

Anusha Subramanian

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EDUCATION

University of California, Berkeley

Aug 2018 - May 2022

B.A Molecular and Cellular Biology (Genetics, Genomics and Development), Minor in Data Science; GPA: 3.85/4.00

- **Relevant Coursework:** General Biology and Chemistry, Organic Chemistry, Toxicology, Biophysical Chemistry, Calculus Statistics and Combinatorial Mathematics, Structure and Function of Programming, NLP Analysis

RESEARCH

UCLA Genetic Recombination Lab

Los Angeles | July 2020 - Present

Research Assistant (PI: Dr. Yi Yin)

- Working on computational biology driven analysis of single-cell sequencing data using Python and UNIX to understand Homologous Recombination in yeast mutants.

UC Berkeley Rine Lab

Berkeley | Sep 2019 - Present

Research Assistant (PI: Dr. Jasper Rine)

- Designed and executed genetic screens on yeast cells to find mutations that allow silencing even in the presence of Nicotinamide (chemical inhibitor). Currently on pause until in-person lab work is authorized.

Capstone Research Project

Mumbai | May 2017 - Dec 2017

Independent Researcher (Topic: UV Protective Effects of Natural Oils)

- Investigated effects of different natural oils on budding yeast cells when exposed to UV-radiation.

PROJECTS

Youth Perception of Sexual Education in India

Berkeley | Summer 2020

Conducted and analyzed data from a survey that looked at what the Youth of India perceive about sexual education and whether there exists an informational gap between what they want to know and what is being imparted to them.

- Work featured and cited in "Building STEAM for DH and Electronic Literature: An Educational Approach to Nurturing the STEAM Mindset in Higher Education" Electronic Book Review, <https://doi.org/10.7273/y68f-7313>.

Network of Magic in Harry Potter

Berkeley | Summer 2020

Conducted a Social Network Analysis (in Python) on the Harry Potter series to derive a "network" of magic that surrounds each character. It maps characters to spells being used in their close vicinity to get an interactive plot of magic.

EXPERIENCE

COVID-19 Testing

Mumbai | April 2020 - May 2020

Temporary Intern at Suburban Diagnostics Ltd.

- Extracted RNA from patient samples and tested for viral particles using RT-PCR at an Indian pandemic testing centre

SRL Diagnostics

Mumbai | June 2019 - Aug 2019

Research and Molecular Diagnostics Intern

- Worked on understanding and apply molecular and immunological and cytopathological diagnostic techniques such as karyotyping, Fluorescence in-situ hybridization for tumor identification, autoimmune IFAs etc.

Abbott Pharmaceuticals

Mumbai | June 2017 - July 2017

Medical Writing and Clinical Commerce Intern

- Trained in an on-going, data-search research project on Investigator-Initiated Studies and as part of the final project, wrote a white paper on the Indian Pharmaceutical Industry.

ACTIVITIES

Leadership Roles:

March 2020 - Present

- Head of Content for Aspire for Her Foundation, a non-profit focused on bringing more women into the workforce.

Writing & Publishing:

- Berkeley Scientific Journal: Writer (interviews and blog department)
- The Daily Californian: Staff Writer and Columnist
- Author: Heirs of Catriona, Never Gone (young adult fiction)

Spring 2020 - Present
Fall 2018, Fall 2020 - Present
published in 2012, 2016

SKILLS

Python (Pandas, Scikit, Scikit Allele, Matplotlib, Networkx, Word2Vec, NLP, NLTK, Plotly), Design of Experiment, PCRs, Plasmid Transformation, NGS, Strain Creation, SQL, Scheme, Git (GitHub: @anusha0712), Jupyter Notebooks