

Hannah Kim

CODA Building, 12th floor
756 W Peachtree St NW
Atlanta, GA 30308

+1 (404) 630-8760 ☎
hannahkim@gatech.edu ✉
kimhannah.net ✓

OBJECTIVE Computer science Ph.D. candidate with proven visual analytics research and programming skills. Seeking a position as a full-time research or software engineering position in the area of Text Mining, Machine Learning, and Visual Analytics for Summer 2020.

EDUCATION **Georgia Institute of Technology**, Atlanta, Georgia
Ph.D. in Computer Science (GPA 4/4.0) August 2015 –
M.S. in Computer Science (Machine Learning, GPA 4/4.0) August 2013 – May 2015

Seoul National University, Seoul, Republic of Korea
M.S. in Business Administration (Accounting) March 2011 – August 2013
B.S. in Mathematics March 2006 – February 2011
Minor in Business Administration

PUBLICATIONS **H. Kim**, D. Choi, B. Drake, A. Endert, and H. Park. TopicSifter: Interactive Search Space Reduction through Targeted Topic Modeling, IEEE Conference on Visual Analytics Science and Technology (VAST), 2019.

H. Kim, D. Katerenchuk, D. Billet, J. Huan, H. Park, and B. Li. Understanding Actors and Evaluating Personae with Gaussian Embeddings, AAAI Conference on Artificial Intelligence (AAAI), 2019.

J. Choo, **H. Kim**, E. Clarkson, Z. Liu, C. Lee, F. Li, H. Lee, R. Kannan, C. Stolper, J. Stasko, and H. Park. VisIRR: An Interactive Visual System for Information Retrieval and Recommendation for Large-scale Document Data, ACM Transactions on Knowledge Discovery from Data (TKDD), 2017.

H. Kim, J. Choo, A. Endert, and H. Park. High-Recall Document Retrieval from Large-Scale Noisy Documents via Visual Analytics based on Targeted Topic Modeling, IEEE Conference on Visual Analytics Science and Technology (VAST-Poster), 2017.

H. Kim, J. Choo, C. Lee, H. Lee, C. Reddy, and H. Park. PIVE: Per-Iteration Visualization Environment for Real-time Interactions with Dimension Reduction and Clustering, AAAI Conference on Artificial Intelligence (AAAI), 2017.

B. C. Kwon, **H. Kim**, E. Wall, J. Choo, H. Park, and A. Endert. AxiSketcher: Interactive Nonlinear Axis Mapping through Users' Drawing on Visualization, IEEE Transactions on Visualization and Computer Graphics (TVCG), 2016.

B. Saket, **H. Kim**, E. T. Brown, and A. Endert. Visualization by Demonstration: An Interaction Paradigm for Visual Data Exploration, IEEE Symposium on Information Visualization (InfoVis), 2016.

H. Kim, J. Choo, H. Park, and A. Endert. InterAxis: Steering Scatterplot Axes via Observation-Level Interaction, IEEE Transactions on Visualization and Computer Graphics (TVCG), 2015.

H. Kim, J. Choo, J. Kim, C. Reddy, and H. Park. Simultaneous Discovery of Common and Discriminative Topics via Joint Nonnegative Matrix Factorization, ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2015.

H. Kim, J. Choo, C. Reddy, and H. Park. Doubly-Supervised Embedding Based on Label Information and Intrinsic Clusters for Visualization, Neurocomputing, 2015.

J. Choo, C. Lee, **H. Kim**, H. Lee, B. Drake, and H. Park. PIVE: Per-Iteration Visualization Environment for Supporting Real-time Interactions with Computational Methods, IEEE Conference on Visual Analytics Science and Technology (VAST-Poster), 2014, Best Poster Award.

J. Choo, C. Lee, **H. Kim**, H. Lee, Z. Liu, R. Kannan, C. Stolper, J. Stasko, B. Drake, and H. Park. VisIRR: Visual Analytics for Information Retrieval and Recommendation for Large-Scale Document Data, IEEE Conference on Visual Analytics Science and Technology (VAST-Poster), 2014.

J. Choo, Y. Han, M. Hu, **H. Kim**, J. Nugent, F. Foggi, H. Park, and J. Stasko. Exploring Anomalies in GAStech: VAST Mini Challenge 1 and 2, IEEE Conference on Visual Analytics Science and Technology (VAST Challenge), 2014.

HONORS & AWARDS	Microsoft Research Women's Fellowship	2016
	The Marshall D. Williamson Fellowship, Georgia Institute of Technology	2015
	Kwanjeong Education Foundation Fellowship, Republic of Korea	2013 – 2015
	Best Poster Award (VAST), IEEE VIS Conference	2014
	Honorable Mention Award, VAST Challenge, IEEE VIS Conference	2014
	Seoul National University Scholarship, Republic of Korea	2006, 2010
	Lotte Foundation Scholarship, Republic of Korea	2007 – 2009
	Korea Student Aid Foundation Scholarship, Republic of Korea	2007

OTHER WORK EXPERIENCE	Disney Research , Pittsburgh, Pennsylvania	
	Research Intern	May 2017 – August 2017
	· Studied relationships among movies, actors, characters, and keywords using Gaussian embeddings	
	IBM Research - Almaden , San Jose, California	
	Research Intern	May 2016 – August 2016
	· Utilized knowledge graph to improve search in collaborative analytics platform	
	· Conducted a user study to discover important factors that influence decision making in search	
	Georgia Institute of Technology , Atlanta, Georgia	
	Teaching Assistant for CSE6643/MATH6643: Numerical Linear Algebra	Spring 2015, 2016
	· Graded homework assignments and exams and conducted office hours	
Teaching Assistant for CS6505: Computability, Complexity, and Algorithms	Fall 2014	
· Helped with preparing homework assignments and exams and conducted office hours		
GuideStar Korea , Seoul, Republic of Korea		
Researcher, Volunteer Reporter	April 2010 – July 2013	
· Analyzed nonprofit financial data and improved GuideStar Korea's nonprofit information system		

EXTRA-CURRICULAR ACTIVITIES	President , College of Computing, Georgia Tech Korean Student Association, Atlanta, Georgia	2015
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SKILLS	MATLAB, Python, JavaScript, D3, Java, C++
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