

Haekyu Park

Contact	Data Mining Laboratory, Building 138 #314, Seoul National University 1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea 08826 Email: hpark627@snu.ac.kr Homepage: http://haekyu.com
Research Interests	Data Mining, Graph Data Mining, Machine Learning, Interpretable Machine Learning
Education	B.S., Computer Science and Engineering Mar. 2012 - Aug. 2017 Seoul National University, Seoul, Republic of Korea Graduated with honors (Cum Laude)
Research and Work Experience	Research Intern June 2016 - Present Advisor: Prof. U Kang Data Minig Lab at Seoul National University
Publications	<ol style="list-style-type: none">1. Junghwan Kim, <u>Haekyu Park</u>, Ji-eun Lee, and U Kang, SIDE: Representation Learning in Signed Directed Networks, The Web Conference (Previously known as WWW, World Wide Web Conference) 2018. (under review)2. <u>Haekyu Park</u>, Hyunsik Jeon, Junghwan Kim, Beunguk Ahn, and U Kang, UniWalk: Explainable and Accurate Recommendation for Rating and Network Data, SIAM International Conference on Data Mining (SDM), 2018. (under review)3. <u>Haekyu Park</u>, Jinhong Jung, and U Kang, A Comparative Study of Matrix Factorization and Random Walk with Restart in Recommender Systems, IEEE International Conference on Big Data (BigData), 2017.
Projects	
2017	<ol style="list-style-type: none">1. Recommender system on videos of Oksusu application Present Keywords: Tensorflow, Sequence Embedding, Approx. k-NN SK Telecom, Seoul, Republic of Korea2. A Fast and Cost Efficient Data Compression Algorithm with Shared Virtual Memory in Heterogeneous System Architecture Keywords: OpenCL, GPGPU, SVM, HSA Undergraduate thesis

2016	<ol style="list-style-type: none"> 1. Personalized Recommendation on Credit Card Rewards Keywords: Coupled Matrix Factorization, Time Series Data Hyundai Card, Seoul, Republic of Korea 2. Social Recommender System with Graph and Rating Information Keywords: Matrix Factorization, Network Embedding, Social Network Final project of Probabilistic Graphical Model course
Patents	<ol style="list-style-type: none"> 1. U Kang, Junghwan Kim, and <u>Haekyu Park</u>, Apparatus and Method for Representation Learning in Signed Directed Networks, Korean Patent 10-2017-0130914, 2017. 2. U Kang, <u>Haekyu Park</u>, Junghwan Kim, and Hyunsik Jeon, Explainable and Accurate Recommender Method and System using Social Network Information and Rating Information, Korean Patent 10-2017-0159167, 2017.
Awards and Honors	National Scholarship For Science and Engineering 2015 Merit-based
Graduate coursework	Probabilistic Graphical Models @ Seoul National University Fall 2016
Technical Skills	<p>Programming Languages Advanced: Python, Java, C, C++ Experienced: Matlab, Ocaml, Scheme, HTML</p> <p>Numerical Computing Advanced: Numpy, SciPy, scikit-learn Experienced: Matlab</p> <p>Parallel Computing Experienced: OpenCL</p>
Extracurricular Activities	<ol style="list-style-type: none"> 1. Group study of statistics Sept. 2017 - Present <ul style="list-style-type: none"> - With a book: "All of Statistics: A Concise Course in Statistical Inference", Larry Wasserman. 2. Private tutoring 2012 - Present <ul style="list-style-type: none"> - Programming languages (Python, Java, C, Scheme) for graduate students, undergraduate students, workers in brokerage firms, and a businessman. - Mathematics, Physics, and Chemistry for high school and elementary school students. 3. Tutoring Jan. - Aug. 2015 <ul style="list-style-type: none"> - General science for elementary school students. At Jungdae elementary school, Jamshin elementary school, Songjeon elementary school, and Daemyung elementary school in Seoul, Korea.

