

# 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.*

- Decision, Information, and Communications Engineering (DICE) track

### 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\*3

## EXPERIENCE

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### Graduate Research Assistant

Aug. 2021 – Present

*Swarm Lab and Autonomous Systems Group*

*Texas, U.S.A*

- Co-advised by Dr. Sandeep Chinchali and Dr. Ufuk Topcu.
- Research Interest: networked control, decentralized data sharing, and task-aware communication.

### Research Fellow

Aug. 2020 – Jul. 2021

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

*Taipei, Taiwan*

- Achieve a 20% throughput improvement in KIVA project, a simulation platform for automated guided vehicles (AGV) in a large-scale logistics warehousing center.
- Participate in the pandemic disease simulation project, an agent-based simulation platform for disease spreading in different circumstances inspired by COVID-19.

### Machine Learning and Data Scientist Intern

Oct. 2019 – Mar. 2021

*China Network Systems Co., Ltd.*

*Taipei, Taiwan*

- Create a data collecting system of network traffic and an alerting system of abnormal traffic.
- Create data visualization graphics and translated complex datasets into comprehensive visual representations.
- Analyze data pattern and build prediction models for churn rate (unsubscribe) prediction.
- Use white box (raspberry pi) distributed in the core net and network terminals to collect network condition data.

### Research Assistant

Aug. 2019 – Jun. 2020

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

*Taipei, Taiwan*

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

## PUBLICATIONS

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My research interests include networked control, decentralized data sharing, and task-aware communication. Please check out my personal website for more detail.

1. Po han Li, Sandeep P. Chinchali, and Ufuk Topcu. Differentially private timeseries forecasts for networked control. *Submission to American Control Conference 2023*
2. Po-han Li, Ufuk Topcu, and Sandeep P Chinchali. Adversarial examples for model-based control: A sensitivity analysis. *58th Annual Allerton Conference on Communication, Control, and Computing (accepted)*, 2022
3. Oguzhan Akcin, Po han Li, Shubhankar Agarwal, and Sandeep P. Chinchali. Data games: A game-theoretic approach to swarm robotic data collection. In *6th Annual Conference on Robot Learning*, 2022
4. Yuchong Geng, Dongyue Zhang, Po-han Li, Oguzhan Akcin, Ao Tang, and Sandeep P Chinchali. Decentralized sharing and valuation of fleet robotic data. In *6th Annual Conference on Robot Learning*, 2021

## TECHNICAL SKILLS

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**Languages:** Chinese, English, Japanese

**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