

Derek Huang

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WORK EXPERIENCE

Stanford University, Dunn Lab

April 2015 – August 2021

Ph.D. Student Researcher

Stanford, CA

- I conducted research as a Biophysics Ph.D. student in Prof. Alex Dunn's lab at Stanford University.
- I used a combination of single-molecule biophysical experiments, Monte Carlo simulations and mathematical modeling to understand how protein-protein bonds at cell adhesions rupture under mechanical load.

Varsity Tutors

May 2013 – May 2014

Tutor

Tucson, AZ

- I provided one-on-one and group tutoring for a variety of K-12 academic subjects including Mathematics, Chemistry, Physics and SAT test preparation.

PORTFOLIO PROJECTS

This is a selection of three of the projects I've worked on. Please follow the link in each github page's README section in order to view a live demo.

Calculator (<https://github.com/derekh3/odin-calculator>)

- I built a calculator app website that allows the user to perform arithmetic operations.
- The calculator is designed to mimic the function of a typical real-world calculator or a calculator utility.

To-do list (<https://github.com/derekh3/todo-list>)

- I built a to-do list website that stores to-do tasks created by the user and organizes them by project.
- The website uses local storage to ensure that the to-do tasks are saved between sessions on the same computer.

Weather app (<https://github.com/derekh3/weather-app>)

- I built a website that displays up-to-date weather information from a city of the user's choice.
- The website uses an API in order to retrieve information from a weather data source.

To see other work I've done, please visit my GitHub site (<https://github.com/derekh3>).

EDUCATION

University of Arizona

September 2009 – May 2014

B.S., Physics and Mathematics

Tucson, AZ

- *Graduated summa cum laude; GPA: 3.95/4.0*

Stanford University

September 2014 – August 2021

Ph.D. (did not complete), Biophysics

Stanford, CA

- GPA: 3.89/4.0

SKILLS & INTERESTS

- **Skills:** HTML, CSS, Javascript, Adobe Illustrator, Microsoft Office (Excel, Powerpoint, Word), MATLAB
- **Interests:** Hiking, camping, sci-fi books and movies, technology, watching Jeopardy