Taewon Yoo

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EDUCATION

Kyung Hee University <div align="right">**Yongin, Republic of Korea**</div>
Bachelor of Software Convergence, Data Science <div align="right">*Mar. 2017 - Present*</div>

WORK EXPERIENCE

Research Intern, University of Seoul <div align="right">**Seoul, Republic of Korea**</div>
Human-Centered Artificial Intelligence Lab (HCAIL) <div align="right">*Jun. 2020 - Present*</div>
- Developed a visual analytics tool supporting ML developers to consider carbon emissions in development
- Developed a smartphone application for dietary assessment for older adults
- Advisor: Prof. Hyunggu Jung

Software Engineer, Penta Security Inc. (alternative military service) <div align="right">**Seoul, Republic of Korea**</div>
Mobile Server Development Team <div align="right">*Aug. 2021 - Jul. 2023*</div>
- Developed a real-time application to calculate taxi fares using geospatial data

Research Intern, KIST Europe Forschungsgesellschaft mbH <div align="right">**Saarbrücken, Germany**</div>
Smart Convergence Group <div align="right">*Aug. 2019 - Jan. 2020*</div>
- Developed and evaluated a generative adversarial network to solve data-imbalance problem
- Advisor: Dr. Sungho Suh

PUBLICATIONS

International Journal Papers

1. S. Na, S. Park, J. Jun, H. Jeong, **T. Yoo**, M. Chun, H. Lee, H. Lee, H. Jung. "SUV: Students' Understanding Visualizer to Support Instructors in Synchronous Online Lectures". *IEEE Access*, August 2023. DOI: 10.1109/ACCESS.2023.3303030

2. M. Chun, H. Jeong, H. Lee, **T. Yoo**, H. Jung. "Development of Korean Food Image Classification Model Using Public Food Image Dataset and Deep Learning Methods". *IEEE Access*, December 2022. DOI: 10.1109/ACCESS.2022.3227796

International Conference Papers

1. **T. Yoo**, H. Lee, S. Oh, H. Kwon, H. Jung. "Visualizing the Carbon Intensity of Machine Learning Inference for Image Analysis on TensorFlow Hub". *In Companion Publication of the 2023 Conference on Computer-Supported Cooperative Work and Social Computing (CSCW'23 Companion). ACM,* Minneapolis, MN, USA, October 2023. DOI: 10.1145/3584931.3606959

2. **T. Yoo**, M. Chun, Y. Bae, S. Kwon, H. Jung. "Exploring the Community of Model Publishers on TensorFlow Hub". *In Companion Publication of the 2022 Conference on Computer Supported Cooperative Work and Social Computing (CSCW'22 Companion). ACM,* Virtual, October 2022. DOI: 10.1145/3500868.3559477

3. **T. Yoo**, H. Jeong, D. Lee, H. Jung. "LectYS: A System for Summarizing Lecture Videos on YouTube". *In Proceedings of the 26th International Conference on Intelligent User Interfaces (IUI'21 Companion). ACM,* Virtual, April 2021. DOI: 10.1145/3397482.3450722

4. **T. Yoo**, H. Jung. "Category Classification of Educational Videos on YouTube through Machine Learning Approaches using Video Titles". *In Proceedings of the US-Korea Conference on Science, Technology and Entrepreneurship (UKC)*, Chicago, IL, USA, August 2019.

Domestic Conference Papers

1. **T. Yoo**, H. Jung. "Exploring the Community of Sustainable AI Developers on Hugging Face". *In Proceedings of the HCI Korea 2024 Conference*, Hongcheon, Republic of Korea, January 2024. **(BEST PAPER AWARDS)**

2. **T. Yoo**, D.Lee. "Video Summarization with Unpaired Dataset and Adversarial Network". *In Proceedings of Korea Software Congress (KSC) 2023*, Busan, Republic of Korea, December 2023.

3. **T. Yoo**, H. Jung. "Category Classification of Educational Videos on YouTube through Machine Learning Approaches". *In Proceedings of Korea Computer Congress (KCC) 2019*, Jeju, Republic of Korea, June 2019.

4. **T. Yoo**, H. Jung. "Needs Analysis Based on Vlogging Career". *In Proceedings of the HCI Korea 2019 Conference*, Jeju, Republic of Korea, February 2019.

EXTRACURRICULAR ACTIVITIES

Student Volunteer
CSCW'21,'22,'23, RecSys'21,'22, FAccT'22, IUI'21, ASSETS'21, DIS'21

Teaching Assistant
SWCON104 Web and Python Programming, Kyung Hee University   *Spring 2019, 2020, 2021*

Course Assistant
GEE1952 Major Exploring Program, Kyung Hee University   *Fall 2018*
GEE1920 Freshmen Seminar, Kyung Hee University   *Spring 2018, 2019*

Vice President of Student Association
Department of Software Convergence, Kyung Hee University   *2018*

HONORS AND AWARDS

Best Paper Awards
100,000 KRW, HCI Korea 2024   *2024*

Excellence Prize
5,000,000 KRW, Hyundai AutoEver (Barrier Free App Development Contest)   *2022*

The National Scholarship for Science and Engineering
Full tuition fee for 4 semesters (17,160,000 KRW), Korea Student Aid Foundation   *2019*

The National Scholarship for Excellence in Software
12,000,000 KRW, National Program of Excellence in Software   *2019*