Taehoon Kim

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RESEARCH INTERESTS
Machine Learning, Deep Learning, Natural Language Processing

EDUCATION
Ulsan National Institute of Science and Technology, Ulsan, South Korea
B.A., in Computer Science & Engineering, Electrical Engineering — Mar 2011 – Aug 2015

ACADEMIC HONORS & AWARDS
Student Cluster Challenge, Finalist — Jun 2014
International Supercomputing Conference 2014
One of 11 undergraduate teams selected through the preliminary contest.

Korea Whitehat Contest 2013, 3rd place — Sep 2013
Ministry of National Defense and National Intelligence Service
Awarded by the Minister of National Defense. Received an award of $8,000.

Asia student Supercomputing Challenge 14, Finalist — Apr 2014
One of 16 teams among 82 international teams selected through the preliminary contest.

PUBLICATIONS
1) T. Kim and J. Choi, "Reading documents for bayesian Online Change Point Detection," in *Empirical Methods on Natural Language Processing*, Lisbon, Portugal, Sep 2015.

RESEARCH EXPERIENCE
Lawrence Berkeley National Laboratory, California, USA
Undergraduate Research Student — Jul 2015 – Aug 2015
- Identify energy use patterns in smart meter data, and relate these patterns to actions of households
- Detect changes in energy use patterns related to energy savings from time and behavior based programs
- Make baseline models for each household to cluster the households into different groups

Probabilistic Artificial Intelligence Lab, UNIST
Undergraduate Research Student — Sep 2014 – Sep 2015
- Improved Bayesian Online Change Point Detection by Reading Texts
- Generative model for Korean poetry using Multi-layer LSTM for Character-level Language
- Food Image Recognition: Combination of Deep Convolutional Features and Shallow Encoded Features
- Language-specific Sentiment Analyzer using Morpheme Analysis

EMPLOYMENT
Moloco, Palo Alto, California, USA
Summer Student Internship — Oct 2014 – Jan 2015
- Implement a maximum-likelihood estimation model of the number of app download users.
- Build an online visualization of stochastic model from a large-scale crawled database by optimizing SQL queries and building a memory based cache system.

NAVER LABS, Seongnam, Gyeonggi-do, South Korea
Summer Student Internship — Jul 2014 – Aug 2014
- Build a cloud comment hosting service using Django and Angular.js.

OTHER HONORS & AWARDS
Asia student Supercomputing Challenge 13, Finalist — Jan 2013
One of 10 teams among 43 teams selected through the preliminary contest.

Holyshield Hacking Contest 2013, 1st place, Catholic University of Korea — Nov 2013
Awarded by the President of Catholic University of Korea. Received an award of $1,000.

Student Outstanding Contribution Awards, UNIST — Dec 2013, Dec 2014

SCHOLARSHIPS
Global Scholarship for Undergraduate Research Opportunities Program, UNIST — 2015
Received $3,000 as a financial support for research internship at Lawrence Berkeley National Laboratory.

Academic Performance Scholarship, UNIST — 2011 – 2015

National Science and Engineering Scholarship, Korean Student Aid Foundation — 2013

CAMPUS ACTIVITIES
HeXA, Computer Security Club, UNIST
President — Aug 2012 – Mar 2013
- Lead more than 10 different hacking competitions and international supercomputing competitions.
- Find a vulnerability of Korean online shopping mall and electronic attendance systems in UNIST.
- Reverse engineered LINE, KakaoTalk, Between, Ndrive, and Korail.

SKILLS
Python, MATLAB, JavaScript, Go, Lua, C++, Java, C#