YING HIU LI, PH.D.

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Ph.D. in Entomology with 7+ years experience in data pipelines and analysis. Proven scientific track record with 5 peer-reviewed publications; experienced in leading teams and collaborative work. Creative, results-driven, productive.

TECHNICAL SKILLS

Data ETL
- Python
- SQLAlchemy ORM
- Airflow, Docker
- SQL, Postgres

Cloud technologies (AWS)
- EC2
- Redshift and S3
- RDS
- CLI

Analysis
- Looker
- Matplotlib
- Tableau
- JS (plotly), HTML/CSS

Collaborative space
- Git
- JIRA
- CI/CD

EXPERIENCE

Data Engineer
SymphonyRM (2019 - Present)

- Pioneered automated batch ETL processing of 100+ healthcare data feeds (EMR, payer files) for >10 clients using Airflow and Docker, increasing performance time by 12% and resulting in est. $200K AMR
- Implemented file tracking system to track and monitor 100+ flat files across multiple servers (SFTP, S3) to increase visibility and standardize file ingestion, which streamlined batch processing and reduced technical debt
- Organize, load, and maintain large data feeds (>5 mil rows/feed) in Redshift; manage backup storage in S3
- Work directly with Client Success Group to address client-specific data requests via Kanban (Agile) method in JIRA
- Collaborate alongside product managers, software engineers, and data scientists to improve data ingestion flow

Discovery Oncology Researcher, Intern
Genentech, Inc. (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 (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 (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

Li, Y.H., Chiu, J.C. 2016. The molecular basis for light entrainment of insect clocks. *International Congress of Entomology*. DOI: 10.1603/ICE.2016.94377

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