

# Yewon Kim

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## 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.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.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.

## 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. 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.

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

*Fall 2022*

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

### Computer Networks (EE323)

*Spring 2021, Spring 2022*

Teaching Assistant at KAIST (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*