

# Yewon Kim

✉ yewon.e.kim@kaist.ac.kr    🏠 yewon-kim.com

## RESEARCH INTERESTS

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

## EDUCATION

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<b>Korea Advanced Institute of Science and Technology (KAIST)</b> M.S. in Electrical Engineering Advisor: Sung-Ju Lee	<i>Mar. 2022 - Present</i> Daejeon, Korea
<b>Korea Advanced Institute of Science and Technology (KAIST)</b> B.S. in Electrical Engineering Major GPA of 4.02/4.3 <i>Cum Laude</i>	<i>Mar. 2017 - Feb. 2022</i> Daejeon, Korea
<b>Stanford University</b> Undergraduate Summer Visitor Selected Courses: CS221 Artificial Intelligence, CS229 Machine Learning GPA of 3.87/4.3	<i>Jun. 2019 - Aug. 2019</i> Stanford, CA

## HONORS AND AWARDS

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<b>Students with Outstanding Questions, KAIST</b> In recognition of the students who asked challenging and creative questions during lectures. CS592B Sensor Data Science	<i>Jul. 2022</i>
<b>Whole Person Development Award (Alumni Association Chairperson Prize), KAIST</b> 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.	<i>Feb. 2022</i>
<b>Engineering Innovator Award, College of Engineering, KAIST</b> In recognition of the outstanding engineering accomplishments.	<i>Sep. 2021</i>
<b>Grand Prix Prize in Undergraduate Research Participation (URP) Program, KAIST</b> DAPPER: Training-Free Domain Adaptation Performance Estimation in Mobile Sensing.	<i>Aug. 2021</i>
<b>National Science and Engineering Undergraduate Scholarship</b> Merit-based scholarship awarded by Korea Student Aid Foundation.	<i>Fall 2020</i>
<b>Department Honors Scholarship, KAIST</b> Awarded to top 3 (0.4%) out of 800+ students in School of Electrical Engineering. <i>Salutatorian</i>	<i>Spring 2020</i>
<b>Dean's List, KAIST</b> Awarded to top 3% among 2,900+ students in College of Engineering.	<i>Spring 2020</i>
<b>Leadership Mileage Certificate, KAIST</b> Honor for top 3% among 3,600+ students with top achievements in leadership activities including volunteering and campus activities.	<i>2020</i>

## PUBLICATIONS

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### Preprints

- [pr.2] Taesik Gong, Jongheon Jeong, Taewon Kim, **Yewon Kim**, Jinwoo Shin, and Sung-Ju Lee. "[Robust Continual Test-time Adaptation: Instance-aware BN and Prediction-balanced Memory](#)." arXiv 2022.
- [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.

## RESEARCH EXPERIENCE

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### KAIST Networking and Mobile Systems Lab

*Jul. 2020 - Present*

*Graduate Student, Advised by Sung-Ju Lee.*

*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.
- **Robust Continual Test-time Adaptation** [pr.2]  
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.

### KAIST Data Mining Lab

*Sep. 2019 - Jun. 2020*

*Undergraduate Researcher, Advised by Kijung Shin.*

*Daejeon, Korea*

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

### KAIST Data Intelligence Lab

*Jun. 2018 - Dec. 2018*

*Undergraduate Researcher, Advised by Steven Euijong Hwang.*

*Daejeon, Korea*

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

## TEACHING EXPERIENCE

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### Teaching Assistant, KAIST

*Spring 2021, Spring 2022*

EE323 Computer Networks (Prof. Sung-Ju Lee)

## SERVICES

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### 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

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

## SELECTED PRESS

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

## EXTRACURRICULAR ACTIVITIES

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**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*