Anna Qi

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Education

University of California San Diego, La Jolla CA
Ph.D. Bioinformatics and Systems Biology   September 2022 – Present

- <u>Relevant Coursework:</u> Principles of Artificial Intelligence: Probabilistic Reason and Learning

University of California San Diego, La Jolla CA
B.S. Bioinformatics, Minor in Computer Science, GPA 3.85 (Cum Laude)   September 2019 – June 2022

- Eleanor Roosevelt College Honors Program. Provost Honors

Professional Experience

Biology IT Department at UCSD, La Jolla CA
Student Website Assistant   March 2021 – September 2022

- Completed website content updates, style changes, website maintenance and quality control on the biology division website as requested by departmental staff
- Refactored outdated back-end JSP servlets for loading in data with JavaScript and Handlebars

Chi Hua Chen Lab, La Jolla CA
Undergraduate Bioinformatics Researcher   October 2020 – June 2022

- Used MATLAB scripts to process diffusion weighted imaging
- Utilized R packages to perform localization, propagation, and clustering to identify and analyze proximal genes to Alzheimer's disease-risk genes
- Wrote scripts in R to perform data exploration and visualize relationships between inversion polymorphisms and genotypes in individuals using linear regression models and heatmaps

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

- Developed and implemented R package using genetic algorithms to reduce time spent developing predictive models by 90+% while improving accuracy and robustness
- Developed R package for extracting data from an old process historian. Allowed plant professionals to pull historical data in a few minutes which was previously a multi-day effort
- Used sNPLS, PARAFAC, and Tucker3 analyses to predict critical response variables based on batch record variables

Publications

Larger cerebral cortex is genetically correlated with greater frontal area and dorsal thickness. Carolina Makowski, Hao Wang, Anjali Srinivasan, **Anna Qi**, Yuqi Qiu, Dennis van der Meer, Oleksandr Frei, Jingjing Zou, Peter M. Visscher, Jian Yang, Chi-Hua Chen. bioRxiv 2022.05.19.492686; doi: https://doi.org/10.1101/2022.05.19.492686