

# Haekyu Park

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Education	<b>Ph.D., Computer Science</b> Georgia Institute of Technology, Atlanta, GA Advisor: Dr. Polo Chau	Aug 2018 - Present
	<b>B.S., Computer Science and Engineering</b> Seoul National University, Seoul, Republic of Korea Graduated with honors (Cum Laude)	Mar 2012 - Aug 2017
Work Experience	<b>Graduate Research Assistant</b> Georgia Institute of Technology, Atlanta, GA	Aug 2018 - Present
	<b>Data Science Intern</b> NVIDIA, Austin, TX	May 2019 - Aug 2019
	<b>Undergraduate Research Assistant</b> Seoul National University, Seoul, Republic of Korea	June 2016 - Aug 2017
Publications	<b>Summit: Scaling Deep Learning Interpretability by Visualizing Activation and Attribution Summarizations</b> Fred Hohman, <a href="#">Haekyu Park</a> , Caleb Robinson, Duen Horng Chau IEEE Visual Analytics Science and Technology (VAST), 2019.	
	<b>NeuralDivergence: Exploring and Understanding Neural Networks by Comparing Activation Distributions</b> <a href="#">Haekyu Park</a> , Fred Hohman, Duen Horng Chau Poster, PacificVis, 2019.	
	<b>SIDE: Representation Learning in Signed Directed Networks</b> Junghwan Kim, <a href="#">Haekyu Park</a> , Ji-Eun Lee, and U Kang The Web Conference, 2018.	
	<b>A Comparative Study of Matrix Factorization and Random Walk with Restart in Recommender Systems</b> <a href="#">Haekyu Park</a> , Jinhong Jung, and U Kang IEEE Big Data, 2017.	
Projects	<b>Explore the history of space and interplanetary travel through a visualization of space data</b> Keywords: Information Visualization, Scrollytelling, d3.js <a href="https://psy901.github.io/space-mission-project/">https://psy901.github.io/space-mission-project/</a>	2018
	<b>Recommender System for Videos on Oksusu Application</b> Keywords: Deep Learning, Sequence/Word Embedding, Approx. k-NN, Heterogeneous Features SK Telecom, Seoul, Republic of Korea	2017
	<b>A Fast Data Compression with Shared Virtual Memory in Heterogeneous System Architecture</b> Keywords: OpenCL, GPGPU, SVM, HSA Undergraduate thesis	2017
	<b>Personalized Recommendation for Credit Card Rewards</b> Keywords: Coupled Matrix Factorization, Time Series Data Hyundai Card, Seoul, Republic of Korea	2016
Grants and Funding	<b>Amazon AWS Research Grant</b> Co-PIs: Nilaksh Das, Scott Freitas, Duen Horng Chau Funded \$5,000 in AWS cloud credits	2018

Awards and Honors	<b>National Scholarship For Science and Engineering</b> Merit-based	2015
Patents	<b>Apparatus and Method for Representation Learning in Signed Directed Networks</b> U Kang, Junghwan Kim, and Haekyu Park Korean Patent 10-2017-0130914, 2017.	
Skills	<b>Programming Languages</b> Python, JavaScript, HTML, R, Matlab, Java, C, C++, Ocaml, Scheme  <b>Machine Learning / Deep Learning / Data Science</b> TensorFlow, Keras, scikit-learn, OpenCV, SciPy  <b>GPU-accelerated Data Science</b> cuGraph, cuDF, cuML, BlazingSQL, OpenCL  <b>Numerical Computing / Data Science</b> Numpy, Pandas, NetworkX  <b>Data Visualization</b> D3.js, HoloViews, Matplotlib, WebGL, ggplot	
Professional Service	<b>Reviewer</b> KDD 2019	