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# Juyong Kim

Date of Birth: 21/5/1990

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## Education

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

## Work and Research Experiences

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

## Honors and Awards

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| <b>Hyundai Motor Chung Mong-Goo Scholarship</b> <ul style="list-style-type: none"><li>• Full tuition &amp; fees during my Master's degree program.</li></ul>  | Mar. 2016 – Present   |
| <b>Silver Prize in 25<sup>th</sup> Global Software Contest Exhibit</b> <ul style="list-style-type: none"><li>• Hosted by Ministry of Science ICT and Future Planning, Korea.</li><li>• Mobile Voting Service (MVS - Korean) (<a href="#">Certificate</a>)</li></ul> | Dec. 2013             |
| <b>National Science and Engineering Scholarship</b> <ul style="list-style-type: none"><li>• Full tuition &amp; fees during my college life, Funded by Korea Student Aid Foundation.</li></ul>   | Mar. 2008 – Feb. 2015 |
| <b>Physics Honor Class (1, 2)</b> <ul style="list-style-type: none"><li>• Top 20 students among the freshman admitted to Seoul National University.</li></ul>   | 2008                  |
| <b>Korea Physics Olympiad</b> <ul style="list-style-type: none"><li>• Silver Medal (<a href="#">Certificate</a>)</li></ul>  | Dec. 2007             |
| <b>JeongSan Science Talent Scholarship</b> <ul style="list-style-type: none"><li>• \$3,000/year during my high school years, funded by JeongSan Scholarship Foundation.</li></ul>   | 2006 – 2007           |

## Publications

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### 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.

## Research Interests

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

## Teaching Experiences & Extracurricular Activities

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

## Skills

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### 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.