Jeongyeol Kwon

CONTACT INFORMATION

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EDUCATION

The University of Texas at Austin, TX

Ph.D. in Electrical and Computer Engineering.   2017.8 - present

Seoul National University (SNU), Seoul, Korea

B.S. in Electrical Engineering, GPA 4.00/4.30   2008.3 - 2016.2

Seoul Science High School, Seoul, Korea

High school diploma with distinction in 2 years   2006.3 - 2008.2

RESEARCH INTERESTS

Machine learning, large-scale optimization, statistical learning, robust statistics and applications to deep learning.

RESEARCH EXPERIENCE

DICE (Decision, Information, and Communications Engineering), The University of Texas at Austin, TX

Grduate Research Assistant (Prof. Constantine Caramanis)   2018.1 - present

- Analyzing the global behavior of EM algorithm in a problem setting of mixture of two linear regressions:
  J. Kwon and C. Caramanis. "Global Convergence of EM Algorithm for Mixtures of Two Component Linear Regression," *arXiv preprint arXiv:1810.05752* (2018).

- Adversarial Examples: Robustifying classifier to malicious perturbation on test input

PIL (Perceptron and Intelligence Laboratory, Seoul National University

Research Internship (Prof. Jin Young Choi)   2016.7 - 2017.4

- Multi-camera multi-object tracking in computer vision with network-flow formulation
- Exploring proximal gradient descent algorithm for objective function with multiple non-smooth functions.

Design Project for Electrical Engineering, Seoul National University

Course Project: Computer Vision (Prof. Nam Ik Choi)   2014.8 - 2014.12

- Formulate optimization problem for image-dehazing with prior knowledge on the natural scene.

WORK EXPERIENCE

Scientific Analog, Seoul, Korea

R&D Engineer, Program Developer for Mixed Circuit Simulator   2015.5 - 2016. 6

Redduck, Inc., Seoul. Korea

Programmer, PC Game Client Developer   2011.2 - 2013.12

TEACHING EXPERIENCE

The University of Texas at Austin, Austin, TX

Teaching Assistant, EE 381V, Large Scale Optimization   Fall 2018

Teaching Assistant, EE 381V-SE, Introduction to Convex Optimization   Spring 2018

HONORS AND AWARDS

Graduate Study Scholarship, The Kwanjeong Educational Foundation,   2017 - 2021
- Four-year scholarship for doctorate program.

President Scholarship for Undergraduate, Korea Student Aid Foundation   2008 - 2014
- Four-year scholarship for undergradute program.

International Collegiate Programming Contest, Association for Computing Machinery 2010
- 6th Place in Daejeon Region
- 2nd Place in Hanoi Region

Korea Olympiad in Informatics, Ministry of Science, ICT and Future Planning   2007
- Gold in Area of High School

Korea Physics Olympiad, The Korean Physical Society   2007
- Silver in Area of High School

OTHER
- Computer Skills: C, C++, Python LaTeX