

# Po-han Li

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## INTERESTS

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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

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### 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

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For a complete list of my publications, please check my [Google Scholar](#).

### First-Author Publications:

1. **P. Li\***, S. Chen\*, S. Chinchali, and U. Topcu. VIBE: Video-to-text information bottleneck evaluation for TL;DR. *Under review*, 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)*, 2024
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

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### 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

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### Reviewer

Aug. 2021 - Present

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

## EXTRACURRICULAR ACTIVITIES

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### 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.