Jisu Kim

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EDUCATION

Georgia Institute of Technology (GT) Atlanta, GA
Master of Science in Human-Computer Interaction May 2025
Undergraduate Exchange Program in Computer Science

Korea Advanced Institute of Science and Technology (KAIST) Daejeon, Korea
Bachelor of Science in Computer Science, Minor in Artificial Intelligence August 2023
Double Major in Business and Technology Management

RESEARCH INTERESTS

My research interests lie at the intersection of artificial intelligence (AI) and human-computer interaction (HCI). I am focused on enhancing both productivity tools and creativity support tools in learning environments. My goal is to develop AI technologies that enrich the learning experience and enhance human-AI interaction. Driven by my passion for creating human-centric AI technologies, I am applying to Ph.D. programs for Fall 2025.

Keywords: HCI, Human-Centered AI, Human-AI Interaction, Human-AI Collaboration, Explainable AI

PUBLICATIONS

Engaging Learnersourcing with an AI Social Agent in Online Learning
Jisu Kim, Ashok Goel
L@S 2024 Workshop on Learnersourcing: Student-generated Content @ Scale.

One vs. Many: Comprehending Accurate Information from Multiple Erroneous and Inconsistent AI Generations
Yoonjoo Lee, Kihoon Son, Tae Soo Kim, **Jisu Kim**, John Joon Young Chung, Eytan Adar, Juho Kim
FAccT 2024: ACM Conference on Fairness, Accountability, and Transparency.

RESEARCH EXPERIENCE

Design Intelligence Lab (DILab) Atlanta, GA
Graduate Research Assistant; Advisor: Ashok Goel Jan. 2024 – Present
SAMI: AI-Mediated Social Interaction in online learning environments
- Designed a learnersourcing system using an AI social agent to enhance both intrinsic and extrinsic motivation of learners.

KAIST Interaction Lab (KIXLab) Daejeon, Korea
Undergraduate Researcher; Advisor: Juho Kim Jan. 2022 – Aug. 2023
StupidTutor: Understanding users' comprehension ability from inconsistent large language models (LLMs)
- Identified five types of output inconsistencies and designed a user study to understand users' interaction with LLMs.
- Spearheaded data analysis and visualization of a user study with 250+ participants using **Pandas** with **Python** and **R**.
- Developed the back-end for a user study interface using **SQLite** and **Flask**, collaborating with a front-end developer.

Grinder: Designing object detection based on human-AI collaboration in video commerce
- Led 20+ remote unmoderated usability tests encompassing both qualitative studies and quantitative benchmark studies.

GT Co-Well Computer Lab Atlanta, GA
Undergraduate Researcher; Advisor: Jennifer Kim Aug. 2022 – Dec.2022
Pioneering virtual reality and explainable AI for neurodiversity in remote work scenarios
- Contrasted and evaluated several AI models and created different styles of explanations to display AI predictions.

INDUSTRY EXPERIENCE

Tesla Inc. Fremont, CA
Incoming Machine Learning Intern Aug. 2024 – Jan. 2025
ML/NLP for data modeling, sales and customer analytics

Samsung SDS Co., Ltd. (Samsung Data System) Seoul, Korea
Machine Learning Intern Mar. 2021 – Aug. 2021

Developing a real-time background segmentation model for the video conference platform

- Developed a **PyTorch** model achieving 1.5x speed, 34% reduced loss, and 14% fewer parameters than the base model.
- Leveraged unlabeled dataset training by knowledge distillation, improving accuracy by transfer learning and fine-tuning.
- Integrated the developed model into Knox Meeting, a Samsung video conferencing platform.

Samsung Electronics Co., Ltd. Seoul, Korea

Data Science Intern Jul. 2020 – Aug. 2020

Data analysis of Key Performance Indicators (KPIs) from LTE Evolved NodeBs (eNBs) statistical data for KPI Modeling

- Extracted KPIs from LTE eNBs data and performed correlation analysis using **Pandas** with **Python**.
- Collaborated with machine learning developers to optimize LTE eNB KPI Modeling based on identified correlations.

PROJECTS

Understanding AI Use and Non-use in Slide Creation with Google Workspace

Project Leader; Advisor: Richmond Wong

Led the master's project on 'Understanding AI Use in Slide Creation Amongst Young Professionals in Tech Companies' in a partnership with Google Workspace; Project ongoing.

Seminars on Introduction to AI and Computer Vision at Samsung SDS

Speaker and Blog Editor | Blog (Korean)

Hosted a monthly team seminar at Samsung SDS titled 'Introduction to AI for Novices' and 'Background Segmentation using Deep Learning' with content published on a Medium blog, achieving over 2k views monthly and a total of 40k views. Authored a highly popular blog post on 'Image Classification', which ranks in the top 3 Google search results in Korean.

FORECST, Online Hackathon Website

Project Leader | GitHub | Demo

Directed a team of 4 in the end-to-end website development from ideation to deployment using **React.js** and **Firebase**, facilitating remote participation during the COVID-19 pandemic.

TEACHING EXPERIENCE

NAVER Connect Foundation. Seoul, Korea

Coding Coach May. 2021 – Jul. 2021

Mentored 25 college-level and above students in the Python Boost course.

LG Electronics Inc. Daejeon, Korea

Education Operations Mentor Mar. 2019 – Dec. 2019

Organized Arduino, CAD, and 3D printer classes for 48 students from multicultural families.

LEADERSHIP AND ACTIVITIES

Committee Member – GT International House	2022
Student President – KAIST School of Computing; Representative of 900 students.	2020
Project Leader – KAIST Mad Camp	2019
Mentor – Tanzania ICT Volunteers	2019
Team Leader – KAIST Badminton Club	2019

HONORS AND AWARDS

Outstanding Graduate Leadership Award	2024
Magna Cum Laude	2024
GT International House I-Spirit Award	2022
Mirae Asset Park Hyeun Joo Foundation Overseas Exchange Scholarship	2022
2nd Place, World Friends Korea ICT Volunteers Project Award	2019
2nd Place, KAIST Athletics Doubles Badminton Award	2018
1st Place, KAIST Civil and Environmental Engineering Undergraduate Research Award	2018

SKILLS

Programming Languages Python, R, Java, JavaScript, C, C#, CSS, HTML, PHP, MATLAB, Assembly

Frameworks/Libraries	TensorFlow, PyTorch, Keras, CUDA, Scikit-Learn, OpenCV, React.js, Node.js, Pandas, NumPy, SciPy
Tools/Software	Android Studio, Git, Linux, Jupyter, Arduino, SQL, MongoDB, Flask, Firebase, Processing, CAD, Figma