

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 <u>Fred Hohman, Haekyu Park, Caleb Robinson, Duen Horng Chau</u> 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, Fred Hohman, Duen Horng Chau</u> 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, Jinhong Jung, and U Kang</u> IEEE Big Data, 2017. | |
| Projects | 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/ | 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 |

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| | 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 <u>Haekyu Park</u> Korean Patent 10-2017-0130914, 2017. | |
| 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> | |
| Professional Service | Reviewer KDD 2019 | |