

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
Research 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
Honors	Amazon AWS Research Grant Co-PIs: Nilaksh Das, Scott Freitas, Duen Horng Chau Funded \$5,000 in AWS cloud credits	2018
	National Scholarship For Science and Engineering Merit-based	2015
Publications	Summit: Scaling Deep Learning Interpretability by Visualizing Activation and Attribution Summarizations Fred Hohman, <u>Haekyu Park</u> , 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, <u>Haekyu Park</u> , 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 <u>Haekyu Park</u> , Fred Hohman, Duen Horng Chau Poster, PacificVis, 2019.	
	SIDE: Representation Learning in Signed Directed Networks Junghwan Kim, <u>Haekyu Park</u> , Ji-Eun Lee, and U Kang The Web Conference, 2018.	
	A Comparative Study of Matrix Factorization and Random Walk with Restart in Recommender Systems <u>Haekyu Park</u> , Jinhong Jung, and U Kang IEEE Big Data, 2017.	

Talks	NeuralDivergence: Exploring and Understanding Neural Networks by Comparing Activation Distributions Apr 2019, Poster Presentation, PacificVis	
	A Comparative Study of Matrix Factorization and Random Walk with Restart in Recommender Systems Dec 2017, Oral Presentation, IEEE Big Data	
Teaching	Graduate Teaching Assistant Georgia Institute of Technology, Atlanta, GA Data and Visual Analytics (CSE 6242), Instructor: Polo Chau	
Projects	<p>Explore the history of space and interplanetary travel through a visualization of space data Keywords: Information Visualization, Scrolltelling, d3.js https://psy901.github.io/space-mission-project/</p> <p>Recommender System for Videos on Oksusu Application Keywords: Deep Learning, Sequence/Word Embedding, Approx. k-NN, Heterogeneous Features SK Telecom, Seoul, Republic of Korea</p> <p>A Fast Data Compression with Shared Virtual Memory in Heterogeneous System Architecture Keywords: OpenCL, GPGPU, SVM, HSA Undergraduate thesis</p> <p>Personalized Recommendation for Credit Card Rewards Keywords: Coupled Matrix Factorization, Time Series Data Hyundai Card, Seoul, Republic of Korea</p>	2018
Skills	<p>Programming Languages Python, JavaScript, HTML, R, Matlab, Java, C, C++, Ocaml, Scheme</p> <p>Machine Learning / Deep Learning / Data Science TensorFlow, Keras, scikit-learn, OpenCV, Numpy, Pandas, SciPy, NetworkX</p> <p>GPU-accelerated Data Science cuGraph, cuDF, cuML, BlazingSQL, OpenCL</p> <p>Data Visualization D3.js, HoloViews, Matplotlib, WebGL, ggplot</p>	2017
Professional Service	Reviewer KDD 2019	2016