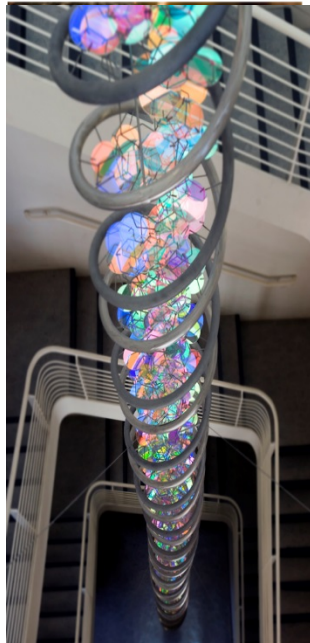


UC DAVIS

DISCOVER WHAT MATTERS



Annaliese Franz
September 24, 2018

Undergraduate
Research Center





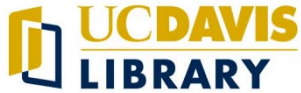
UC DAVIS

Undergraduate Research Center

Office of Undergraduate Education

Mission Statement

Our mission is to inspire and facilitate students' engagement in research, scholarship and creative activities in all disciplines. We empower students to find research opportunities with UC Davis faculty, and provide them with resources to hone skills that are vital to success as researchers and in their future careers.



THE GREEN INITIATIVE FUND UC DAVIS



Division of Student Affairs

UC DAVIS

Undergraduate Education



UC DAVIS

Undergraduate Research Center

- NSF CAMP
- MURPPS
- IIFH research fellows
- Mentor-Mentee Program
- Beckman Scholars Program



UC DAVIS
First-Year Seminars



UC DAVIS
University Honors Program



UC DAVIS
Center for Educational Effectiveness



UC DAVIS
Center for Leadership Learning



UC DAVIS
Academic Advising



Stop by to visit us...

Location: 2300 Student Community Center

Hours: Monday–Friday; 9:00 a.m.–5:00 p.m.

Email: urc@ucdavis.edu



Annaliese Franz



Elizabeth Nuñez



Lolita Adkins



Dee Clark

or visit the URC website: urc.ucdavis.edu



Engaging Students in Undergraduate Research

Benefits to undergraduate students

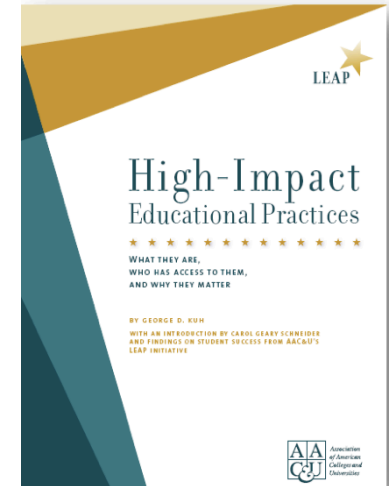
Benefits to faculty

Benefits to graduate students and postdocs

Benefits to research enterprise

Increases visibility of research at UC Davis

Increase legislature and donor support



"I enjoy mentoring undergraduates and find that they invigorate my lab with their enthusiasm. I had such a great undergraduate experience myself and want to help educate the next generation of scientists with an undergraduate research experience."

Prof. Susan Kauzlarich. Chemistry 2017 Chancellor's Award for Excellence in Mentoring Undergraduate Research



Awards and Programs for Undergraduate Research

- Provost's Undergraduate Fellowship (PUF)
- Chancellor's Awards
 - Award for Excellence in Undergraduate Research
 - Award for Excellence in Mentoring Undergraduate Research
- Undergraduate Travel Awards (e.g. to National Conferences)
- Hanson Family Undergraduate Publication Award – **New in 2018!**
- IIFH Undergraduate Research Fellowship – **New in 2018!**
- Research Rockstars Undergrad Slam – **New in 2018!**
- Research Ambassadors – **New in 2018!**
- Special Undergraduate Research Programs
 - NSF CAMP Scholars
 - MURPPS Scholars
 - Mentor-Mentee Program in Humanities & Social Sciences
 - Beckman Scholars Program
 - McNair Scholars Program (Office of Grad Studies)

... and many more!



