

# Fangzhou Li

✉ fzli at ucdavis dot edu |  GitHub |  LinkedIn |  Personal Website

## EDUCATION

---

- Ph.D. Candidate in Computer Science**, *University of California, Davis* 2020-Now  
*Advisor: Prof. Ilias Tagkopoulos* (Expected 06/2026)  
*Research Areas: Machine Learning, Natural Language Processing, Knowledge Graph Construction, and Nutrition*
- M.S. in Computer Science**, *University of California, Davis* 2020-2023
- B.S. in Computer Science and Applied Mathematics**, *University of California, Davis* 2015-2019

## UPCOMING PUBLICATIONS

---

- Li, F., Barboza, M., Weng, C., Ehlers-Cheang, et al. (2024). Elucidating the Molecular Basis of Protein Digestion through Integrated Food Proteomics and Targeted Human Serum Metabolomics. Under review at *Nature Food*.
- Li, F., Youn, J., Millsop, C., & Tagkopoulos, I. (2024). Predicting Clinical Trial Success for *Clostridium difficile* Infections Based on Preclinical Data. Under review at *The AAPS Journal*.
- Li, F., Youn, J., Simmons, G., Kim, S., & Tagkopoulos, I. (2024). FoodAtlas: Automated Knowledge Extraction of Food and Chemicals from Literature. Under review at *Computers in Biology and Medicine*.
- Li, F., Yoo, A., Youn, J., Guan, J., Guyer, A., Hostinar, C., & Tagkopoulos, I. (2024). Prediction of Adolescent Depression from Demographic, Clinical, and Survey Data from ALSPAC Using Machine Learning. Under review at *Scientific Reports*.

## PUBLICATIONS & BOOK CHAPTERS

---

- About, O., Liu, Y., Dahabiyeh, L., Abuaisheh, A., Li, F., Aboubechara, J., Riess, J., Bloch, O., Hodeify, R., Tagkopoulos, I., & Fiehn, O. (2023). Profile Characterization of Biogenic Amines in Glioblastoma Patients Undergoing Standard-of-Care Treatment. *Biomedicines*, 11(8), 2261.
- Li, F., Youn, J., & Tagkopoulos, I. (2023). Semi-automated Construction of Food Composition Knowledge Base. *The 2nd AAAI Workshop on AI for Agriculture and Food Systems*.
- Risner, D., Li, F., Fell, J., Pace, S., Siegel, J., Tagkopoulos, I., & Spang, E. (2020). Preliminary Techno-economic Assessment of Animal Cell-Based Meat. *Foods*, 10(1), 3.
- Li, F. (2021). Detecting Concepts. In C. Molnar (Ed.), *Interpretable Machine Learning - A Guide for Making Black Box Models Explainable* (ch. 10.3.). <https://christophm.github.io/interpretable-ml-book/detecting-concepts.html>

## ORAL PRESENTATIONS

---

- Machine Learning on Glioblastoma Metabolism.** Lightning talk at *The 1st Genome Center Research Retreat*, Davis, CA, April 2024.
- Semi-automated Construction of Food Composition Knowledge Base.** Lightning talk at *The 2nd AAAI Workshop on AI for Agriculture and Food Systems*, Washington, D.C., February 2023.

## POSTERS & ABSTRACTS

---

- Li, F., Youn, J., Simmons, G., Kim S., & Tagkopoulos, I. (2024). FoodAtlas: Automated Knowledge Extraction of Food and Chemicals Through Multimodal Deep Learning. Poster presented at *The 1st Genome Center Research Retreat*.

Weng, C., [et al., including **Li, F.**]. (2024). Combining Proteomics and Metabolomics to Assess Food Protein Digestibility. Poster presented at *The 72nd ASMS Conference on Mass Spectrometry and Allied Topics*.

## WORK EXPERIENCE

---

**AI Institute of Next Generation Food Systems, University of California, Davis** Davis, CA  
Graduate Student Researcher 2020-Now

- Leading multiple projects involving machine learning applications in food, chemical, and health data.
- Developed the model selection and analysis pipeline for machine learning projects. Maintaining and improving the functionality of the pipeline.
- Administering the lab website to keep publications, people, projects, and news current.

**Department of Computer Science, University of California, Davis** Davis, CA  
Teaching Assistant 2021-2022

- Led discussions, hosted office hours, and graded assignments for 100+ undergraduates in ECS170 Intro to AI.
- Gave an introductory lecture for deep learning for ECS170 in Spring 2022.

**Genome Center, University of California, Davis** Davis, CA  
Junior Specialist 2019-2020

- Engineered data retrieval and transformation pipeline for a multi-omics compendium project.
- Performed sensitivity analysis for a techno-economic model for animal-cell-based meat.

## PROFESSIONAL SERVICE

---

- Peer reviewer of journals:
  - Nature Communication
  - AStA Advances in Statistical Analysis
- Peer reviewer of workshops:
  - 2nd AAAI Workshop on AI for Agriculture and Food Systems
- Outreach activities:
  - 2024 UC Davis Research Expo. Demoad the FoodAtlas website to the public.

## HONORS AND AWARDS

---

GGCS PhD Fellowship Award (**\$21,949**), University of California, Davis, Davis, CA 2024

Travel Support Award (**\$1,000**), 1st IEEE Conference of Secure and Trustworthy ML, Raleigh, NC. 2022

Graduate Student Fellowship (**\$120,457**), University of California, Davis, Davis, CA. 2020-2022

Luther & Maria Davis Scholarship (**\$2,000**), University of California, Davis, Davis, CA. 2016-2017