

# Po-han Li

[pohanli@utexas.edu](mailto:pohanli@utexas.edu) | [Personal Website](#) | [LinkedIn](#) | [Google Scholar](#)

## EDUCATION

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### University of Texas at Austin

Aug. 2021 – Present

*MS/Ph.D. in Electrical and Computer Engineering*

*Texas, U.S.A.*

- Research Interest: cloud robotic communication in decentralized networks, inference of large foundation models, differential privacy, and data compression in distributed networks. (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 the Ministry of Science and Technology (2017-2019)

## SELECTED PUBLICATIONS

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

1. **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 [link](#)
2. **P. Li**, S. Chinchali, and U. Topcu. Differentially private timeseries forecasts for networked control. *American Control Conference (ACC)*, 2023 [link](#)
3. **P. Li**, U. Topcu, and S. Chinchali. Adversarial examples for model-based control: A sensitivity analysis. (*Allerton*), 2022 [link](#)
4. 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 [link](#)
5. 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 [link](#)

## WORK EXPERIENCE

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### Graduate Research Assistant

Aug. 2021 – Present

*Swarm Lab and UT Autonomous Systems Group*

*Texas, U.S.A*

- Foundation model selection and uncertainty estimation.
- Task-aware data transmission in heterogeneous networks.
- Decentralized data sharing in fleet robotic data.

### 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*  
Python, Pytorch

*Taipei, Taiwan*

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

## TECHNICAL SKILLS

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

**Libraries&Toolkits:** PyTorch, Gymnasium, Stable-Baselines3, Keras, CVXPY, Git, L<sup>A</sup>T<sub>E</sub>X

**Data Visualization Tools:** Tableau, Power BI

## TEACHING EXPERIENCE

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**ECE 381V Learning-based Optimal Control:** Teaching assistant

Aug. 2023 – Dec. 2023

## EXTRACURRICULAR ACTIVITIES

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### Code2College

Mentor

July 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.

### Student Association of Department of Electrical Engineering

Coordinator of Curriculum Reform

Sep. 2018 – Jun. 2019

- Collected student feedback on curriculum reform.

### National Taiwan University Musical Club

Event Coordinator

Jan. 2016 – Jun. 2019

- Organized one original and one adapted musical production.