Approximately **50%** of all UC Davis undergraduate students (representing *more than 100 majors* at UC Davis) assist faculty in research projects or creative activities during their academic career.

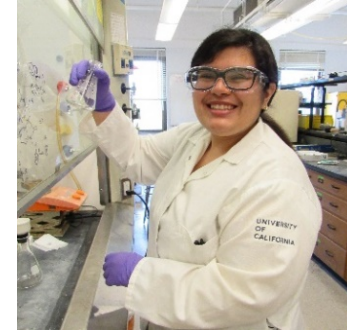
Source: UC Undergraduate Experience Survey, 2017





Research takes many forms

- Laboratory benchwork
- Modeling and computations
- Fieldwork
- Surveys and interviews
- Library searches and archive work
- Data science initiative



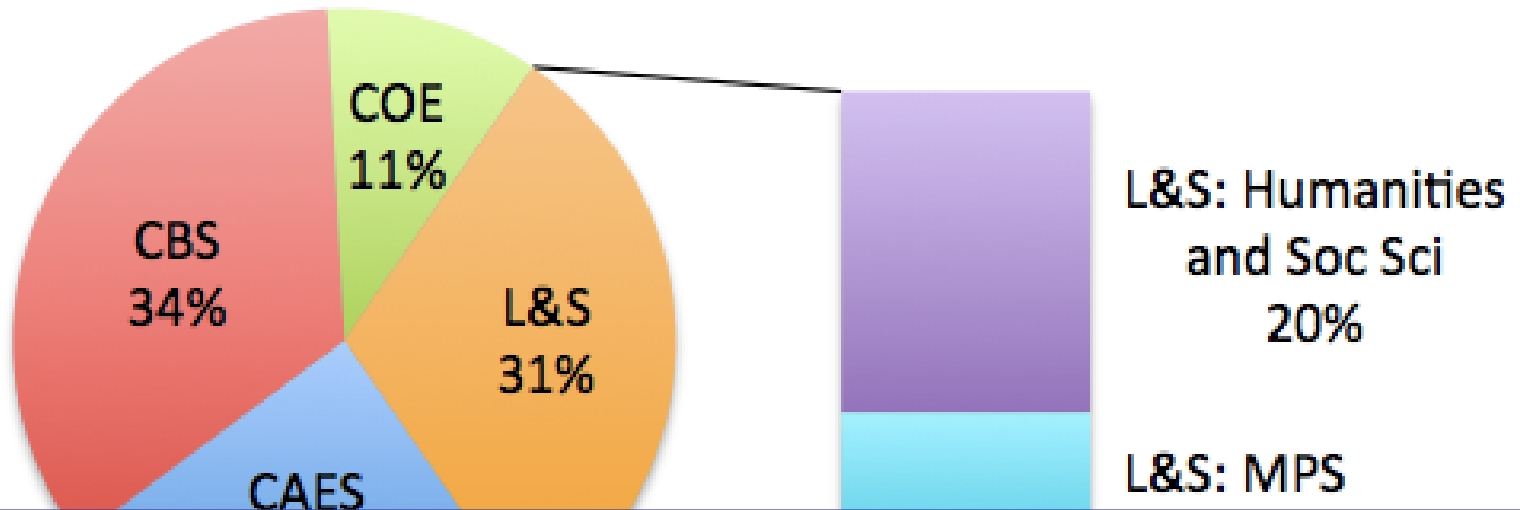
... in many places

- In departments across all four colleges
- Davis and Sacramento campuses
- Schools of Medicine, Veterinary Science, and Education
- National Labs with affiliated faculty members
- Research Stations (Bodega, Tahoe, etc)
- UC Center Sacramento
- Library Archives



