

Jisu Kim

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EDUCATION

Georgia Institute of Technology (GT)

Atlanta, GA

Master of Science in Human-Computer Interaction, Interactive Computing

May 2025

Master's project: Understanding AI Use and Non-use in Slide Creation Amongst Young Product Managers

Advisor: [Richmond Wong](#)

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 interested in helping humans better understand and interact with data and AI. My goal is to enhance human productivity with AI.

Keywords: HCI, Human-AI Interaction, Human-AI Collaboration, Explainable AI, Data-driven Interaction, Future of Work

RESEARCH EXPERIENCE

Design Intelligence Lab (DILab)

Atlanta, GA

Research Intern; Advisor: [Ashok Goel](#)

Jan. 2024 – Present

[w.1] SAMI: LLM-based AI-Mediated Social Interaction in online learning environments

- Enhanced the self-explanation feature of an AI social agent using the Task-Method-Knowledge model, improving completeness and correctness score by 6.94%.
- Designed a learnersourcing system using an AI social agent to boost both intrinsic and extrinsic motivation of learners.
- Received an offer to continue as a Graduate Research Assistant from Fall 2024 to Summer 2025.

KAIST Interaction Lab (KIXLab)

Daejeon, Korea

Research Intern; Advisor: [Juho Kim](#)

Jan. 2022 – Aug. 2023

[c.1] StupidTutor: Understanding users' comprehension ability from inconsistent large language models (LLMs)

- Identified that inconsistency improve participants' comprehension significantly by 13.29%.
- Designed a user study of 100+ question and answer datasets with various styles of explanation to display AI functionality.
- Developed the back-end for a user study interface using SQLite and Flask, collaborating with a front-end developer.
- Spearheaded data analysis and visualization of a user study with 250+ participants using Pandas with Python and R.

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

Research Intern; Advisor: [Jennifer Kim](#)

Aug. 2022 – Dec. 2022

Pioneering virtual reality and explainable AI for neurodiversity in remote work scenarios

- Compared several AI models and designed different styles of explanations to demonstrate AI predictions.

INDUSTRY EXPERIENCE

Tesla Inc.

Fremont, CA

Data Science Intern

Aug. 2024 – Present

Data analysis and predictive modeling on customer and vehicle churn

- Created and deployed a data pipeline for tracking customer ownership lifecycle, reducing incorrect data by 93.9%.
- Collaborated with stakeholders including finance, service, and customer support to gather data, dashboard, and features.
- Analyzed and built customer churn prediction model using Pandas and R, handling multiple large-scale datasets.

Samsung SDS Co., Ltd. (Samsung Data System)

Seoul, Korea

Artificial Intelligence 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.

PUBLICATIONS

[c.1] 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.

[w.1] Engaging Learnersourcing with an AI Social Agent in Online Learning

Jisu Kim, Ashok Goel

L@S 2024 Workshop on Learnersourcing: Student-generated Content @ Scale.

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 Product Managers' in a partnership with Google Workspace. Aiming for submission to CHI Late Breaking Work.

Raising Awareness about Freshwater Scarcity with Google Arts & Culture Lab and NASA JPL

Student Researcher; Advisor: [Yiyun Kang](#)

Translated Surface Water and Ocean Topography (SWOT) data into the design of a user-centric interactive online game. Exhibited both online at Google Arts & Culture Lab and offline at the UN Climate Change Conference 2023.

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.

TALK AND TEACHING EXPERIENCE

Samsung SDS Co., Ltd. (Samsung Data System)

Seoul, Korea

Speaker and Blog Editor | [Blog \(Korean\)](#)

Mar. 2021 – Aug. 2021

Hosted a monthly team seminar at Samsung SDS titled ‘Introduction to AI and Computer Vision for Novices’ 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.

NAVER Connect Foundation.

Seoul, Korea

Programming Mentor

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

Mentor – Tanzania ICT Volunteers 2019

Team Leader – KAIST Badminton Club 2019

HONORS AND AWARDS

GT Graduate Research Assistant Funding 2024

KAIST Outstanding Graduate Leadership Award 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