

Jung Yeon Park

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Education

Northeastern University <i>Ph.D. in Computer Science</i> (Advisor: Lawson Wong, Robin Walters)	Boston, MA 2019–present
Northeastern University <i>M.S. in Computer Science</i>	Boston, MA 2022
KAIST <i>M.S. in Industrial & Systems Engineering</i> (Advisor: James R. Morrison)	Daejeon, South Korea 2016
KAIST <i>B.S. in Industrial & Systems Engineering</i>	Daejeon, South Korea 2014

Research/Work Experience

Northeastern University, Khoury College of Computer Sciences <i>Research Assistant</i> Research areas: Reinforcement learning, Equivariant neural networks, Imitation learning	Boston, MA 2019–present
Samsung Electronics, DS Division <i>Software Engineer</i> Developed APIs and client libraries for data extraction. Scaled up big data analytics platform to become largest in semiconductor division. Implemented new ETL pipeline.	Hwaseong, South Korea 2016–2019
KAIST, Department of Industrial & Systems Engineering <i>Graduate Research Assistant</i> Thesis: Evaluation of Equipment Models of Clustered Photolithography Tools for Semiconductor Fab Simulation	Daejeon, South Korea 2016–2014
KAIST, Department of Industrial & Systems Engineering <i>Undergraduate Research Assistant</i> Thesis: Financial Modeling and Simulation of the Case of Diamond Fund	Daejeon, South Korea 2013

Publications

* Equal Contribution

Publications

Dian Wang, **Jung Yeon Park**, Neel Sortur, Lawson L.S. Wong, Robin Walters, and Robert Platt. The surprising effectiveness of equivariant models in domains with latent symmetry. *Under Review*.

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

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

Service

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

