

Yewon Kim

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RESEARCH INTERESTS

Human-Centered AI, Human-AI Interaction, Natural Language Processing

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) *Mar. 2022 - Feb. 2024 (Expected)*
M.S. in Electrical Engineering *Daejeon, Korea*
Advisor: Sung-Ju Lee

Korea Advanced Institute of Science and Technology (KAIST) *Mar. 2017 - Feb. 2022*
B.S. in Electrical Engineering *Daejeon, Korea*
Major GPA of 4.02/4.3
Cum Laude

Stanford University *Jun. 2019 - Aug. 2019*
Undergraduate Summer Visitor *Stanford, CA*
Selected Courses: CS221 Artificial Intelligence, CS229 Machine Learning
GPA of 3.87/4.3

HONORS AND AWARDS

Students with Outstanding Questions, KAIST *Jul. 2022*
In recognition of the students who asked challenging and creative questions during lectures.
CS592B Sensor Data Science

Whole Person Development Award (Alumni Association Chairperson Prize), KAIST *Feb. 2022*
Honor for top 5 (0.7%) out of 695 students, who demonstrated outstanding performances
in various activities as well as in grades. Awarded at the commencement ceremony.

Engineering Innovator Award, College of Engineering, KAIST *Sep. 2021*
In recognition of the outstanding engineering accomplishments.

Grand Prix Prize in Undergraduate Research Participation (URP) Program, KAIST *Aug. 2021*
DAPPER: Training-Free Domain Adaptation Performance Estimation in Mobile Sensing.

National Science and Engineering Undergraduate Scholarship *Fall 2020*
Merit-based scholarship awarded by Korea Student Aid Foundation.

Department Honors Scholarship, KAIST *Spring 2020*
Awarded to top 3 (0.4%) out of 800+ students in School of Electrical Engineering.
Salutatorian

Dean's List, KAIST *Spring 2020*
Awarded to top 3% among 2,900+ students in College of Engineering.

Leadership Mileage Certificate, KAIST *2020*
Honor for top 3% among 3,600+ students with top achievements in leadership activities
including volunteering and campus activities.

PUBLICATIONS

Preprints

[pr.1] Taesik Gong, **Yewon Kim**, Adiba Orzikulova, Yunxin Liu, Sung Ju Hwang, Jinwoo Shin, and Sung-Ju Lee. "DAPPER: Performance Estimation of Domain Adaptation in Mobile Sensing." arXiv 2021.

Conference & Journal Papers

[c.2] **Yewon Kim**, Taesik Gong, and Sung-Ju Lee. "Tailoring Interactions: Exploring the Opportune Moment for Remote Computer-mediated Interactions with Home-alone Dogs." Conference on Human Factors in Computing Systems (CHI) Late-Breaking Work, 2023. (*Acceptance Rate: 34%*)

[c.1] Taesik Gong, Jongheon Jeong, Taewon Kim, **Yewon Kim**, Jinwoo Shin, and Sung-Ju Lee. "NOTE: Robust Continual Test-time Adaptation Against Temporal Correlation." Conference on Neural Information Processing Systems (NeurIPS), 2022. (*Acceptance Rate: 25.6%*)

RESEARCH EXPERIENCE

KAIST Networking and Mobile Systems Lab

Graduate Student, Advised by Sung-Ju Lee.

Jul. 2020 - Present

Daejeon, Korea

- **Performance Estimation of Domain Adaptation in Mobile Sensing** [pr.1]
Identified and implemented baselines for the evaluation of the system. Enabled on-device inference of the system and baselines. Assisted the design of the performance estimation framework for domain adaptation in deep mobile sensing. Won Grand Prix Prize in KAIST Undergraduate Research Participation(URP) program.
- **Robust Continual Test-time Adaptation** [c.1]
Designed and implemented a non-iid stream of data using Dirichlet distribution on CIFAR-10-C and CIFAR-100-C. Led experiments on NLP data using variations of BERT during the rebuttal process and discussed the limitations of the proposed method on Transformer-based models. Designed figures in the paper. Assisted the ideation process in the early stage of the project.
- **Remote Computer-mediated Interactions with Home-alone Dogs** [c.2]

KAIST Data Mining Lab

Undergraduate Researcher, Advised by Kijung Shin.

Sep. 2019 - Jun. 2020

Daejeon, Korea

Research on recommender systems for progressively increasing user's level of expertise.

KAIST Data Intelligence Lab

Undergraduate Researcher, Advised by Steven Euijong Hwang.

Jun. 2018 - Dec. 2018

Daejeon, Korea

Implemented labeling functions for detecting lines and curves in private metal image dataset.

TEACHING EXPERIENCE

Programming Structures for Electrical Engineering (EE209)

Teaching Assistant at KAIST (Prof. Sung-Ju Lee)

Spring 2023

Mobile Computing, Sensing, Learning, and Interactions (EE595)

Head Teaching Assistant at KAIST (Prof. Sung-Ju Lee)

Fall 2022

Computer Networks (EE323)

Teaching Assistant at KAIST (Prof. Sung-Ju Lee)

Spring 2021, Spring 2022

PROFESSIONAL SERVICE

Paper reviewing

CHI LBW 2023

Student Volunteer

TEI 2022

Local Community

- **HCI@KAIST Student Steering Committee** *Feb. 2022 - Present*
- **Science Mentoring** *May 2018 - Aug. 2018*
Organized science mentoring program and recruited 20 undergraduate students. Boryeong, Korea
Developed teaching materials and taught 100 students in farming and fishing villages.
- **Programming Mentoring** *Jan. 2018 - Feb. 2018*
Designed and led Scratch class for 30 students in farming and fishing villages. Boryeong, Korea

INVITED TALKS

Career Development Program guest lecture, Sangsan High School [[slides](#)] *Jul. 2022*
The Future of AI: How AI Will Shape the World

SELECTED PRESS

KAIST Research Magazine, Developing Technologies that Benefit Everyone. [[article](#)] *Nov. 2021*

EXTRACURRICULAR ACTIVITIES

Double bass and violin player in KAIST Orchestra *Mar. 2018 - Dec. 2020*
A member of executives in 2019.

KAIST Undergraduate Tennis Club *Mar. 2017 - Dec. 2018*
A member of executives in 2018.

KAIST Global Student Volunteers *Sep. 2017 - Aug. 2018*

Buddy program for exchange students, KAIST *Fall 2017*