

YING HIU LI, PH.D.

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yingli.dev

Ph.D. in Entomology with specialization in genetics research and data analytics. Proven scientific track record with 5 peer-reviewed publications; experienced in leading teams and collaborative work. Creative, results-driven, productive.

TECHNICAL SKILLS

Data clean/loading

- Airflow
- SQLAlchemy/Pandas
- SQL, No-SQL

Data Analysis

- Looker (LookML)
- Matplotlib/Plotly
- Tableau

Development tools

- Version Control (Git)
- Docker
- Unit testing (pytest)

Task management

- Scrum master/agile practices
- Confluence documentation
- JIRA ticketing system

EXPERIENCE

Data Engineer - SymphonyRM

Palo Alto CA (Aug 2019 - Present)

- Build, test, and deploy automated ETL processing of healthcare data feeds (EMR, payer files) via Airflow, Docker, SQL
- Improve data infrastructure tooling through bug fixes, unit testing, and deployment
- Scrum master / agile task management for tier2 technical support using JIRA, documentation via Confluence

Freelance Web Designer (Clients: QTViet Cafe, SunKissed Productions)

Oakland, CA (Sept 2018 - Present)

- Self-directed the design of company website from concept to launch; identified and resolved needs of beginner users
- User subscription rate and site traffic increased by 2X with Google Analytics; QTVC website featured in coFED coop

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 sequence 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)

- Initiated and executed time-series analysis of proteins to visualize and validate protein function in animals
- Trained and mentored new lab members, including postdocs, undergrads, and graduate students

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

Lam, V.H. † and Li, Y.H.†, Murphy, K.A., Diehl, J.S., Kwok, R.S., Chiu, J.C. 2018. CK1alpha collaborates with DOUBLETIME to regulate PERIOD function in the Drosophila circadian clock. *Journal of Neuroscience*. DOI: 0.1523/JNEUROSCI.0871-18.2018.

†These authors contributed equally.

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

Snowboarding
Photography
Blogging
Web Design