

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

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| Vision & Learning Lab., Seoul National University <ul style="list-style-type: none">• Master Student in Computer Science and Engineering• Advisor: Prof. Gunhee Kim | Mar. 2016 – Present |
| Seoul National University (GPA: 4.06/4.3 GPA in major: 4.12/4.3) <ul style="list-style-type: none">• B.S. in Electrical and Computer Engineering(Summa Cum Laude)• Received Best Engineering Graduate Student Award | Mar. 2008 – Feb. 2015 |
| Gyeongnam Science High School <ul style="list-style-type: none">• A special purpose high school for scientifically gifted students.• Physics Major. 1 year early graduation | Mar. 2006 – Feb. 2008 |

Work and Research Experiences

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| Vision & Learning Lab., Seoul National University <ul style="list-style-type: none">• Research Assistant and Master student(currently)• 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.) | Sep. 2015 – Present |
| IR-Link, Seoul, Korea <ul style="list-style-type: none">• Software Engineer (As alternative military service)• Mobile Web Application Development / Windows Application Development (See Skills below.) | Nov. 2012 – Jul. 2014 |
| ITWell, Seoul, Korea <ul style="list-style-type: none">• Software Engineer (As alternative military service)• Windows CE Application Development | Sep. 2011 – Oct. 2012 |
| Cyber-Physical Systems Lab., Seoul National University <ul style="list-style-type: none">• Undergraduate Researcher on Robotics, Computer Vision, under the Supervision of Prof. Songhwai Oh• "Actionable Topological Mapping for Navigation Using Nearby Objects" (See Publications below.) | Jan. 2011 – Sep. 2011 |

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

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| Hyundai Motor Chung Mong-Goo Scholarship <ul style="list-style-type: none">• Full tuition & fees during my Master's degree program. | Mar. 2016 – Present |
| Silver Prize in 25th Global Software Contest Exhibit <ul style="list-style-type: none">• Hosted by Ministry of Science ICT and Future Planning, Korea.• Mobile Voting Service (MVS - Korean) (Certificate) | Dec. 2013 |
| National Science and Engineering Scholarship <ul style="list-style-type: none">• Full tuition & fees during my college life, Funded by Korea Student Aid Foundation. | Mar. 2008 – Feb. 2015 |
| Physics Honor Class (1, 2) <ul style="list-style-type: none">• Top 20 students among the freshman admitted to Seoul National University. | 2008 |
| Korea Physics Olympiad <ul style="list-style-type: none">• Silver Medal (Certificate) | Dec. 2007 |

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 Architecture(especially in CNN), Computer Vision, Large-scale Visual Recognition, 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.