

Haekyu Park

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Education	Ph.D., Computer Science Georgia Institute of Technology, Atlanta, GA Advisor: Dr. Polo Chau	Aug 2018 - Present
	B.S., Computer Science and Engineering Seoul National University, Seoul, Republic of Korea Graduated with honors (Cum Laude)	Mar 2012 - Aug 2017
Work Experience	Graduate Research Assistant Georgia Institute of Technology, Atlanta, GA	Aug 2018 - Present
	Data Science Intern NVIDIA, Austin, TX Mentor: Bartley Richardson, Brad Rees, Joe Eaton The work was integrated into NVIDIA tutorial session at KDD 2019.	May 2019 - Aug 2019
	Undergraduate Research Assistant Seoul National University, Seoul, Republic of Korea	June 2016 - Aug 2017
Publications	Summit: Scaling Deep Learning Interpretability by Visualizing Activation and Attribution Summarizations Fred Hohman, Haekyu Park , Caleb Robinson, Duen Horng Chau IEEE VIS (VAST), 2019.	
	MLsploit: A Cloud-Based Framework for Adversarial Machine Learning Research Nilaksh Das, Siwei Li, Chanil Jeon, Jinho Jung, Shang-Tse Chen, Carter Yagemann, Evan Downing, Haekyu Park , Evan Yang, Li Chen, Michael Kounavis, Ravi Sahita, David Durham, Scott Buck, Duen Horng Chau, Taesoo Kim, Wenke Lee Workshop Presentation, Black Hat Asia - Arsenal, 2019.	
	NeuralDivergence: Exploring and Understanding Neural Networks by Comparing Activation Distributions Haekyu Park , Fred Hohman, Duen Horng Chau Poster, PacificVis, 2019.	
	SIDE: Representation Learning in Signed Directed Networks Junghwan Kim, Haekyu Park , Ji-Eun Lee, and U Kang The Web Conference, 2018.	
	A Comparative Study of Matrix Factorization and Random Walk with Restart in Recommender Systems Haekyu Park , Jinhong Jung, and U Kang IEEE Big Data, 2017.	
Projects	Explore the history of space and interplanetary travel through a visualization of space data Keywords: Information Visualization, Scrollytelling, d3.js https://psy901.github.io/space-mission-project/	2018
	Recommender System for Videos on Oksusu Application Keywords: Deep Learning, Sequence/Word Embedding, Approx. k-NN, Heterogeneous Features SK Telecom, Seoul, Republic of Korea	2017
	A Fast Data Compression with Shared Virtual Memory in Heterogeneous System Architecture Keywords: OpenCL, GPGPU, SVM, HSA Undergraduate thesis	2017

	Personalized Recommendation for Credit Card Rewards Keywords: Coupled Matrix Factorization, Time Series Data Hyundai Card, Seoul, Republic of Korea	2016
Grants and Funding	Amazon AWS Research Grant Co-PIs: Nilaksh Das, Scott Freitas, Duen Horng Chau Funded \$5,000 in AWS cloud credits	2018
Awards and Honors	National Scholarship For Science and Engineering Merit-based	2015
Patents	Apparatus and Method for Representation Learning in Signed Directed Networks U Kang, Junghwan Kim, and Haekyu Park Korean Patent 10-2017-0130914, 2017.	
Skills	Programming Languages Python, JavaScript, HTML, R, Matlab, Java, C, C++, Ocaml, Scheme Machine Learning / Deep Learning / Data Science TensorFlow, Keras, scikit-learn, OpenCV, Numpy, Pandas, SciPy, NetworkX GPU-accelerated Data Science cuGraph, cuDF, cuML, BlazingSQL, OpenCL Data Visualization D3.js, HoloViews, Matplotlib, WebGL, ggplot	
Professional Service	Reviewer KDD 2019	