

Jung Yeon Park

Khoury College of Computer Sciences, Northeastern University

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Education

Northeastern University

Ph.D. in Computer Science

Advisor: Lawson Wong

Boston, MA

2019–present

KAIST

M.S. in Industrial & Systems Engineering

(Advisor: James R. Morrison)

Daejeon, South Korea

2016

KAIST

B.S. in Industrial & Systems Engineering

Daejeon, South Korea

2014

Research/Work Experience

Northeastern University, Khoury College of Computer Sciences

Research Assistant

Boston, MA

2019–present

Samsung Electronics, DS Division

Software Engineer

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

Graduate Research Assistant

Thesis: Evaluation of Equipment Models of Clustered Photolithography Tools for Semiconductor Fab Simulation

Daejeon, South Korea

2016–2014

KAIST, Department of Industrial & Systems Engineering

Undergraduate Research Assistant

Thesis: Financial Modeling and Simulation of the Case of Diamond Fund

Daejeon, South Korea

2013

Publications

* Equal Contribution

Publications

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

Teaching Assistantship

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|--|-------------|
| 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 |