Research & Discovery Experiences in All Majors

Student % by Major

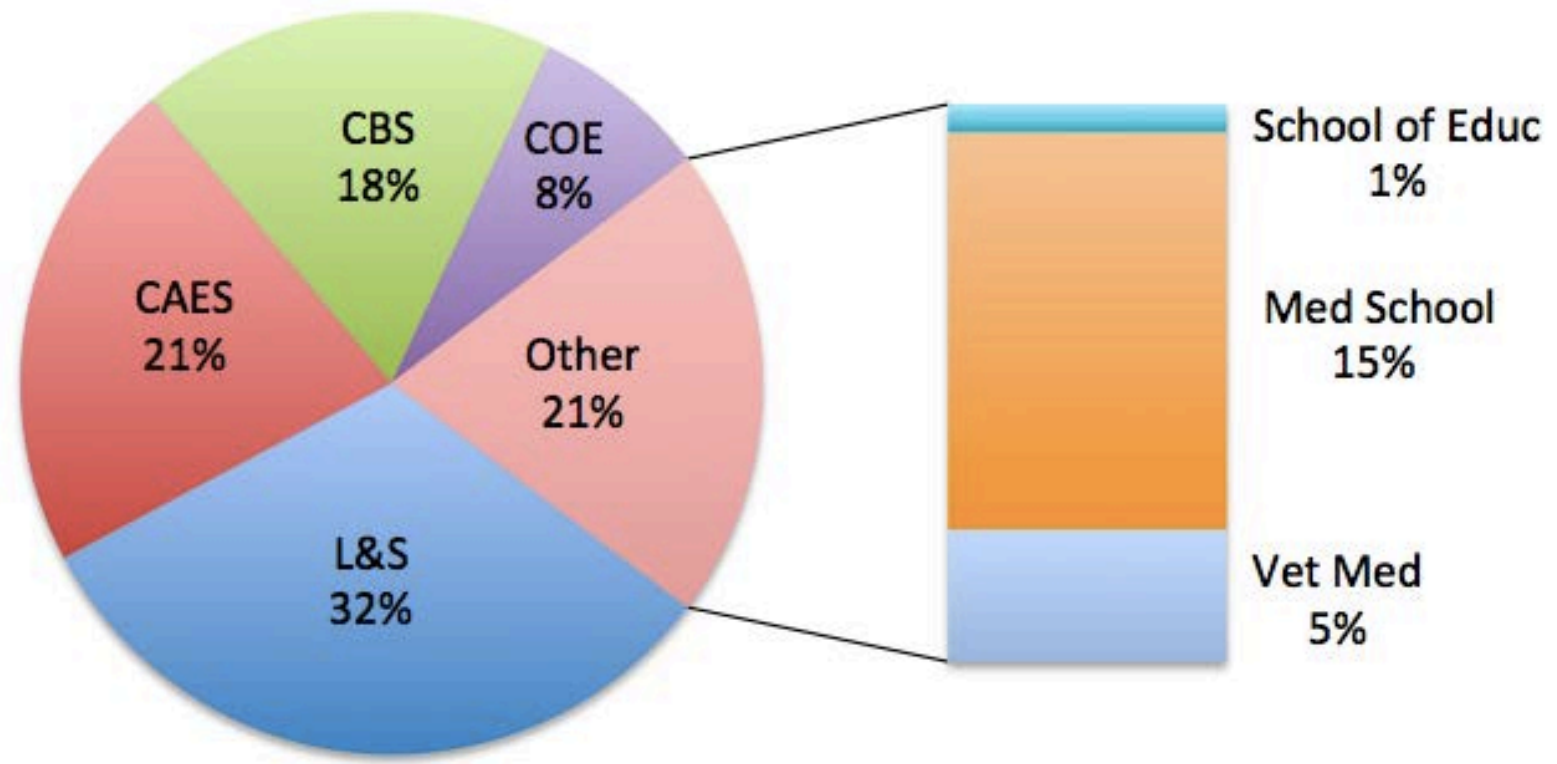


In 2017-18, students engaged in faculty-sponsored research and discovery experiences represented ***more than 100 of the 110 majors*** at UC Davis.



