Po-han Li

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INTERESTS

Machine Learning Researcher with expertise in multimodal foundation models, focusing on model adaptation, inference-time optimization, and robust evaluation pipeline design. Experience includes tackling missing or noisy modalities and integrating heterogeneous data sources to enhance real-world deployments. Proven ability in iterative model improvement and scalable ML system development across research and industry settings.

EDUCATION

University of Texas at Austin   Aug. 2023 – Present (Expected Summer 2026)
Ph.D. Candidate in Electrical and Computer Engineering   *Texas, U.S.A.*
- Decision, Information, and Communications Engineering (DICE) track
- Co-advised by Prof. Sandeep Chinchali and Prof. Ufuk Topcu
- GPA: 3.93/4.00

University of Texas at Austin   Aug. 2021 – May 2023
M.S. in Electrical and Computer Engineering   *Texas, U.S.A.*
- Decision, Information, and Communications Engineering (DICE) track

National Taiwan University   Sep. 2016 – Jul. 2020
B.S. in Electrical Engineering   *Taipei, Taiwan*
- Research Advisor: Prof. Wanjiun Liao (廖婉君)
- GPA: overall: 4.26/4.30 (3.99/4.0), last 60: 4.29/4.30. Ranking: 4/177
- Honors: Dean's List (2016 Fall, 2017 Spring, and 2018 Fall)
- College Student Research Scholarship from the Ministry of Science and Technology (2017-2019)

PUBLICATIONS

For a complete list of my publications, please check my [Google Scholar](#).
First-Author Publications:

1. **P. Li***, S. Chen*, S. Chichali, and U. Topcu. VIBE: Video-to-text information bottleneck evaluation for TL;DR. *Advances in Neural Information Processing Systems (**NeurIPS**)*, 2025

2. **P. Li**, Y. Yang, M. Omama, S. Chinchali, and U. Topcu. Any2Any: Incomplete multimodal retrieval with conformal prediction. *Under review*, 2025

3. **P. Li**, S. Chinchali, and U. Topcu. CSA: Data-efficient mapping of unimodal features to multimodal features. *International Conference on Learning Representations (**ICLR**)*, 2025

4. **P. Li**, S. K. Ankireddy, R. Zhao, H. N. Mahjoub, E. Moradi-Pari, U. Topcu, S. Chinchali, and H. Kim. Task-aware distributed source coding under dynamic bandwidth. *Advances in Neural Information Processing Systems (**NeurIPS**)*, 2023

Other Publications:

1. M. Omama, **P. Li**, and S. Chinchali. Exploiting distribution constraints for scalable and efficient image retrieval. *International Conference on Learning Representations (**ICLR**)*, 2025

2. A. Narayanan, P. Kasibhatla, M. Choi, **P. Li**, R. Zhao, and S. Chinchali. PEERNet: An end-to-end profiling tool for real-time networked robotic systems. In *IEEE/RSJ International Conference on Intelligent Robots and Systems (**IROS**)*, 2024

3. O. Akcin, **P. Li**, S. Agarwal, and S. Chinchali. Decentralized data collection for robotic fleet learning: A game-theoretic approach. In *Conference on Robot Learning (**CoRL**)*, 2022

4. Y. Geng, D. Zhang, **P. Li**, O. Akcin, A. Tang, and S. Chinchali. Decentralized sharing and valuation of fleet robotic data. In *Conference on Robot Learning (**CoRL**)*, 2021

Work Experience

Meta Platforms, Inc.
Software Engineer Intern @ Monetization GenAI

May 2025 – Aug. 2025
California, U.S.A

- Utilized automation tools to extract key information from external websites, supporting ML-driven advertisement generation
- Aligned website source code with visual snapshot analysis, contributing to the design of evaluation pipelines for quality ad generation
- Engineered robust evaluation metrics to assess the effectiveness of unsupervised generated advertisements

Meta Platforms, Inc.
Software Engineer Intern @ Infra+Ranking & Foundational AI

May 2024 – Aug. 2024
California, U.S.A

- Calibrated Meta's multimodal foundation AI model for ads ranking
- Analyzed model performance and tracking of iterative training, supporting the development of robust evaluation benchmarks
- Developed highly scalable classifiers and tools leveraging Python and machine learning techniques, incorporating data preprocessing and exploratory analysis
- Adapted standard machine learning methods for distributed clusters, illustrating proficiency in model iteration and integrating heterogeneous data sources

China Network Systems Co., Ltd.
Machine Learning and Data Scientist Intern

Oct. 2019 – Mar. 2021
Taipei, Taiwan

- Analyzed data patterns and built prediction models for **churn rate (unsubscribe) prediction**
- Used Raspberry Pi distributed in the core net and network terminals to collect network-quality data
- Created databases and interactive reports to monitor **over 1M set-top boxes** in real-time

Internet Research Lab
Research Assistant @ National Taiwan University

Aug. 2019 – Jun. 2020
Taipei, Taiwan

- Participated in *5G mobile edge computing technology research and platform construction* project supported by the Ministry Of Science And Technology
- Enhanced the quality of service (QoS) of multi-view 3D videos by **reinforcement learning**

Academic Service

Reviewer
Aug. 2021 - Present
- Reviewer of ICML, NeurIPS, ICLR, CVPR, MLSys, AAAI, AISTATS, IEEE Systems Journal, IROS, and ICRA.

Extracurricular Activities

UT Girl Day
Volunteer

Feb. 2023 and Feb. 2024
- Taught Python basics using AutoAuto cars; reached 200+ visitors of all ages. **link**

REACT REU
Mentor

Aug. 2023
- Instructed undergraduate students to improve real-time computer vision models, excelling in image classification and object detection using Python.

Code2College
Mentor

Jul. 2022 – Present
- Mentored underrepresented high school graduates to prepare for software engineering jobs or college interviews.

Student Council of National Taiwan University
Member of Parliament

Jan. 2019 – May 2019
- Voiced concern about potential cyber security issues of the electrical voting system.