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.*

- 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

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 Interenst: perturbation in control and optimization, and decentralized data sharing.

Research Fellow Aug. 2020 – Jul. 2021
Center for IoT Innovation at National Taiwan University of Science and Technology *Taipei, Taiwan*

- Achieved 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 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*

- Established a Database collecting network traffic and QoS data for an automatic alerting system in core network traffic.
- Created data visualization graphics, and translated complex data sets into comprehensive visual representations.
- Collaborated with senior personnel to define and meet data modeling standards for Churn Rate Prediction project.
- Used white box (raspberry pi) distributed in the core net and network terminal to collect network condition data.

Research Assistant Aug. 2019 – Jun. 2020
Prof. Wanjiun Liao's Internet Research Lab, NTU *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- Enhanced the quality of service of Multi-view 3D Videos by Reinforcement Learning in unpublished work, *Intelligent Caching for Multi-view 3D Videos in 5G Networks.*

Publications

1. Po han Li, Sandeep P. Chinchali, and Ufuk Topcu. Differentially private timeseries forecasts for networked control, 2022

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

Languages: Chinese, English, Japanese
Programming Languages: Python, C/C++, SQL, Shell Scripting
Libraries&Toolkits: PyTorch, Keras, pandas, NumPy, Matplotlib, Git, Linux, LaTeX
Data Visualization Tools: Tableau, Power BI