Research & Discovery Experiences in All Majors

Student % by faculty sponsor location



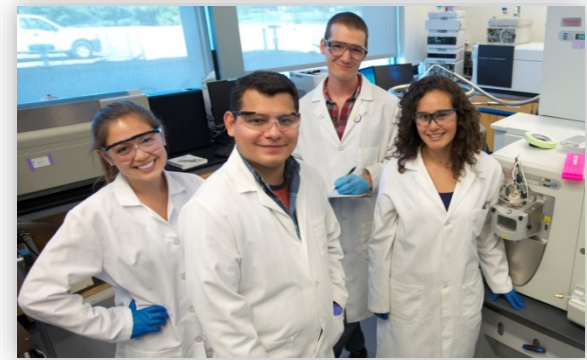
Numbers based on 2018 conference presenters



Getting Involved with Undergraduate Research

Benefits to students

- Earn credit towards your degree
- Build technical skills
- Lab experiences outside of coursework
- Apply knowledge to real-world applications
- Develop communication and writing skills
- Experience with state-of-the-art instrumentation
- Gain insight into career possibilities
- Enhance your resume and build a professional network.
- Valuable opportunities for Presentations & Publications
- More competitive application for campus awards, graduate school and fellowships





It Takes More Than a Major.... Importance of Research

93% of employers said that “a candidate’s demonstrated capacity to think critically, communicate clearly, and solve complex problems is *more important* than their undergraduate major.”

<https://www.aacu.org/press/press-releases/employers-more-interested-critical-thinking-and-problem-solving-college-major>



UC DAVIS

Undergraduate Research Center

Office of Undergraduate Education



Engaging Students in Undergraduate Research *Benefits to Faculty*

- Can often be as productive as new graduate students
- Undergraduates have not yet developed bad lab habits!
- Including undergraduate mentorship as part of your “Teaching” (MyInfoVault) and in the candidate “diversity statement” for merits & promotions.



Home > Trainees List > Trainees

Add "Trainees"

* = Required Field

Annaliese K Franz

Enter the trainees instructor information.

* Years:

* Trainee Name:

* Trainee Type:

Degree:

Current Position:

Save Cancel

Home > Undergraduate Mentorship List > Undergraduate Mentorship Form

Add "Undergraduate Mentorship"

* = Required Field

[Do you want to format text?](#)

Annaliese K Franz

Enter undergraduate students for whom the candidate provided significant mentorship. Examples of "significant" mentorship activities may include: 099 or 199; mentored to award; mentored to PUF grant.

* Name of Student:

* Year Started: * Year Ended:

* Description:

Save Cancel

Include undergraduate mentorship as part of "Teaching" (MyInfoVault) and in the candidate "diversity statement" for merits & promotions.



Engaging Students in Undergraduate Research *Benefits to Faculty*

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Engaging Students in Undergraduate Research *Benefits to Faculty*

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- Including undergraduate mentorship as part of your “Teaching” (MyInfoVault) and in the candidate “diversity statement” for merits & promotions.
- Developing a vibrant culture of mentoring establishes a foundation for including outreach and diversity aspects in grant proposals.
- Students’ questions and inquiring minds give you a fresh perspective.
- Win faculty awards and other recognition for mentoring; student accolades also directly reflect on the faculty mentor.
- Positively impact students at early stage in academic/professional career.
- Provides opportunities for graduate students, postdocs and lab techs to develop mentoring skills, which is important for their career development.



