

YEONSUN YANG

Daegu, Republic of Korea

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Research Interests

Human-Computer Interaction (HCI), Human-AI Interaction (HAI), AI in Education (AIEd), Cognitive Learning Technologies, Gamification, Crowdsourcing, Affective Computing, Facial Emotion Recognition

Education

DGIST

M.S.-Ph.D. Integrated Program in Electorical Engineering and Computer Science

February 2022 - Present

Advisor : Jean Y. Song

Inha University

B.S. in Computer Engineering

February 2017 - February 2022

Experience

Designing Intelligence Augmentation Group (DIAG), Yonsei University

Graduate Student

January 2022 - Present

Advisor : Jean Y. Song

- Exploring human-computer interaction to address complex computational and social problems by developing intelligent systems that integrate the power of both human and machine intelligence.

NAVER AI Lab

Research Intern

March 2025 - Sep 2025

Advisor : Young-Ho Kim

- Conducting research on a contextualized learning system to help non-native information workers practice English used in real work settings.

Data-Intensive Computing Systems Lab (Data Lab), DGIST

Undergraduate Research Intern

August 2021 - January 2022

Advisor : Sungjin Lee

- Explored file system and storage architecture for solid-state drives (SSDs).

Genomics & Bioinformatics Lab (Han Lab), Seoul National University

Undergraduate Research Intern

Winter 2020

Advisor : Buhm Han

Mentor: Cue Hyunkyu Lee

- Performed gene expression prediction using Genotype-Tissue Expression (GTEx) data.

Data-Intensive Computing Systems Lab (Data Lab), DGIST

Undergraduate Research Intern

Summer 2019

Advisor : Sungjin Lee

- Built a Bloom filter that provides a space-efficient probabilistic data structure utilizing hashing techniques.

Awards & Honors

DGIST National Scholarship

Fully funded by the DGIST National Scholarship (approx. \$26900).

Feburary 2022

Lotte Mentoring Scholarship

Corporate scholarship awarded to those who volunteer in youth mentoring programs (>50hours/year).

August 2019 - August 2021

Inha Honor Student Scholarship

2018, Spring 2020, Spring 2021

Undergraduate scholarship awarded to the top 4% of students in their respective departments.

Inha Outstanding Engineering Student Award

2018

Undergraduate scholarship awarded to the top 4% of students of the College of Engineering.

Publication

LingoQ: Bridging the Gap between ESL Learning and Work through AI-Generated Work-Related Quizzes [Paper](#)

[Yeonsun Yang](#), Sang Won Lee, Jean Y. Song, Sangdoo Yun, Young-Ho Kim

arXiv 2025

Easy Come, Easy Go? Examining the Perceptions and Learning Effects of LLM-based Chatbot in the Context of Search-as-Learning [Paper](#)

[Yeonsun Yang](#), Ahyeon Shin, Mincheol Kang, Jiheon Kang, Xu Wang, Jean Y. Song

arXiv 2024

Caught by Surprise, Caught by Culture: Bridging Facial Emotion Recognition and Interpretation of Surprise Across Cultures

Ha Eun Jang, Yeonsun Yang, Jean Y. Song

In Proceedings of the 30th International Conference on Intelligent User Interfaces - IUI2026 (Conditionally Accepted)

Find the Bot!: Gamifying Facial Emotion Recognition for Both Human Training and Machine Learning Data Collection [Paper](#)

[Yeonsun Yang](#), Ahyeon Shin, Nayoung Kim, Huidam Woo, John Joon Young Chung, Jean Y. Song

In Proceedings of the ACM/SIGCHI Conference on Human Factors in Computing Systems - CHI2024

Teaching & Mentoring

Undergraduate Group Research Mentoring Program

2023, 2024

Mentoring UGRP (Undergraduate Group Research Program) team at DGIST.

Dalseong Out-of-School Youth GED Mentoring Program

June 2022 - April 2024

Teaching science subjects for the high school equivalency exam to out-of-school youth in the community.

BE101a: Introduction to Programming

Fall 2022, Fall 2023

Introductory-level course required for all freshmen at DGIST. Assisted students during lab sessions.

Academic Services

Program Committee

ACM IUI 2026

ACM C&C 2025

Reviewer

ACM IUI'26 (Outstanding Review x 1)

ACM CHI'26 (Outstanding Review x 1)

ACM CHI PLAY'25

ACM IMWUT'25

ACM IUI'25

ACM C&C'24-25

ACM CHI LBW'23-25 (Outstanding Review x 1)

Student Volunteer

SIGCHI Korea Local Chapter 2024

ACM CHI 2024

DGIST EECS Student Conference & Happy Hour 2023

Invited Talks

HCI Korea 2025 Invited Papers Program from 2024 SIGCHI Top-Conferences

February 2025

Title: Find the Bot! Gamifying Facial Emotion Recognition for Both Human Training and Machine Learning Data Collection

Guest Lecture at Yonsei University IID2019 Introduction to Social Computing

November 2024

Title: HCI Research and Graduate Life

Technical Strengths

Computer Languages & Tools - C/C++, Python, Javascript, HTML, CSS, R, Django, WebSocket