YING HIU LI, PH.D.

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

TECHNICAL SKILLS

Data exploration
- Pandas/numpy
- Matplotlib
- Visual Basic (Excel)

Statistical tools
- Python/Scipy
- MATLAB, R
- GraphPad Prism

Web development
- HTML/CSS, Bootstrap
- Django/Flask
- REST API, D3.js

Technologies
- Databases (SQL, No-SQL)
- Version Control (Git), bash
- Web scraping (BeautifulSoup)

EXPERIENCE

Data Analytics & Visualization, Student - UC Berkeley Extension   **Berkeley CA (Feb 2019 - Present)**

- Built Python program that retrieves NCBI's article information to automate citations and improve research workflow
- Designed ETL to determine the popularity of movies based on Youtube content, which can predict publicity and viewership

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
- QTVC website featured in coFED coop; collaborative work alongside community leaders, software engineers, designers

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 workflow and created metrics for DNA sequence analysis
- Secured over $8000 research funding; presented 20-minute talk at a scientific conference with over 6000 attendees
- Achieved high student evaluation score as a TA for four consecutive years

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

Ph.D. in Entomology, Designated emphasis in Biotechnology - University of California, Davis
Related courses: Data analysis with R, Computing for Biologists (Unix Shell and coding in Python)

B.S. in Biotechnology, Emphasis in Fermentation/Microbiology - University of California, Davis
Cell culture intern at Department of Neurology (6 months); Sutter Memorial Hospital volunteer (8 months)

HOBBIES

Snowboarding
Photography
Blogging