EMILY TANG
DATA SCIENTIST

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EDUCATION

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
MAS Clinical Research with Specialization in Data Science, Graduating in June 2022

UNIVERSITY OF CALIFORNIA, BERKELEY
BA Molecular Cell Biology – Biochemistry and Molecular Biology, Class of 2019

SKILLS

R, Python (scikit-learn, NumPy, Pandas, PyTorch), SQL, Stata

PROJECTS

EASIER-net (Ensemble by Averaging Sparse-Input Hierarchical Networks) – Python, PyTorch
Owned multiple features end-to-end in the open-source project, including overhauling existing project architecture and enabling the package on Python Package Index/PIP.

Biomarker cross-platform compatibility – R
Developed a data pipeline and analysis framework for creating a methylation biomarker using elastic net regression.

EXPERIENCE

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO   *San Francisco, CA*
Graduate Student Researcher, Dr. Annette Molinaro, PhD – Neurological Surgery   *2020–Present*

• Led several projects to investigate abstract questions, leveraging a variety of machine learning techniques such as elastic net regression, random forests, GLMs, dimensionality reduction (PCA, t-SNE).
• Contributed to multiple key statistical analyses and data visualizations directly impacting the lab's major projects.
• Built an algorithmic biomarker with high-dimensional DNA methylation Illumina microarray data to study responses to glucocorticoid use in various disease states and phenotypes.
• Presented work at the ***Society for Neuro-Oncology Annual Meeting*** (2021) and worked on a co-authored paper under review at **Nature Communications**.

Head Teaching Assistant, BIOSTAT 216: Machine Learning in R for Biomedical Sciences   *2022*
• Taught graduate-level machine learning course to 30+ students and clinicians.
• Evaluated assignments and assisted students with conceptual and coding problems.

JGB BIOPHARMA CONSULTING, INC.   *Belmont, CA*
Recruiting Sourcer   *2020–Present*

• Utilized Boolean searching to identify potential candidates on LinkedIn and the Bullhorn ATS and coordinated calls between applicants and the Technical Recruiter.
• Engaged with 30+ potential PhD/MD level candidates a week about their fit for Scientist – VP technical roles in bioinformatics, R&D, data science, and project management.

BLACKTHORN THERAPEUTICS, INC.   *San Francisco, CA*
Research Associate, In-Vitro Pharmacology   *2019–2020*

• Wrote scripts for Biomek Automated Liquid Handler programs to optimize existing high-throughput screening experimental capacity by 250%.
• Compared dose response curves with GraphPad Prism and communicated with chemistry team about compounds for the pharmacological modulation of receptors in the brain.

UNIVERSITY OF CALIFORNIA, BERKELEY   *Berkeley, CA*
Undergraduate Research Assistant, Dr. George Bentley, PhD – Integrative Biology   *2016–2019*

• Quantified fluorescence and area of fluorescent microscopy images of neuron cells using ImageJ.
• Led efforts to troubleshoot and optimize methods to reduce contamination in tissue cultures by 95%.

AWARDS

• **UCSF Weill Institute for Neurosciences** - Research Support for Female Learners Impacted by COVID-19   *2021*