Juyong Kim

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Education

Machine Learning Department, Carnegie Mellon University • Ph.D. student in Machine Learning • Advisor: Prof. Pradeep Ravikumar	Sep. 2018 – Current
 Vision & Learning Lab., Seoul National University (GPA: 4.18/4.3) M.S. in Computer Science and Engineering Advisor: Prof. Gunhee Kim 	Mar. 2016 – Feb. 2018
 Seoul National University (GPA: 4.06/4.3 GPA in major: 4.12/4.3) B.S. in Electrical and Computer Engineering(Summa Cum Laude) Received Best Engineering Graduate Student Award 	Mar. 2008 – Feb. 2015

Work and Research Experiences

AITRICS, Seoul, Korea	Mar. 2018 – Jul. 2018
 Research Scientist Internship 	

Vision & Learning Lab., Seoul National University

Sep. 2015 - Feb. 2018

- · Research Assistant and Master student
- Working on Deep Learning(CNN), under the Supervision of Prof. Gunhee Kim(SNU) and Sungju Hwang(UNIST)
- "SplitNet: Learning to Semantically Split Deep Networks for Parameter Reduction and Model Parallelization", "Taxonomy-Regularized Semantic Deep Convolutional Neural Networks" (See Publications below.)

IR-Link, Seoul, Korea Nov. 2012 – Jul. 2014

- Software Engineer (As alternative military service)
- Mobile Web Application Development / Windows Application Development (See Skills below.)

ITWell, Seoul, Korea Sep. 2011 - Oct. 2012

- Software Engineer (As alternative military service)
- Windows CE Application Development

Cyber-Physical Systems Lab., Seoul National University

Jan. 2011 – Sep. 2011

- · Undergraduate Researcher on Robotics, Computer Vision, under the Supervision of Prof. Songhwai Oh
- "Actionable Topological Mapping for Navigation Using Nearby Objects" (See Publications below.)

Publications

International Conferences

- <u>Juyong Kim</u>, Y. Park, G. Kim, S. Hwang, "*SplitNet*: Learning to Semantically Split Deep Networks for Parameter Reduction and Model Parallelization", in *International Conference on Machine Learning (ICML)*, Aug. 2017.
- W. Goo, <u>Juyong Kim</u>, G. Kim, S. Hwang, "Taxonomy-Regularized Semantic Deep Convolutional Neural Networks", in *European Conference on Computer Vision (ECCV)*, Oct. 2016.
- J. Kim, <u>Juyong Kim</u>, S. You, Y. Oh, and S. Oh, "Actionable Topological Mapping for Navigation Using Nearby **Objects**," in *Proc. of the IEEE International Conference on Automation Science and Engineering (CASE)*, Aug. 2012.

Honors and Awards

ILJU Overseas Ph.D. ScholarshipSupporting outstanding PhD students studying abroad.	Aug. 2018 – Current
Hyundai Motor Chung Mong-Goo Scholarship • Full tuition & fees during my Master's degree program.	Mar. 2016 – Feb. 2018
NVIDIA Deep Learning Contest 2016(Korea) • 2 nd place in Free Topic.	Oct. 2016
Silver Prize in 25 th Global Software Contest Exhibit	Dec. 2013

- Hosted by Ministry of Science ICT and Future Planning, Korea.
- Mobile Voting Service (MVS Korean) (<u>Certificate</u>)

National Science and Engineering Scholarship

Full tuition & fees during my college life, Funded by Korea Student Aid Foundation.

Korea Physics Olympiad

Silver Medal (Certificate)

Dec. 2007

Mar. 2008 - Feb. 2015

Research Interests

• Machine Learning, Deep Learning Architecture(especially in CNN), Computer Vision, Large-scale Visual Recognition, AI, Robotics

Teaching Experiences & Extracurricular Activities

Teaching Assistant, Seoul National University

1st semester, 2016

· M1522.001000 Computer Vision

Tutor, Seoul National University

• Selected as a Physics tutor

1st semester, 2010

Skills

Relevant Coursework

• 420.314 Introduction to Random Variables Processes

• 420.211 Programming Methodology

• 420.310 Fundamentals of Control Engineering

• 446.345 Introduction to Robot Engineering

• 420.405 Design Project for Electrical Devices & Systems

• 430.457 Introduction to Intelligent Systems

• 430.659 Topics in Computer and VLSI(Machine Learning) • 406.563 Convex Optimization

• 4190.681A Genetic Algorithms

• 420.216 Linear Algebra for Electrical Systems

• 420.327 Data Structures and Algorithms

• 420.456 Advanced Control Techniques

• 4190.408 Artificial Intelligence

430.714 Estimation Theory

• 430.711A Introduction to Computer Vision

M1522.001300 Probabilistic Graphical Models

• 4190.678 Natural Language Processing

Programming Language/Library

- C++, Java, Python, C#, MATLAB, Mathematica, SQL, Verilog.
- TensorFlow, Caffe, Theano, OpenCV, MFC, Web development(w. Spring Framework), .Net Application, HTK Speech Recognition Toolkit, Android, etc.

(Last update: 02/22/2019)