URC Services for Students

Workshop (examples)

- How to get involved in research
- How to write an abstract
- How to give a presentation
- Applying for awards

One-on-one Advising

- Understand and prepare for undergraduate research
- Academic planning related to research
- Contacting a faculty research sponsor



Poster Printing for Conferences

Awards & Funding

Chancellor's award, Travel award, Provost's Undergraduate Fellowship (PUF), Publication Award, applying to summer research programs



Email analysis and etiquette

Use professor's proper title and last name – shows respect

Dear Dr. Jessica,
I am a senior biology student and looking for research.
Do you still have available opposition in your lab?
I am looking forward to hear from you.

Thanks

Why their research?
No evidence provided
to indicate anything
about their research
has been read

Lacks
grammar, basic
letter etiquette
and correct
spelling



Undergraduate Research, Scholarship & Creative Activities Conference

For 2018 Conference:

679 total presenters

507 poster presenters

164 oral presenters

8 arts/design presenters

365 research sponsors
(faculty and research staff)

121 moderators

82 majors represented

Over **5,500 attendees**, including friends, family, colleagues, peers, staff, and various community college faculty with their students



Mark your Calendars!

The 30th Annual UC Davis Undergraduate Research, Scholarship & Creative Activities Conference will be **April 26-27, 2019**



THANK YOU for your SUPPORT of Undergraduate Research!

- Mention research methods and benefits of participating in undergraduate research in classes you teach
- Serve as a moderator for the Undergraduate Research, Scholarship & Creative Activities Conference (approx 2 hr time commitment)
- Serve on a faculty panel sharing about your own research experiences participating in undergraduate research



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- Mentor an undergraduate student in a discovery experience
- Mentor undergraduate students to co-author publications
- Request supplement funding for undergraduate research from the NSF (or other agencies)
- Develop and teach a First Year Seminar Course-based Undergraduate Research Experience (FYS-CURE) related to your research

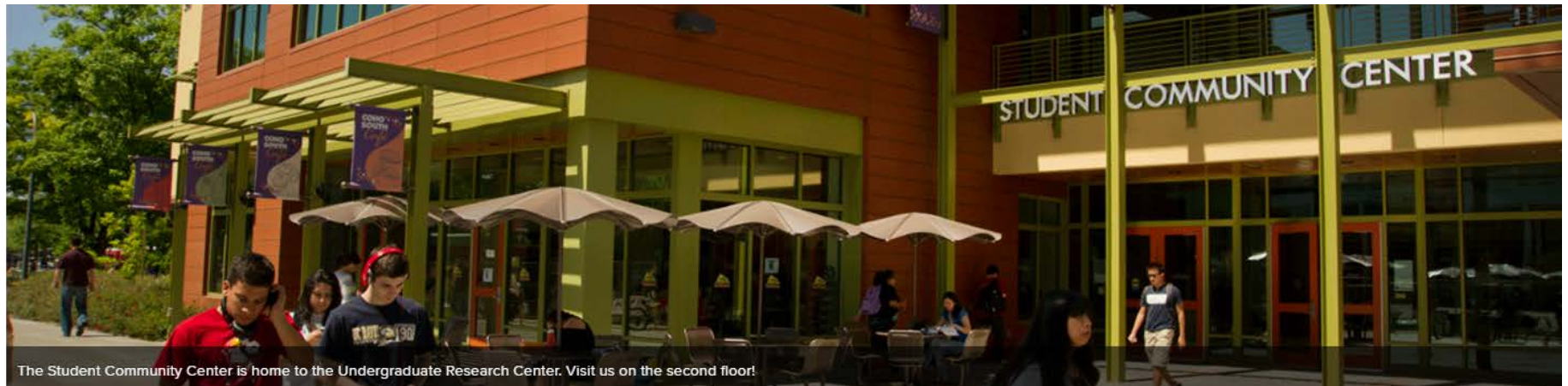


Thank you!

Location: 2300 Student Community Center

Hours: Monday–Friday; 9:00 a.m.–5:00 p.m.

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The Student Community Center is home to the Undergraduate Research Center. Visit us on the second floor!

or visit the URC website: urc.ucdavis.edu