Parvin Shahrestani**
Defining The Microbiota’s Response to and Influence on the Evolution of Drosophila melanogaster
National Institutes Of Health
$412,683
Multi-Year: $412,683
FY 22/23: $106,500

**Joshua Smith**
RUI: Advancing Gravitational-Wave Optics to Further Explore The Cosmos
$355,683

**Computer Vision Enhanced Reflectance Analyzer (Covera)**
Intellisense Systems, Inc.
$16,000

**National Science Foundation**
A+ Era and Beyond
$2,880,800
Multi-Year: $2,880,800
FY 22/23: $2,880,800

**Maria Estela Zarate**
O.C. K-16 Education Collaborative
O.C. K-16 Education Collaborative
$228,469
Multi-Year: $228,469
FY 22/23: $74,702

**Patricia Littere**
Postbaccalaureate Achievement
U.S. Department of Education
$2,156,120
Multi-Year: $2,156,120
FY 22/23: $348,002

**Debbie Vengco**
OC-K-16 Education Collaborative Orange County Department of Education (OCDE) / OC Pathways
$211,000
Multi-Year: $211,000
FY 22/23: $74,702

**Danielle Zacheri**
Oyster Monitoring Associated with The San Diego Bay Native Oyster Living Shoreline Project
San Diego Unified Port District
$84,087
Multi-Year: $84,087
FY 22/23: $74,702

**Jumpstart 2022-2023**
Jumpstart for Youngchildren, Inc (AMERICORPS)
$119,659
Multi-Year: $119,659
FY 22/23: $74,702

**Titan After School Program**
Buena Park School District
$201,625
Multi-Year: $201,625
FY 22/23: $74,702
A Special Thanks to Our Extramural Grants Submission PIs

CBE
- Maria Casanova Rivas
- Michael Daniel
- Adrian Fleissig
- Jianxin Gong
- John Jackson
- Hyunsu Kim
- Yinfai Kong
- Daoji Li
- Liqing Li
- Jenny Yi Zhang

ECS
- Sampson Akwafuo
- Yu Bai
- DoIna Bein
- John Kenneth Faller
- Kiran George
- Sergio Guerra
- Wenlin Han
- Sagil James
- Rong Jin
- Jin Woo Lee
- Rakeshshumar Mahato
- Phoolendra Mishra
- Huda Munjiy-Ahmed
- Nina Robson
- Kanika Sood
- Shiheng Su

HHD
- Sadeeka Al-Majid
- Katherine Bono
- Gordon Capp
- David Chenot
- Guadalupe Diaz Lara
- Lilia Espinoza
- Philipp Gedalanga
- Juye Ji
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- Archana McEligot
- Tabashir Nobari
- Bo Park
- James Ruby
- Mojgan Sami
- Angela Sojubi
- Jennifer Thompson
- Michele Wood
- Joshua Yang

HSS
- Lucia Alcala
- John Bock
- Deborah Diep
- Joshua DiPaolo
- Helene Domon
- Sheryl Fontaine
- Natalie Fousekis
- Laura Gil-Trejo
- Sarah Grant
- Brianna Harvey
- Brady Heiner
- Veronica Herrera
- Sara Johnson
- Kevin Lambert
- Maged Mikhail
- Yuko Okado
- Marei Rios-Hernandez
- Adam Roberts
- Zia Salim
- Stacy St. James
- Jessica Stern
- Samuel Stone
- Robert Voeks
- Susie Woo

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- Sam Behseta
- Kelvin Billingstey
- Jennifer Burnaford
- Julia Chan
- Joay Cooley
- Math Cuaungco
- Kristy Forsgren
- Allyson Fry-Petit
- Michael Groves
- John Haan
- William Hoese
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- Virginia Isava

Jessica Jaynes
- Veronica Jimenez
- Hope Johnson
- Niroshika Keppetipola
- Matthew Kirby
- Sean Loyd
- Alison Marzocchi
- Terry McGlynn
- Valbone Memeti
- Nikolai Nikolaidis
- Jeffrey Olberding
- David Pagni
- Erin Misty Paig-Tran
- Steven Pecic
- Andrew Petit
- Jocelyn Read
- Melanie Sacco
- Nicholas Salzameda
- Meng Shen
- Joshua Smith
- Roberto Soto
- Amelia Stone-Johnston
- Nabilia Tarjeem
- Iamuna Tifrea
- Sachell Villafane-Garcia

VPAA
- Elaine Frey
- Stacy Mallicoat
- Romarilyn Raiston
- Yuying Tsong
- Kim Wagner

VPAF
- David Hess
- Michael Lolito

VPASA
- Adriana Badillo
- Carmen Curiel
- Brett Goldberg
- Dawn Macy

Research and Sponsored Project
ACADEMIC AFFAIRS

New Faces

Alfredo Hernandez
Assistant to the AVP

Ann Holbrook
Admin Support Coordinator

Nicole Bonuso
UROC Director

Research and Sponsored Projects
ECONOMICS AFFAIRS

Angi Arambulo
Admin Support Coordinator

Letricia Satterwhite
Sponsored Programs Admin

Mary Pons
Research Development Specialist/Officer, ECS/NSM

Selina Chou
Student Assistant

Stephanie Vargas
Student Intern
HIGHLIGHTS OF CSUF RSCA NEWS

- $1.2 Million Grant to Prepare Underrepresented Students for Doctoral Programs in Gravitational-Wave Astronomy
- Six Titan Teams Selected for National Undergraduate Research Program
- Cal State Fullerton Programs to Receive Four Hispanic-Serving Institutions Community Grants
- $3 Million Grant Boosts Student Opportunities in Stem Cell Research
- $1.4 Million in Grants Promote College and Career Pathways for BC Students
- Chemistry Study Improves Method to Measure Vibrations of Solids
- Study Reveals How Metaphors Help Women Communicate Emotions During Breast Cancer Testing
- Derdei Bichara: Empowering Africa’s Future Mathematicians
- Art Students Bring Color and Creativity to Prison Communities
- Students Research Connection Between Depression and Alzheimer’s Disease
- Amazon Scholarship Recipient Discovers the Power of Artificial Intelligence
- $1.7 Million NIH Grant to Train Students in Biomedical Science
- Geologist Goes Home to Study Turkey’s Destructive Earthquakes
- 26 Students Win First Place in Creative Activities and Research Competition
- Biology Graduate Student Receives National Science Foundation Fellowship to Study Rare Megamouth Shark
- New Opportunity for Underrepresented STEM Majors Interested in Aging
- Communicative Disorders Major Receives National Science Foundation Fellowship to Address Inequity in Higher Education
- Biology Student Earns National Ecology Award for Science Policy Training
- Titans Bring Home Top Awards From Statewide Research Competition
- CSUF Awarded Nearly $10 Million to Train Social Workers for Post-Pandemic Needs