

# Jung Yeon Park

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## Education

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

## Research/Work Experience

<b>Northeastern University, Khoury College of Computer Sciences</b> <i>Research Assistant</i> Research areas: Reinforcement learning, Equivariant neural networks, Imitation learning	<b>Boston, MA</b> 2019–present
<b>Samsung Electronics, DS Division</b> <i>Software Engineer</i> Developed production APIs and client libraries for big data analysis. Managed and scaled up big data ML platform to become largest in semiconductor division. Implemented new ETL pipeline.	<b>Hwaseong, South Korea</b> 2016–2019
<b>KAIST, Department of Industrial &amp; Systems Engineering</b> <i>Graduate Research Assistant</i> Thesis: Evaluation of Equipment Models of Clustered Photolithography Tools for Semiconductor Fab Simulation	<b>Daejeon, South Korea</b> 2016–2014
<b>KAIST, Department of Industrial &amp; Systems Engineering</b> <i>Undergraduate Research Assistant</i> Thesis: Financial Modeling and Simulation of the Case of Diamond Fund	<b>Daejeon, South Korea</b> 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. In *International Conference on Learning Representations (ICLR)*, 2023. (**notable-top-25%**).

**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 (NeurIPS)*, 2022.

**Jung Yeon Park**<sup>\*</sup>, Ondrej Biza<sup>\*</sup>, Linfeng Zhao, Jan Willem van de Meent, and Robin Walters. Learning symmetric representations for equivariant world model. In *International Conference on Machine Learning (ICML)*, 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 (ICML)*, 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** for full tuition and stipend for M.S. 2014-2016
- **Excellence Prize** (tied for 1st), KAIST IE Frontier, for undergraduate thesis 2013

## Service

### Teaching Assistantship

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

### Reviewer

IEEE RA-L (2022), AISTATS (2023), ICML (2023)