

Po-han Li

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EDUCATION

The University of Texas at Austin

Aug. 2021 – Present

MS/Ph.D. in Electrical and Computer Engineering

Texas, U.S.A.

- Research Interest: Decentralized Data Sharing, Application of Differential Privacy, Task-aware Data Transmission, and Robust Optimization (see more details on my [Personal Website](#))
- Co-advised by Prof. [Sandeep Chinchali](#) and Prof. [Ufuk Topcu](#)
- GPA: 3.93/4.00

National Taiwan University

Sep. 2016 – Jul. 2020

B.S. in Electrical Engineering

Taipei, Taiwan

- 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 Ministry of Science and Technology (2017-2019)

WORK EXPERIENCE

Research Fellow

Aug. 2020 – Jul. 2021

Center for IoT Innovation at National Taiwan University of Science and Technology

Taipei, Taiwan

Python, Tableau, Netlogo

- Built a simulation platform for **automated guided vehicles (AGV)** in large-scale logistics warehousing centers
- Optimized AGV routing policy to achieve a **20% throughput improvement** of inventory picking

Machine Learning and Data Scientist Intern

Oct. 2019 – Mar. 2021

China Network Systems Co., Ltd.

Taipei, Taiwan

Python, Pytorch, pandas, SQL, Tableau, Shell script

- Analyzed data pattern and build 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

Research Assistant

Aug. 2019 – Jun. 2020

Prof. Wanjiun Liao's Internet Research Lab, National Taiwan University

Taipei, Taiwan

Python, Pytorch

- Enhanced the quality of service (QoS) of multi-view 3D videos by **reinforcement learning**

PUBLICATIONS

1. **Po-han Li**, Sandeep Chinchali, and Ufuk Topcu. Differentially private timeseries forecasts for networked control. *American Control Conference*, 2023 [link](#)
2. **Po-han Li**, Ufuk Topcu, and Sandeep Chinchali. Adversarial examples for model-based control: A sensitivity analysis. *58th Annual Allerton Conference on Communication, Control, and Computing*, 2022 [link](#)
3. Oguzhan Akcin, **Po-han Li**, Shubhankar Agarwal, and Sandeep Chinchali. Data games: A game-theoretic approach to swarm robotic data collection. In *Conference on Robot Learning*, 2022 [link](#)
4. Yuchong Geng, Dongyue Zhang, **Po-han Li**, Oguzhan Akcin, Ao Tang, and Sandeep Chinchali. Decentralized sharing and valuation of fleet robotic data. In *Conference on Robot Learning*, 2021 [link](#)

TECHNICAL SKILLS

Programming Languages: Python, C++, SQL, Shell Script, Julia

Libraries&Toolkits: PyTorch, Keras, pandas, CVXPY, NumPy, Git, L^AT_EX

Data Visualization Tools: Tableau, Power BI