Experience

Staff Research Associate

University of California Los Angeles (2022 - present)

- Conducting research in two labs investigating metabolic and transcriptional reprogramming across prostate cancer disease states:
 - Goldstein lab
 - Boutros lab
- Leading two distinct projects in parallel
- Hands-on experience in culturing and performing experiments with ~8 different prostate cancer model systems:
 - Lentiviral transductions
 - Immunoblotting
 - Metabolic tracing assays
 - Viability assays
- Developing and applying computational pipelines for transcriptional analysis
- Developing an R datasets package containing processed transcriptional data from over 200 samples across seven different studies at release:
 - Performed data curation and quality assessment where I detected and corrected sample swaps in external datasets
 - Added gene set enrichment analysis and meta-analysis features
 - Implemented a custom gene identifier mapping system to enable cross-species analysis without relying on external databases
 - Implemented conditional down-sampling and Cartesian offsetting to resolve graphics-rendering failures caused by memory limits and label collisions in enrichment and volcano plots

Lead K-12 Mathematics Instructor

Mathnasium, LLC (2019 - 2021)

- Provided one-on-one and group tutoring in foundational mathematics (e.g. algebra, geometry, trigonometry, calculus) and other general science courses
- Managed learning center operations on weekends:
 - Administered assessments to new students
 - Managed student learning plans
 - Followed up with leads
 - Scheduled and matched instructors with students

Education

BS: Biochemistry

University of California Los Angeles (2020-2022)

- Conducted biomedical research while completing undergraduate coursework
- Completed a graduate-level course in mass spectrometry proteomics, and upper-division electives in mathematics and machine learning

AA (honors): Social and Behavioral Science

Santa Monica College (2015-2020)

- Explored multiple academic tracks before transitioning to STEM
- Worked part-time in service roles and as a peer tutor for foundational science and math courses

