MINYE ZHOU

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Education and Training

University of California San Diego (BA), Major in Bioengineering& Bioinformatics 09/2018 to 05/2022
Major GPA: 3.925/4.0
Harvard University (MS), Major in Computational Biology and Quantitative Genetics 09/2022 to Current
GPA: 3.975/4.0

Skills

Programming Skills: R (Advanced), Python (Advanced), shell/bash scripting (Intermediate)
Bioinformatics: Bulk-seq analysis (RNA-seq and ATAC-seq), Single-cell omics and integration, GWAS, Cytometry data analysis and visualization, Machine learning, Deep learning.
etc.

Experiences

Teaching Assistant, T.H Chan School of Public Health 08/2023 to Current
- Working as TA for data science and genomic data manipulation classes. Organizing class materials and website. Holding lab sessions and individual office hours.

Research on Non-coding Mutations, **Boston Children's Hospital** 07/2023 to Current
- Development of new pipelines on analysis of non-coding mutations in cis-regulatory elements to infer the cancer-specific gene regulations.
- Integration of bulk RNA-seq and ATAC-seq to build network from chromatin accessibility to transcription factors binding and downstream gene expression.
- Testing and modifying new tools.

Research on Precision Diagnostics of Leukemia, J. Craig Venter Institute 05/2021 to 05/2022
- Development of automated diagnosis pipeline to improve the accuracy of leukemia diagnostics by changing the currently adopted subjective and labor-intensive manual gating approach relying on flow cytometry data.
- Experimented multiple ways to improve current pipelines such as parallel generation of UMAPs to feed into machine learning classification to further improve the accuracy.
- Communicated research results through conference presentations, scientific publications and project reports.

Research on Cancer Immunotherapy, Yale University 05/2021 to 09/2021
- Analyzed the potential immunotherapy approach for treating glioblastoma.
- Advancements in literature review skills and cancer immunology knowledge

Research Associate Intern, **Chinese Academy of Sciences/BGI Group Technology** 03/2021 to 07/2021
- Participation in developing and testing pipeline to de novo assemble the stLFR reads.
- Investigated pipelines that could be used in the spatial omics project for monkey brain.

Accomplishments

- Excellence Award in 2022 Southern California Flow Cytometry Association Summit