Jung Yeon Park

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Education

Northeastern University **Boston, MA**
Ph.D. in Computer Science *2019–present*
Advisor: Lawson Wong, Robin Walters

KAIST **Daejeon, South Korea**
M.S. in Industrial & Systems Engineering *2016*
(Advisor: James R. Morrison)

KAIST **Daejeon, South Korea**
B.S. in Industrial & Systems Engineering *2014*

Research/Work Experience

Northeastern University, Khoury College of Computer Sciences **Boston, MA**
Research Assistant *2019–present*
Research areas: Reinforcement learning, Equivariant neural networks, Imitation learning

Samsung Electronics, DS Division **Hwaseong, South Korea**
Software Engineer *2016–2019*
Developed APIs and client libraries for data extraction. Scaled up big data analytics platform to become largest in semiconductor division. Implemented new ETL pipeline.

KAIST, Department of Industrial & Systems Engineering **Daejeon, South Korea**
Graduate Research Assistant *2016–2014*
Thesis: Evaluation of Equipment Models of Clustered Photolithography Tools for Semiconductor Fab Simulation

KAIST, Department of Industrial & Systems Engineering **Daejeon, South Korea**
Undergraduate Research Assistant *2013*
Thesis: Financial Modeling and Simulation of the Case of Diamond Fund

Publications

* Equal Contribution

Publications

Jung Yeon Park and Lawson L.S. Wong. Robust imitation learning of a few demonstrations with a backwards model. In *Advances in Neural Information Processing Systems*, 2022.

Jung Yeon Park*, Ondrej Biza*, Linfeng Zhao, Jan Willem van de Meent, and Robin Walters. Learning symmetric representations for equivariant world model. In *International Conference on Machine Learning*, 2022.

Jung Yeon Park*, Niklas Smedemark-Margulies*, Max Daniels, Rose Yu, Jan-Willem van de Meent,

and Paul Hand. Generator surgery for compressed sensing. In *NeurIPS 2020 Workshop on Deep Learning and Inverse Problems*, 2020.

Jung Yeon Park, Kenneth Carr, Stephan Zheng, Yisong Yue, and Rose Yu. Multiresolution tensor learning for efficient and interpretable spatial analysis. In *International Conference on Machine Learning*, pages 7499–7509. PMLR, 2020.

Hyeong-Ook Kim, Se-Hyeon Park, **Jung Yeon Park**, and James R. Morrison. On the consequences of un-modeled dynamics to the optimality of schedules in clustered photolithography tools. In *2019 Winter Simulation Conference (WSC)*, pages 2224–2235. IEEE, 2019.

Jung Yeon Park, Kyungsu Park, and James R Morrison. Models of clustered photolithography tools for fab-level simulation: From affine to flow line. *IEEE Transactions on Semiconductor Manufacturing*, 30(4):547–558, 2017.

Jung Yeon Park, Kyungsu Park, and James R Morrison. Exit recursion models of clustered photolithography tools for fab level simulation. *IEEE Transactions on Semiconductor Manufacturing*, 30(1):39–51, 2016.

Patents

James R. Morrison, **Jung Yeon Park**, Kyungsu Park, and Sang Yoon Bae. An exit recursion model of an apparatus of clustered photolithography for achieving fab(wafer fabrication facilities)-level simulation, and a method for simulating using it. South Korea Patent Office, 1018856190000, July 2018.

James R. Morrison, **Jung Yeon Park**, Kyungsu Park, and Sang Yoon Bae. A model for an apparatus of clustered photolithography for achieving fab(wafer fabrication facilities)-level simulation, and a method for simulating using it. South Korea Patent Office, 1018668570000, June 2018.

Awards and Honors

- **Achievement Prize**, Samsung Electronics 2017
- **Government Scholarship** with stipend for M.S. 2014-2016
- **Excellence Prize** (tied for 1st), KAIST IE Frontier, for undergraduate thesis 2013

Teaching Assistantship

CS5335 Robotic Science and Systems: Northeastern University Spring 2022
CS5180 Reinforcement Learning: Northeastern University Fall 2021
CS4100 Artificial Intelligence: Northeastern University Spring 2021
CS7180 Special Topics in Artificial Intelligence: Northeastern University Fall 2020