

JI-EUN LEE

University City, Philadelphia, PA, United States

+1 267 760 4506 ◊ jvlee@seas.upenn.edu ◊ www.linkedin.com/in/ji-eun-park-lee

EDUCATION

Master of Science in Engineering	Aug 2018 - Expected May 2020
Computer and Information Science, University of Pennsylvania. (GPA: 4.0/4.0)	
Bachelor of Science ◊ Bachelor of Arts	Mar 2013 - Aug 2018
Computer Science and Engineering ◊ Economics, Seoul National University.	
Exchange Student	Jan 2016 - May 2016
University of California Berkeley.	

INTERESTS AND TECHNICAL SKILLS

Interests	Machine Learning, Deep Learning, Data Mining
Advanced	Python (TensorFlow, NumPy, SKLearn), Java, LaTeX
Experienced	MATLAB, NetLogo, Ocaml, Git, Amazon Web Services (AWS), Caffe, Apache REEF
Intermediate	C, C++, R, Stata, Scheme, SQL, HTML

WORK EXPERIENCE AND PROJECTS

Agent Behavior in Personalized Recommendations, University of Pennsylvania Aug 2018 - Dec 2018
Member of team of 2

Modeled multi-agent system with consumer and marketer agents that maximize their utility. Consumers react to the given personalized recommendation from marketers, and marketers change their personalization level based on consumer feedback. Used NetLogo for the main model and additionally R for statistical experiments.

NAVER Corp, Seoul, South Korea Jan 2018 - Mar 2018
Intern, team of 3

Developed and wrote paper on a click model that predicts user click behavior, given search query and corresponding search engine results page. Utilized Generative Adversarial Network to precisely replicate real user behavior, especially incorporating sequential GAN, conditional GAN, and reinforcement learning.

Amazon - Seoul National University Sept 2017 - Dec 2017
Member of team of 3 with mentors

Using the extensive Amazon Bin Image Dataset, tackled two tasks: count (predict the number of items in the image) and classify (predict what item is contained in the image), with recreated established neural networks (VGGNet, AlexNet, etc.) and modified versions. Accomplished 68.57% accuracy on count task, and 41.43% accuracy on classify task. Used Amazon Web Services (AWS) for experiments. Gathered feedback from mentors to improve performance.

Data Mining Lab, Seoul National University Nov 2016 - Aug 2017
Undergraduate Research Intern (Concentration: Deep Learning)

Researched on Deep Learning by writing papers on applying neural network on coupled matrix factorization (first author), and feature learning in signed directed networks (third author). Both were submitted, while SIDE: Feature Learning in Signed Directed Networks was accepted to WWW'18. Developed a time series data based stock price prediction project using deep learning. Modeled a neural network model that makes long term predictions (stock price after one to four quarters) on whether an individual stock price will rise, fall, or stay constant, which achieved up to 70.64% precision.

Software Platform Lab, Seoul National University July 2016 - Aug 2016
Undergraduate Intern

Developed a deep learning framework of Dolphin, a machine learning platform built on top of Apache REEF.