

# TAEWON YOO

twyoo@khu.ac.kr ◇ twy00.github.io

## EDUCATION

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**Kyung Hee University**

*Bachelor of Software Convergence, Data Science Track*

**Yongin, Republic of Korea**

*Mar. 2017 -*

## EXPERIENCE

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**Research Assistant, University of Seoul**

*Human-Centered Artificial Intelligence Lab (HCAIL)*

**Seoul, Republic of Korea**

*Jun. 2020 - Present*

- Developed and evaluated a mathematical model that classify deep learning lecture videos on YouTube according to its difficulties
- Supervisor: Prof. Hyunggu Jung

**Intern, KIST Europe Forschungsgesellschaft mbH**

*Smart Convergence Group*

**Saarbrücken, Germany**

*Aug. 2019 - Jan. 2020*

- Developed and evaluated an adversarial generative models to enhance classification accuracy in data imbalance situation

## PUBLICATIONS

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### INTERNATIONAL CONFERENCE PAPERS

- [ia.2] **T. Yoo**, H. Jeong, D. Lee, H. Jung. “LectYS: A System for Summarizing Lecture Videos on YouTube”. *To appear In Proceedings of the 26th International Conference on Intelligent User Interfaces (IUI)*, Virtual, April 2021.
- [ia.1] **T. Yoo**, H. Jung. “Category Classification of Educational Videos on YouTube through Machine Learning Approaches using Video Titles”. *In Proceedings of the 2019 US-Korea Conference on Science, Technology and Entrepreneurship (UKC)*, Chicago, IL, USA, August 2019.

### DOMESTIC CONFERENCE PAPERS

- [d.2] **T. Yoo**, H. Jung. “Category Classification of Educational Videos on YouTube through Machine Learning Approaches”. *In Proceedings of Korea Computer Congress (KCC) 2019*, Jeju, Korea, June 2019.
- [d.1] **T. Yoo**, H. Jung. “Needs Analysis Based on Vlogging Career”. *In Proceedings of the HCI Korea 2019 Conference*, Jeju, Korea, February 2019.

## EXTRACURRICULAR ACTIVITIES

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**Student Volunteer, Institute of Electrical and Electronics Engineers**

*The IEEE Student Volunteer Program*

*Aug. 2020 -*

**Teaching Assistant, Kyung Hee University**

*SWCON104 Web and Python Programming*

*Spring 2019, 2020*

- Assisted on answering Python programming questions in and out of the class

**Course Assistant, Kyung Hee University**

*GEE1952 Major Exploring Program*

*Fall 2018*

- Marked attendance and assignments, and managed schedule with invited speakers

**Student Mentor, Kyung Hee University**

*GEE1920 Kyung Hee Freshmen Seminar*

*Spring 2018, 2019*

- Mentored 22 freshmen students, marked attendance and graded assignments

## **Vice President, Kyung Hee University**

*Student Government Association, Department of Software Convergence*

*2018*

- Collaborated with college government association, and organized various campus events with 20 members

## **Software Education Volunteer**

*Software Education Volunteering Program, Code Club Korea*

*Sep. 2017 - Nov. 2017*

*Software Education Volunteering Program, Kyung Hee University*

*Spring 2019*

- Instructed “Python Programming with Raspberry Pi” and “Basic Scratch Programming” classes for elementary school students and their parents.

## **HONORS AND AWARDS**

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### **The National Scholarship for Science and Engineering**

*Full tuition fee for 4 semesters, Korea Student Aid Foundation*

*2019*

### **National Scholarship for Excellence in Software**

*12,000,000 KRW, National Program of Excellence in Software*

*2019*

### **Kyung Hee Humanitas Scholarship**

*2,100,000 KRW, Humanitas College, Kyung Hee University*

*2018, 2019*

### **Bright Society Scholarship**

*4,000,000 KRW, Department of Electronics and Information, Kyung Hee University*

*2018*

## **TECHNICAL SKILLS**

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### **Programming Languages**

Python3 and C++

### **Software & Tools**

Tensorflow, Docker, L<sup>A</sup>T<sub>E</sub>X, Google Docs, and MS Office Program

### **Operating System**

Linux, macOS, and Microsoft Windows

## **PROFESSIONAL MEMBERSHIP**

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### **Student Member**

Institute of Electrical and Electronics Engineers (IEEE)