

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

- K Kim, D Moltisanti, O Mac Aodha, L Sevilla-Lara, “An Action Is Worth Multiple Words: Handling Ambiguity in Action Recognition”, *33rd British Machine Vision Conference 2022, BMVC 2022*
- K Kim, SN Gowda, O Mac Aodha, L Sevilla-Lara, “Capturing Temporal Information in a Single Frame: Channel Sampling Strategies for Action Recognition”, *33rd British Machine Vision Conference 2022, BMVC 2022*
- SN Gowda, L Sevilla-Lara, K Kim, F Keller, M Rohrbach, “A new split for evaluating true zero-shot action recognition”, *DAGM German Conference on Pattern Recognition, 2021*
- 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)]
<https://arxiv.org/pdf/1708.00999.pdf>
- **Patent**: Falling out of hair management system
<https://patents.google.com/patent/KR20140094301A/en>

EXPERIENCE · AWARDS

- **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*




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.

- **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*
- **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 SUPPORT

- **Marker of Introductory Applied Machine Learning** The University of Edinburgh
Marking coursework submissions for the MSc module. Oct 2020 – Jan 2021
- **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

SIDE PROJECTS

- **Open Source Project Co-Maintainer:  Nvim Treесitter Textobjects** NeoVim Tree-Sitter
Automated testing etc. Dec 2022 –
- **Terminal-based IDE** NeoVim & Tmux
 Treemux (Tmux file tree)  Jupynium (Jupyter Notebook with Vim) Dec 2022 –

LANGUAGES, FRAMEWORKS AND TOOLS

C · C++ · Python · Lua · 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) · \LaTeX