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Juyong Kim

Date of Birth: 21/5/1990

248-35, Sangdae 1-dong, Jinju-si, Gyeongsangnam-do, 660-806, Republic of Korea

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Education

Vision & Learning Lab., Seoul National University

Mar. 2016 – Present

- Master Student in Computer Science and Engineering
- Advisor: Prof. Gunhee Kim

Seoul National University (GPA: 4.06/4.3 GPA in major: 4.12/4.3)

Mar. 2008 – Feb. 2015

- B.S. in Electrical and Computer Engineering(Summa Cum Laude)
- Received Best Engineering Graduate Student Award

Gyeongnam Science High School

Mar. 2006 – Feb. 2008

- A special purpose high school for scientifically gifted students.
- Physics Major. 1 year early graduation

Work and Research Experiences

Vision & Learning Lab., Seoul National University

Sep. 2015 – Present

- Research Assistant and Master student(currently)
- Working on Deep Learning(CNN), under the Supervision of Prof. Gunhee Kim(SNU) and Sungju Hwang(UNIST)

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

- Researcher on Robotics, Computer Vision
- "Actionable Topological Mapping for Navigation Using Nearby Objects" (See Publications below.)

Publications

International Conferences

- **Juyong Kim**, 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, **Juyong Kim**, G. Kim, S. Hwang, "**Taxonomy-Regularized Semantic Deep Convolutional Neural Networks**", in *European Conference on Computer Vision (ECCV)*, Oct. 2016.
- J. Kim, **Juyong Kim**, 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

Hyundai Motor Chung Mong-Goo Scholarship

Mar. 2016 – Present

- Full tuition & fees during my Master's degree program.

Silver Prize in 25th Global Software Contest Exhibit

Dec. 2013

- Hosted by Ministry of Science ICT and Future Planning, Korea.
- Mobile Voting Service (MVS - Korean) ([Certificate](#))

National Science and Engineering Scholarship

Mar. 2008 – Feb. 2015

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

Physics Honor Class (1, 2)

2008

- Top 20 students among the freshman admitted to Seoul National University.

Korea Physics Olympiad

Dec. 2007

- Silver Medal ([Certificate](#))

JeongSan Science Talent Scholarship

2006 – 2007

- \$3,000/year during my high school years, funded by JeongSan Scholarship Foundation.

Research Interests

- Machine Learning, Deep Learning(especially in CNN), Computer Vision, AI, Robotics

Teaching Experiences & Extracurricular Activities

Teaching Assistant, Seoul National University • M1522.001000 Computer Vision	1 st semester, 2016
Tutor, Seoul National University • Selected as a Physics tutor	1 st semester, 2010
Tutor, Gyeongnam Science High School • Selected as a Physics tutor	Jul. 2008, Jan. 2009
President, Neophysics, Gyeongnam Science High School • Club for students gifted in physics	Oct. 2006 – Feb. 2008

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)
- 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
- 406.563 Convex Optimization

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.