

Sangho Suh

Ph.D. Student

University of Waterloo

Email: sh31659@gmail.com

Website: <https://sanghosuh.github.io>

Research Statement

My Ph.D. work focuses on creating new techniques and interactive systems that improve the way people acquire and interact with information/knowledge.

Areas: Human-computer interaction, human computation, crowdsourcing, intelligent user interfaces, learning experience

Education

University of Waterloo / Ph.D. Candidate in Computer Science
SEPTEMBER 2017 - , Ontario, CANADA

Korea University / B.S. in Computer Science and Engineering
MARCH 2013 - FEBRUARY 2017, Seoul, SOUTH KOREA

University of Chicago¹
SEPTEMBER 2008 - DECEMBER 2008, Chicago, ILp

Honors and Awards

2017 - Ontario Trillium Scholarship (\$40,000/year; 4 years), Univ. of Waterloo
2017 - GO-BELL Scholarship (\$12,000/year; 2 years), Univ. of Waterloo
2016 - Best Student Paper Award², IEEE ICDM
2016 - Best Graduate Project (Research), Korea University
2016 - Best Graduate Project (Software), Korea University
2016 - KU Research Scholarship (\$1,000), Korea University
2016 - Student Travel Award (\$500), IEEE ICDM
2016 - Academic Excellence Award, Korea University
2016 - SK Creative Challenge Award (\$500), HCI Korea Conference
2015 - Project Management Award, KPMA
2015 - Outstanding Mentor Award (\$1,000), Ilju Foundation
2014-2016 - Ilju Scholarship (\$30,000), Ilju Foundation
2010 - Outstanding Soldier Award, Republic of Korea Army
2009 - Distinguished Recruit Award, Republic of Korea Army

¹ Did not return due to financial reasons after taking a leave of absence for 2-year military service in South Korea

² Out of 917 total submissions

Publications

Conference Papers

S. Suh, J. Choo, J. Lee and C. Reddy. "L-EnsNMF: Localized Ensemble of Nonnegative Matrix Factorization for Local Topic Discovery" In IJCAI 2017.

S. Suh, J. Choo, J. Lee and CK. Reddy. "L-EnsNMF: Boosted Local Topic Discovery via Ensemble of Nonnegative Matrix Factorization." In ICDM 2016.
(Best Student Paper Award)

Workshop Papers

S. Chung, **S. Suh**, C. Park, K. Kang, J. Choo and B. Kwon. "ReVACNN: Real-Time Visual Analytics for Convolutional Neural Network." In SIGKDD Workshop on Interactive Data Exploration and Analytics 2016.

S. Chung, C. Park, **S. Suh**, J. Choo and B. Kwon. "ReVACNN: Steering Real-Time Visual Analytics for Convolutional Neural Network." In NIPS Workshop on Future of Interactive Learning Machines 2016.

Journal

S. Suh, S. Shin, J. Choo, J. Lee and C. Reddy. "L-EnsNMF: Boosted Ensemble of Nonnegative Matrix Factorization for Local Topic Discovery" In KAIS 2017.

Research Experience

Data Mining & Information Systems Lab

JANUARY 2014 - AUGUST 2014, Korea University

Data and Visual Analytics Lab

SEPTEMBER 2015 - DECEMBER 2016, Korea University

Invited Talks

"L-EnsNMF: Boosted Local Topic Discovery via Ensemble of Nonnegative Matrix Factorization" Korean Institute of Information Scientists and Engineers (KIISE), Dec. 2016

"L-EnsNMF: Boosted Local Topic Discovery via Ensemble of Nonnegative Matrix Factorization" IEEE International Conference on Data Mining (ICDM), Dec. 2016

“ReVACNN: Steering Real-Time Visual Analytics for Convolutional Neural Networks” Future of Interactive Learning Machines workshop at Neural Information Processing Systems (NIPS), Dec. 2016

“EYEscort: Beacon-driven navigation app for the visually-impaired”
HCI Korea Conference, Feb. 2016

Industry Experience

DaumSoft / Data Visualization Engineer / 2016

Implemented APIs for data visualization (d3.js) and designed the layout for the company’s central system which presents all the services the company provides

Pagoda Academy / TOEFL Instructor / 2011 – 2012

Taught more than 2,000 students and pioneered a novel method called “Speaking without Thinking” which significantly improved their English proficiency

References

Edith Law (Ph.D. advisor)

Assistant Professor

School of Computer Science, University of Waterloo

Email: dr.edith.law@gmail.com

Jaegul Choo (Undergraduate research advisor)

Assistant Professor

Dept. of Computer Science and Engineering, Korea University

Email: jchoo@korea.ac.kr

Hyeonchol Kim (Undergraduate research advisor)

Professor

Dept. of Computer Science and Engineering, Korea University

Email: hkim64@gmail.com

Jounghyun Kim (Undergraduate research advisor)

Professor

Dept. of Computer Science and Engineering, Korea University

Email: gjkim@korea.ac.kr