

EDUCATION

- **The University of Edinburgh** Edinburgh, United Kingdom
PhD in Informatics: Robotics, Computer Vision, Computer Graphics and Animation Sep 2019 – Aug 2023 (Estimated)
- **The University of Edinburgh** Edinburgh, United Kingdom
MSc in Artificial Intelligence (With Merit, 70%) Sep 2018 – Aug 2019
- **Ulsan National Institute of Science and Technology (UNIST)** Ulsan, South Korea
*Bachelor in Electrical Engineering, Computer Science and Engineering: **magna cum laude** Mar 2014 – Feb 2018*
 - **Contribution Award**¹: Chairman's Award
 - **GPA of major subjects**: 4.00/4.3 (96.0/100)
 - **Total Grade Point Average**: 3.79/4.3 (93.9/100)

PUBLICATIONS

- M. S. Ryoo, **K. Kim** and H. J. Yang, "Extreme Low Resolution Activity Recognition with Multi-Siamese Embedding Learning," *AAAI Conference on Artificial Intelligence*, New Orleans, Louisiana, February 2018. [*acceptance rate: 24.6%*]
<https://arxiv.org/pdf/1708.00999.pdf>
- **Patent**: Falling out of hair management system
<https://patents.google.com/patent/KR20140094301A/en>

EXPERIENCE

- **NAVER UNIST Undergraduate Poster Award (NAVER UUPA)** NAVER Corp., UNIST
Poster presentation of Extreme Low Resolution Activity Recognition: won 1st place Dec 2017
- **EgoVid Inc. (<http://egovid.com>)** Ulsan, South Korea
Machine Learning Researcher & Developer May 2016 – Dec 2017
 - **Realtime Demonstration Running on Embedded Device at CVPR 2017**: Demonstrated my work running on NVIDIA Jetson TX2 and helped my colleague for implementing different demonstration about Video Anonymisation Algorithm at CVPR (Computer Vision Pattern Recognition) 2017 conference.
https://youtu.be/7jkSum_pj9o?t=25s
 - **UC Berkeley Entrepreneurship Programme**: Visited UC Berkeley Sutardja Center of Entrepreneurship & Technology for 9 weeks to exchange ideas about making a start-up company.
UC Berkeley News Article: <http://scet.berkeley.edu/keeping-personal-machine-learning-meets-egovid/>
 - **Attended Conferences**: AAAI Conference on Artificial Intelligence 2017, San Francisco, California, USA
Asilomar 2016, Pacific Grove, California, USA
UbiComp 2016, Heidelberg, Germany
- **Korea Supercomputing Challenge (KSC 2015)** KISTI Supercomputing Education Center
MPI parallel computing competition: won 5th place Oct 2015
- **HeXATHON** UNIST, NAVER Corp.
QR code waiting system implemented with Raspberry Pi: won 1st place May 2015
- **Korea International Science and Engineering Fair (KISEF 2012)** National Science Museum
Exhibited and Demonstrated PowerUpdater2 at Daejeon Convention Center. Jan 2012
- **Korea Olympiad in Informatics (KOI 2011)** National Information Society Agency
Demonstrated PowerUpdater2: won bronze medal. Sep 2011

¹Students who have shown especially good behaviour or enhanced the university's honour can be given a contribution award. The contribution award winner shall be selected by deliberation of the Committee based on recommendations from the head of the school (department) in each school (department). In 2018, among 704 undergraduates from various departments, 6 people have been awarded.

- **Sparkware (<http://sparkware.co.kr>)** Personal
Personal Website Management (XpressEngine), Program Development (C++, MFC) *May 2010 – Aug 2013*
 - **PowerUpdater, PowerUpdater2:** An updater program that can be customised by users easily with GUI menu.
 - **Waviano:** Playing piano with keyboard using multiple music files.
 - **PowerRegister:** An customisable activation program for Windows application programmers.
 - **DirectoryDateName:** Easily make directory with name containing current date.
 - **Flash programs:** Simple Flash programs.

TEACHING

- **Marker of Introductory Applied Machine Learning** The University of Edinburgh
Marking coursework submissions for the MSc module. *Oct 2020 –*
- **Demonstrator/marker of Advanced Vision** The University of Edinburgh
Ran lab sessions for the Advanced Vision (MSc module). *Jan 2020 – May 2020*
- **Demonstrator of Machine Learning Practical** The University of Edinburgh
Ran lab sessions for the Machine Learning Practical (MSc module). *Sep 2019 – Dec 2019*
- **Tutor of Object-Oriented Programming** The University of Edinburgh
Ran 2 tutorial sessions of OOP Java programming tutorials with Eclipse IDE. *Jan 2019 – Apr 2019*
 - Nominated for the **Best Student Who Tutors Award**
- **Tutor of Imperative Programming** The University of Edinburgh
Ran tutorial sessions of Java programming with Greenfoot IDE. *Nov 2018*
- **Tutor of Engineering Programming I** UNIST
Ran tutorial sessions for 3 terms. *Sep 2014 – Dec 2015*

SKILLS AND KNOWLEDGE

Deep learning, Computer vision, Signal processing, Linux server buildup, Machine integration, Web development, Product design

LANGUAGES, FRAMEWORKS AND TOOLS

C · C++ · Python · Linux Bash · PyTorch / TensorFlow / Keras (Machine learning) · MPI (Parallel programming) · CUDA (GPU parallel programming) · MATLAB · OpenCV · Git (Version control) · Docker · NVIDIA Jetson TX2 (Embedded board and Linux) · Raspberry Pi (IoT Linux) · MFC (Windows programming) · Java · HTML · PHP · MySQL / Maria DB · R · Flash action script · Processing · NXT Robot C · Xpress Engine(Website) · Wordpress(Website) · L^AT_EX