

# Po-han Li

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## EDUCATION

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### The University of Texas at Austin

Aug. 2021 – Present

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

*Texas, U.S.A.*

- Research Interest: Applications of large model inference, differential privacy, and data compression in networks using game theory, optimization, and neural 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 Ministry of Science and Technology (2017-2019)

## WORK EXPERIENCE

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### 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

## 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. *Under Review*, 2023 [link](#)
2. **P. Li**, S. Chinchali, and U. Topcu. Differentially private timeseries forecasts for networked control. *American Control Conference*, 2023 [link](#)
3. **P. Li**, U. Topcu, and S. Chinchali. Adversarial examples for model-based control: A sensitivity analysis. *58th Annual Allerton Conference on Communication, Control, and Computing*, 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*, 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*, 2021 [link](#)

## TECHNICAL SKILLS

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

**Libraries&Toolkits:** PyTorch, Keras, pandas, CVXPY, NumPy, Git, L<sup>A</sup>T<sub>E</sub>X

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