Po-Hsuan Cameron Chen

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Experiences

2017-current — Tech Lead Manager, Staff Software Engineer, Google Research & Google Health — Palo Alto, CA
- Developed ML models in healthcare for pathology, oncology, radiology, dermatology solving problems across novel biomarker discovery, outcomes prediction, diagnostics, health equity, interpretability, etc.
- Published 30+ research publications in leading scientific and clinical journals, including Nature, Nature Medicine, JAMA, JAMA Oncology, Lancet Digital Health, etc
- Built and lead cross-functional teams to deliver results from initial proofs-of-concept to productionization
- Engaged, signed, and delivered several external partnership programs in both revenue generation and research collaboration settings
- Experienced in navigating ambiguity with complex stakeholder setups

2016 — Quantitative Research Intern, Vatic Labs — New York, NY
- Algorithmic high-frequency trading

2015 — Machine Learning Intern, Palantir — Palo Alto, CA
- Energy usage pattern analysis

2014 — Machine Learning Scientist Intern, Amazon — Seattle, WA
- Demand forecasting

2010 — Intern, McKinsey & Company — Taipei, Taiwan
- Tech product design analysis

Education

2012-2017 — PhD, Princeton University — Princeton, NJ
- Machine Learning and Computational Neuroscience

2007-2011 — BS, National Taiwan University — Taipei, Taiwan
- Electrical Engineering

Selected Publications

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

1. Jaroensri, Wulczyn, ..., and **Chen**. Deep learning models for histologic grading of breast cancer and association with disease prognosis. NPJ Breast Cancer, 2022
2. Bulten*, Kartasalo*, **Chen***, et al. Artificial intelligence for diagnosis and Gleason grading of prostate cancer: the PANDA challenge. Nature Medicine, 2022
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
5. **Chen***, Liu*, and Peng, How to develop machine learning models for healthcare. Nature Materials, 2019
6. Liu*, **Chen***, Krause, and Peng, How to read articles that use machine learning: users' guides to the medical literature. JAMA, 2019.

Selected Awards & Honors

2016
- Google PhD Fellowship (1 of 25 PhD fellows in North America)

2015
- NeurIPS Oral Presentation (1 of 15 papers accepted for oral presentation)