

Sangho Suh

Ph.D. Student

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<https://sanghosuh.github.io>

Research Statement

My Ph.D. work focuses on creating new techniques and interactive systems that help people learn in a more effortless, effective way by utilizing what we know about how human process information.

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, IL

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

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

2009 - Distinguished Recruit Award, Republic of Korea Army

Publications

Conference Papers

S. Suh, J. Choo, J. Lee and C. Reddy. "Local Topic Discovery via Ensemble of Nonnegative Matrix Factorization." 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. "Localized User-Driven Topic Discovery via Boosted Ensemble of Nonnegative Matrix Factorization." 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)
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Dept. of Computer Science and Engineering, Korea University
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Jounghyun Kim (Undergraduate research advisor)
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