

# 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 Electrical 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

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### 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

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### 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

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### 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**

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### **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**

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