

MARGARET DONOVAN

Bioinformaticist, Student, & Pythonista

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🌐 www.mkrdonovan.com

📍 San Diego, CA



EDUCATION

PhD in Biomedical Informatics

University of California, San Diego

📅 Sep 2015 - ongoing

📍 La Jolla, CA

- Frazer Lab
- National Library of Medicine Fellow (2015-2018)

BS in Bioengineering

University of California, Santa Cruz

📅 Sep 2009 - Aug 2013

📍 Santa Cruz, CA

- Minor in Bioinformatics
- Senior Thesis: Developing a wound-healing assay to evaluate the effect of age on the function of iPSC-derived fibroblasts.

EXPERIENCE

Graduate Student Researcher

University of California, San Diego | Frazer Lab

📅 June 2016 - ongoing

Bioinformatics Research Associate

Illumina, inc. | Protein Engineering

📅 Dec 2013 - June 2015

📍 San Diego, CA

- Developed multiple bioinformatics tools to assist performance evaluation of engineered proteins
- Designed and developed a purification protocol, and conducted downstream activity assays on new Nextera library prep transposase mutants with reduced bias potential

Undergraduate Research Assistant

University of California, Santa Cruz | Ralston Lab

📅 June 2012 - Aug 2013

📍 Santa Cruz, CA

- Optimized fibroblast cell culture protocol for cells derived from old mice
- Developed an in vitro wound-healing model to test the effect of age on the functionality of iPSC derived fibroblasts
- Established time-course and data analysis methodology for evaluating wound-healing model

SUMMARY

Margaret is a graduate student interested in understanding how genetic variation impacts diseases, while doing yoga, eating spicy food, and writing sci-fi stories.

SKILLS

Python



Statistics



Genomics



COURSES

Principles of Biomedical Informatics (UCSD, MED 264)

Statistical Methods in Bioinformatics (UCSD, MATH 263)

Statistical Learning in Bioinformatics (UCSD, BNFO 285)

Genomics, Proteomics, and Network Biology (UCSD, CSE 283)

Technical Writing for Computer Engineers (UCSC, CMPE 185)