YING HIU LI, PH.D.

yinghiu.li18@gmail.com yingli.dev linkedin.com/in/hiuyingli/

Ph.D. in Entomology with 7+ years experience in data pipelines and analysis. Proven scientific track record with 6 peerreviewed publications; experienced in leading teams and collaborative work. Creative, results-driven, productive.

TECHNICAL SKILLS

Data infrastructure

- Airflow (Python)
- SQLAlchemy ORM
- Relational databases
- Package management (pip)

Cloud computing

- Google Cloud Platform (GCP) Looker, Tableau
- AWS (EC2, S3, cli)
- Kubernetes

Analysis

- Matplotlib, Pandas, NumPy JIRA
- Jupyter Notebook

Collaborative space

- Git/Github/Gitlab
- Docusaurus (React)
- Screwdriver CI/CD

EXPERIENCE

Data Engineer

Calico Life Sciences, South San Francisco, CA (2021 - Present)

 Designed and implemented automated workflows of biological data using Airflow and Kubernetes on Google Cloud Platform (GCP); collaboration alongside scientific researchers to analyze large datasets

Data Engineer

SymphonyRM, Palo Alto, CA (2019 - 2021)

- Scrum master in a Kanban-style Agile environment (JIRA) and documentation on Confluence
- Architected and deployed automated batch ETL processing of 100+ unique data sources on AWS using Airflow, increasing performance time by 12% and resulting in est. \$200K AMR
- Implemented file tracking system to track and monitor 100+ flat files across many servers (SFTP, S3) to increase visibility and standardize file ingestion, which streamlined batch processing and reduced technical debt

Discovery Oncology Researcher, Intern

Genentech, Inc., South San Francisco, CA (Jun - Oct 2018)

- Led research on examining the role of a DNA helicase contributing to DNA mismatch repair defective cancers
- · Optimized protocol using automated high-throughput screening to image and score DNA damage in cancer cells

Graduate Student Researcher | Ethnic Studies TA

UC Davis, Davis, CA (2014 - 2018)

- Led, developed, and executed research on understanding how nutrient-dependent signaling can regulate the circadian clock; resulted in first-author publication in PLoS Genetics
- Built in-house Python programs to automate research analysis pipeline and created metrics for DNA analysis
- Secured over \$8000 research funding; presented 20-minute talk at a scientific conference with over 6000 attendees

Staff Research Associate | Junior Research Specialist

UC Davis, Davis, CA (2010 - 2014)

SELECTED PUBLICATIONS

Li, Y.H., Liu, X., Zheng, H., Vanselow, J.T., Schlosser, A. Chiu, J.C. 2019. O-GlcNAcylation of PERIOD regulates its interaction with CLOCK and timing of circadian transcriptional repression. PLoS Genetics. https://doi.org/10.1371/journal.pgen.1007953

Liu, X., ...Li, Y.H, et al. 2021. Hexosamine biosynthetic pathway and O-GlcNAc-processing enzymes regulate daily rhythms in protein O-GlcNAcylation. Nature Communications. https://www.nature.com/articles/s41467-021-24301-7

EDUCATION

Data Analytics & Visualization Bootcamp Certification - UC Berkeley Extension Ph.D. in Entomology, Designated emphasis in Biotechnology - UC Davis B.S. in Biotechnology, Emphasis in Fermentation/Microbiology - UC Davis

HOBBIES

Freelance web design Snowboarding Photography