Donghyeon Won

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Education

University of California, Los Angeles (UCLA)   Sep. 2016 – Present
Master of Science in Electrical and Computer Engineering   Los Angeles, CA

Seoul National University (SNU)   Feb. 2016
Bachelor of Science in Electrical and Computer Engineering   Seoul, Korea

Publication

D.Won, Z.Steinert-Threlkeld and J.Joo "Protest Activity Detection and Perceived Violence Estimation from Social Media Images" In Proceedings of ACM Multimedia 2017.

J.Lee, **D.Won**, G.Kim and S.Yoon "An Advanced Graph Sampler Agent with Heterogeneous Multiple Chains" (Submitted to ICDE 2018)

Research Experience

Graduate Researcher   Oct. 2016 – Present
Joo Lab, UCLA (Advisor: Prof. Jungseock Joo)   Los Angeles, CA
· Implemented a computational pipeline for protest detection and violence estimation from twitter images
· Released UCLA Protest Image Dataset, a public image dataset with perceived violence annotation
· Built a computational pipeline for protest crowd size estimation
· Designed a clickbait classifier for fashion post on Instagram

Undergraduate Researcher   Oct. 2014 – Oct. 2015
Data Science Laboratory, SNU (Advisor: Prof. Sungroh Yoon)   Seoul, Korea
· Designed and implemented an advanced unbiased graph sampler inspired by Hybrid Monte Carlo
· Built a electronic circuit classifier using graph similarity methods

Work Experience

Research Intern   Oct. 2015 – May. 2016
Applied Surface Technology Inc.   Seongnam, Korea
· Implemented a novel and efficient MALDI-TOF MS signal processing algorithm
· Developed machine learning algorithm for bacteria identification using MALDI-TOF MS

Sergeant   Jan. 2013 – Oct. 2014
Department of Intelligence and Operation, Army HQ, Republic of Korea Army   Seoul, Korea
· Analyzed underground acoustic waves and infrasound signals to detect North Korean infiltration tunnels

Intern   Jun. 2011 – Aug. 2011
Visual Display Division, DMC Business, Samsung Electronics Co., Ltd.   Suwon, Korea
· Conducted various experiments to detect circuit faults in 3D television and 3D glasses prototypes

Honors & Awards

National Scholarship for Science and Engineering   Mar. 2009 – Feb. 2013
Korea Student Aid Foundation
· Full tuition given to top undergraduate students in science and engineering major for academic excellence

Skills

Programming Languages   Python, MATLAB, Java, R, Lua
Tools   Torch7, PyTorch, MongoDB, LaTeX