Yeonsun Yang

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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   **February 2022 - Present**
Ph.D. in Electoral Engineering and Computer Science   *Advisor : Jean Y. Song*

Inha University   **February 2017 - February 2022**
B.S. in Computer Engineering

Experience

DGIST Intelligence Augmentation Group (DIAG), DGIST   **Feburary 2022 - Present**
Graduate Student   *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.

Data-Intensive Computing Systems Lab (Data Lab), DGIST   **August 2021 - January 2022**
Research Intern   *Advisor : Sungjin Lee*

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

Genomics & Bioinformatics Lab (Han Lab), Seoul National University   **Winter 2020**
Research Intern   *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   **Summer 2019**
Research Intern   *Advisor : Sungjin Lee*

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

Awards & Honors

DGIST National Scholarship   **Feburary 2022**
Fully funded by the DGIST National Scholarship (approx. $26900).

Lotte Mentoring Scholarship   **August 2019 - August 2021**
Corporate scholarship awarded to those who volunteer in youth mentoring programs (>50hours/year).

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

Can We Delegate Learning to Automation?: A Comparative Study of LLM Chatbots, Search Engines, and Books 📄 *Paper*
<u>Yeonsun Yang</u>, Ahyeon Shin, Mincheol Kang, Jiheon Kang, Jean Y. Song
arXiv 2024

Find the Bot!: Gamifying Facial Emotion Recognition for Both Human Training and Machine Learning Data Collection 📄 *Paper* 🎧 *Project*
<u>Yeonsun Yang</u>, 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

Reviewer
C&C 2024
CHI 2024 Late Breaking Work (Special Recognitions for Outstanding Reviews)
CHI 2023 Late Breaking Work

Student Volunteer
SIGCHI Korea Local Chapter 2024
CHI 2024
DGIST EECS Student Conference & Happy Hour 2023

Technical Strengths

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