Cameron Chen

cameron.ph.chen@gmail.com | cameronphchen.github.io

Cameron is a tech lead manager and staff software engineer at Google Research and Google Health with a strong passion for research innovation and delivering materialized impact. Cameron is an experienced leader in building cross-functional teams to deliver results ranging from initial proofs-of-concept to productionization. His primary research interests lie at the intersection of machine learning, medicine, and science. His research has been published in leading scientific, clinical, and machine learning venues, including Nature, JAMA, and NeurIPS, and covered by media outlets such as the New York Times, Forbes, and Engadget. Before Google, Cameron worked in ML for algorithmic high-frequency trading, energy, demand forecasting, and neuroscience. He received his PhD in Electrical Engineering and Neuroscience from Princeton University and his BS in Electrical Engineering from National Taiwan University. Cameron was also a recipient of the Google PhD Fellowship.

Experiences

Tech Lead Manager, Staff Software Engineer, Google Research & Google Health — Palo Alto, CA

2017-

- 2020- Tech Lead Manager, Staff Software Engineer
- 2019-2020 Tech Lead, Senior Software Engineer
- 2017-2019 Software Engineer
- We develop state-of-the-art healthcare AI systems and productionize the systems with an aim to achieve a positive real-world impact.

Quantitative Research Intern, Vatic Labs — New York, NY

2016

- Algorithmic high-frequency trading

Machine Learning Intern, Palantir — Palo Alto, CA

2015

- Energy usage pattern analysis

Machine Learning Scientist Intern, Amazon — Seattle, WA

2014

- Demand forecasting

Intern, McKinsey & Company — Taipei, Taiwan

2010

- Tech product design analysis

Education

PhD, Princeton University — Princeton, NJ

2012-2017

- Machine Learning and Computational Neuroscience

BS, National Taiwan University — Taipei, Taiwan

2007-2011

- Electrical Engineering

Selected Publications

For a full publication list, see https://scholar.google.com/citations?hl=en&user=OrhZiAIAAAAJ

1. **Chen***, Liu*, and Peng, How to develop machine learning models for healthcare. Nature Materials, 2019
2. Liu*, **Chen***, Krause, and Peng, How to read articles that use machine learning: users' guides to the medical literature. JAMA, 2019.
3. Gamble, Jaroensri, ..., and **Chen**, Determining breast cancer biomarker status and associated morphological features using deep learning. Nature Communications Medicine, 2021.
4. Lai, Kingslake, Wearing, **Chen** et al. Vulnerability of Antarctica's ice shelves to meltwater-driven fracture. Nature, 2020

Selected Awards & Honors

2016

- Google PhD Fellowship

2015

- NeurIPS Oral Presentation (1 of 15 papers accepted for oral presentation)