

STUDENT RESEARCH IN BIOLOGY

@ **CSUDH**

Why do research?

- It is fun!
- You get to apply your biology knowledge to real-life scenarios
- You get to practice your lab, computer, and communication skills
- It can be a great way to travel – e.g., go to conferences and do fieldwork
- It can help if you want to go to graduate school
- You can get paid and / or get credit

Where can you do research?

- On-campus, during the school year and summer; see the back of this flyer for possible labs
- At universities and hospitals near campus (e.g., The Lundquist Institute, Charles Drew University) during the school year and summer
- *Really* off campus at a Research Experience for Undergraduates (REU) during the summer; learn more here:
<https://www.nsf.gov/crssprgm/reu/>

How do you get started?

1. Think about why you want to do research
2. Decide what types of research are most interesting to you
3. Contact a professor whose research you find interesting to see if they are looking for students

Your major advisor or your professors can also help you get started!

Programs on campus

A few campus programs support students doing research.

- LS-AMP: this program provides research & training opportunities as well as stipends & grants for students doing research; apply by emailing Gaby (igomez@csudh.edu)
- McNair Scholars: this program provides research & training opportunities as well as stipends & grants for students doing research; learn more & apply here: <https://www.csudh.edu/mcnair/>
- RISE program: this program provides training opportunities & stipends for students doing research; learn more & apply here: <https://www.csudh.edu/rise>

Getting paid & getting credit

Almost all CSUDH students who do research either get paid or get credit.

To get paid:

- Your research advisor might have grant money to support you
- Or, if you are part of one of the programs on campus, you can get paid (see above)

To get credit:

- You can take Bio 394 (for 1, 2 or 3 credits), either for school year or summer research
- If you are an EE major, you can also take Bio 496 (for 1, 2 or 3 credits), either for school year or summer research

Professor	Department	Research Description	Taking students?
Dr. Karin Kram kkram@csudh.edu	Biology	Experimental evolution of microbes	Yes
Dr. Samantha Leigh sleigh@csudh.edu	Biology	Ecology and physiology of marine organisms	Yes
Dr. Charlene McCord cmccord@csudh.edu	Biology	Ecology and evolution of marine organisms	Yes
Dr. Terry McGlynn tmcglynn@csudh.edu	Biology	Ecology of tropical ants and urban biodiversity	Yes
Dr. Shehla Pervin spervin@csudh.edu	Biology	Molecular mechanisms of cancer	Yes
Dr. Sonal Singhal ssinghal@csudh.edu	Biology	Evolutionary genetics of speciation	Yes
Dr. Kathryn Theiss ktheiss@csudh.edu	Biology	Ecology and evolution of plants	Yes
Dr. Justin Valliere jvalliere@csudh.edu	Biology	Ecology of plants, with a focus on global change	Yes
Dr. Fang Wang fwang@csudh.edu	Biology	The genetics of development in zebrafish	Yes
Dr. Sarah Lacy slacy@csudh.edu	Anthropology	Dental disease in extinct hominin species	Yes
Dr. Philip Vieira pvieira@csudh.edu	Psychology	Addiction and neurobiology	Yes
Dr. Horace Crogman hcrogman@csudh.edu	Physics	biophysics	
Dr. Erin McCauley emmcauley@csudh.edu	Chemistry	Natural Products Drug Discovery from Marine Organisms	In Summer 2021
Dr. Kari Pederson kpederson@csudh.edu	Chemistry	The dynamics and structure of DNA and protein-sugar complexes	Yes
Dr. Patrick Still pstill@csudh.edu	Chemistry	Chemistry of natural products from plants	Not currently
Dr. Aru Thangavel athangavel@csudh.edu	Chemistry	Supramolecular chemistry, Organic synthesis	Yes
Dr. Alex Chen achen@csudh.edu	Math	Mathematical and computational biology—virology	In 2021
Dr. Cynthia Sanchez-Tapia cysanchez@csudh.edu	Math	Analysis of biological phenomena through mathematics	Yes
Dr. Grace Wang ywang@csudh.edu	Math	Data analysis in medicine	Yes