Yewon Kim

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RESEARCH INTERESTS

Human-AI Interaction, Creativity Support, Music AI, Writing with AI

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST)   *Mar. 2024 - Present*
Ph.D. in Electrical Engineering   Daejeon, Korea
Advisor: Sung-Ju Lee

Korea Advanced Institute of Science and Technology (KAIST)   *Mar. 2022 - Feb. 2024*
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
Graduated with Honors

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

PUBLICATIONS

(P: Preprint, C: Conference&Journal, W: Workshop&Demos, ∗: Equal contribution, †: Equal senior role)

[P2] AMUSE: Human-AI Collaborative Songwriting with Multimodal Inspirations
Yewon Kim, Sung-Ju Lee, Chris Donahue
Under Review at CHI 2025

[P1] How Non-native English Speakers Use, Assess, and Select AI-Generated Paraphrases with Information Aids
Yewon Kim, Thanh-Long V. Le, Donghwi Kim, Mina Lee[†], Sung-Ju Lee[†]
Preprint

[W2] Hookpad Aria: A Copilot for Songwriters
Chris Dohanue, Shih-Lun Wu, **Yewon Kim**, Dave Carlton, Ryan Miyakawa, John Thickstun
International Society for Music Information Retrieval (ISMIR) Late Breaking Demos 2024

[C5] A Design Space for Intelligent and Interactive Writing Assistants
Mina Lee[∗], Katy Gero[∗], John Joon Young Chung[∗] et al. (30+ authors)
§4.2 User: Katy Gero, **Yewon Kim**, Senjuti Dutta, Lila Shroff, Disha Shrivastava, John Joon Young Chung,
Eugenia H. Rho
Conference on Human Factors in Computing Systems (CHI) 2024

[W1] Towards Explainable AI Writing Assistants for Non-native English Speakers
Yewon Kim, Mina Lee, Donghwi Kim, Sung-Ju Lee
CHI 2023 Workshop on Intelligent and Interactive Writing Assistants (In2Writing)

[C4] SoTTA: Robust Test-Time Adaptation on Noisy Data Streams
Taesik Gong[∗], **Yewon Kim**[∗], Taeckyung Lee[∗], Sorn Chottananurak, Sung-Ju Lee
Conference on Neural Information Processing Systems (NeurIPS) 2023

[C3] DAPPER: Label-Free Performance Estimation after Personalization for Heterogeneous Mobile Sensing
Taesik Gong, **Yewon Kim**, Adiba Orzikulova, Yunxin Liu, Sung Ju Hwang, Jinwoo Shin, Sung-Ju Lee
Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT) 2023

[C2] Tailoring Interactions: Exploring the Opportune Moment for Remote Computer-mediated Interactions with Home-alone Dogs
Yewon Kim, Taesik Gong, Sung-Ju Lee
Extended Abstracts of ACM CHI Conference on Human Factors in Computing Systems (CHI EA) 2023

[C1] NOTE: Robust Continual Test-time Adaptation Against Temporal Correlation
Taesik Gong, Jongheon Jeong, Taewon Kim, **Yewon Kim**, Jinwoo Shin, Sung-Ju Lee
Conference on Neural Information Processing Systems (NeurIPS) 2022
♁ *Qualcomm Innovation Fellowship Finalist*

RESEARCH EXPERIENCE

KAIST Networking and Mobile Systems Lab *Jul. 2020 - Present*
Undergraduate Intern and *Graduate Student*, Advised by Dr. Sung-Ju Lee. Daejeon, Korea
Research on AI writing assistants for non-native English speakers. (Co-advised by Dr. Mina Lee) [W1, P1, C5]
Research on domain adaptation frameworks in real-world data streams. (Co-advised by Dr. Taesik Gong) [C1, C3, C4]
Research on computer-mediated interactions with domestic dogs. (Co-advised by Dr. Taesik Gong) [C2]

CMU Generative Creativity Lab *Apr. 2024 - Sep. 2024*
Visiting Student Researcher, Advised by Chris Donahue. Pittsburgh, PA, USA
Research on creativity support systems for songwriters. [W2, P2]

KAIST Data Mining Lab *Sep. 2019 - Jun. 2020*
Undergraduate Researcher, Advised by Kijung Shin. Daejeon, Korea
Designed and implemented a recommender system 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 industry metal image dataset.

HONORS AND AWARDS

Special Recognition for Outstanding Reviews *2024*
CHI 2024

CVPR 2023 Art Gallery *Apr. 2023*
Works accepted to CVPR 2023 Art Gallery have been shown as part of a series of
looping videos that played on displays throughout the conference.

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

Graduate of the Year Award (Alumni Association Chairperson Prize), KAIST *Feb. 2022*
Honor for top 5 (0.7%) out of 695 graduates, 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.

TEACHING EXPERIENCE

Computer Networks (EE323)   *Spring 2021, Spring 2022, Spring 2024*
Teaching Assistant at KAIST (Instructor: Dr. Sung-Ju Lee)

Data Structures and Algorithms for Electrical Engineering (EE205)   *Fall 2023*
Teaching Assistant at KAIST (Instructor: Dr. Ian Oakley)

Programming Structures for Electrical Engineering (EE209)   *Spring 2023*
Teaching Assistant at KAIST (Instructor: Dr. Sung-Ju Lee)

Mobile Computing, Sensing, Learning, and Interactions (EE595)   *Fall 2022*
Head Teaching Assistant at KAIST (Instructor: Dr. Sung-Ju Lee)

SERVICES

Academic Services

- **Reviewer**: CHI 2024-2025 / MobiCom 2022-2025 / CHI EA 2023-2024 / MobiSys 2021-2024 / INFOCOM 2022
- **Student Volunteer**: TEI 2022

Outreach and Leadership

- **HCI@KAIST Student Steering Committee**   *Feb. 2022 - Dec. 2022*
  Organized workshops, talks, and social events for 400+ members in HCI@KAIST community.
- **Science Mentoring**   *May 2018 - Aug. 2018*
  Organized and led science mentoring classes for 100+ middle school students in rural communities.
- **Programming Mentoring**   *Jan. 2018 - Feb. 2018*
  Designed and led Scratch class for 30 middle school students in rural communities.
- **KAIST Buddy Program**   *Aug. 2017 - Dec. 2017*
  Helped four international students adjust to campus life.

INVITED TALKS

Younghoon Internship Program, Younghoon International Middle School   *Jul. 2023*
The Role of AI in Creative Works

Career Development Program guest lecture, Sangsan High School   *Jul. 2022*
The Future of AI: How AI Will Shape the World

EXTRACURRICULAR ACTIVITIES

Double bass and violin player in KAIST Orchestra   *Mar. 2018 - Jan. 2023*
Link to selected performances: [link]
Planned and executed social events for 80+ members as an event committee chair.

KAIST Undergraduate Tennis Club   *Mar. 2017 - Dec. 2018*
Planned and executed social events and KAIST Open tournament as an event committee chair.

KAIST Global Student Volunteers   *Sep. 2017 - Aug. 2018*
Organized and led volunteer activities for underprivileged students and seniors in Korea.

REFERENCES

Sung-Ju Lee, Endowed Chair Professor at KAIST
✉ Email: profsj@kaist.ac.kr

Mina Lee, Assistant Professor at the University of Chicago
✉ Email: mnlee@cs.uchicago.edu

Chris Donahue, Assistant Professor at Carnegie Mellon University
✉ Email: chrisdonahue@cmu.edu

Taesik Gong, Assistant Professor at UNIST
✉ Email: taesik.gong@unist.ac.kr