Anna Qi

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Education

University of California San Diego, La Jolla CA
B.S. Bioinformatics, GPA 3.91/4.0 September 2019 – July 2022

- Eleanor Roosevelt College Honors Program, Sustain-a-thon 3rd place
- Provost Honors x3
- Relevant Coursework: Biological Databases, Advanced Bioinformatics Lab, Applied Genomic Technologies, Bioinformatics Probability and Statistics, Genetics, Molecular Biology, Metabolic Biochemistry, Organic Chemistry, Advanced Data Structures, Algorithms

Industry Experience

Pfizer, Kalamazoo MI
Summer Student Worker June 2021 – August 2021

- Developed and implemented R package using genetic algorithms to speed up development of spectral models by 90+% while improving accuracy and robustness
- Developed R package for extracting data from the process historian. Then used three-way block data analysis methods to predict the final particle size distribution of a crystallization reaction or fermentation yield based on batch record data

Biology IT Department at UCSD, La Jolla CA
Student Website Assistant March 2021 – Present

- Complete website content updates, style changes, website maintenance and quality control on the biology division website for departmental staff
- Refactor outdated back-end scripts for loading in data with JavaScript and Handlebars

Additional Experience

Chi Hua Chen Lab, La Jolla CA
Undergraduate Neuroscience Bioinformatics Researcher October 2020 – Present

- Writing scripts in R to perform data exploration and visualize relationships between inversion polymorphisms and genotypes in different individuals using linear regression models and heatmaps
- Utilizing R packages to perform localization, propagation, and clustering to identify and analyze proximal genes to Alzheimer's disease-risk genes

Dr. Mali Lab through the Undergraduate Bioinformatics Club at UCSD, La Jolla CA
Summer Project Team Member June 2021 – Present

- Developing a tool to design de novo Zinc Finger proteins towards user defined DNA target sequences using machine learning as well as predict target DNA binding sites for existing Zinc Finger proteins
- Scraping databases to extract endogenous Zinc Finger sequences and binding sites