

JISU KIM

Atlanta, GA | jisulog.k@gmail.com | (470) 652 9854 | jisulog.kim

EDUCATION

Georgia Institute of Technology (GT)

Atlanta, GA

Master of Science in Human-Computer Interaction – Interactive Computing

Expected: May 2025

Master's project: Contextual Questioner, Generate Contextual Questions with AI in Google Slides

Advisor: Richmond Wong

Undergraduate Exchange Program in Computer Science

Fall 2022

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

Korea National University of Arts

Seoul, Korea

Undergraduate Exchange Program in School of Drama

Summer 2022

RESEARCH EXPERIENCE

GT Design Intelligence Lab

Atlanta, GA

Graduate Research Assistant; Advisor: Ashok Goel

Jan. 2025 – Present

SAMI: LLM-based AI-Mediated Social Interaction in Online Learning Environments

- Implemented a self-explanation and self-correction feature in an AI social agent using the Task-Method-Knowledge model.
- [w.1] Designed a learnersourcing system using an AI social agent to enhance intrinsic and extrinsic motivation.

KAIST Interaction Lab

Daejeon, Korea

Research Intern; Advisor: Juho Kim

Jan. 2022 – Aug. 2023

[c.1] StupidTutor: Understanding Users' Comprehension Ability from Inconsistent Large Language Models (LLMs)

- Designed a user study of 100+ question-answering datasets and used various explanation styles to show 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

- Designed object detection framework with a human-in-the-loop approach, fine-tuning based on human-labeled data.
- Led 20+ remote unmoderated usability tests encompassing both qualitative studies and quantitative benchmark studies.

KAIST Experience Design Lab

Daejeon, Korea

Research Intern; Advisor: Yiyun Kang

Mar. 2023 – Jul. 2023

Passage of Water: Raising awareness about freshwater scarcity through interactive online and offline media

- Translated surface water and ocean topography data from NASA JPL into a user-centric interactive online game design.

WORK EXPERIENCE

Tesla Inc.

Fremont, CA

Data Science Intern

Aug. 2024 – Jan. 2025

Data Analysis and Predictive Modeling on Customer and Vehicle Churn

- Created and deployed a data pipeline for tracking customer ownership lifecycle, reducing erroneous data by 93.9%.
- Built a customer churn prediction model with PR-AUC 0.704 using Pandas and R, handling multiple large-scale datasets.
- Collaborated and presented to stakeholders biweekly, including finance, service, and customer support teams

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

Seoul, Korea

Artificial Intelligence Intern

Mar. 2021 – Aug. 2021

Development of a Real-time Background Segmentation Model for the Video Conference Platform

- Developed a PyTorch model achieving 1.5x speed, 34% higher accuracy, 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

Contextual Questioner: Generate Contextual Questions with AI in Google Slides

Project Leader; Advisor: Richmond Wong | Presentation

Led a master's project on understanding AI use and non-use in slide creation and designed an AI agent for Google Slides.

SoundClouds, Participatory Music Generation Exhibition

Lead Developer; Advisor: Brian Magerko | Website

Exhibited a music experience where interaction with inflatables generated music. Implemented computer vision using YOLO.

VAL, Interactive Hierarchy Task Network (HTN) System for Task Planning

Research Assistant; Advisor: Christopher MacLellan | GitHub

Developed an interactive graphical user interface for HTN to enhance user control over task planning using React Flow.

FORECST, Online Hackathon Website

Project Leader; Advisor: Juho Kim | GitHub | Demo

Directed a team of 4 in the end-to-end website development for an online hackathon using React.js and Firebase during COVID.

PUBLICATIONS

Conferences and Journal Papers

[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.

Posters, Demos, and Workshop Papers

[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.

SCHOLARSHIPS AND AWARDS

| | |
|---|-------------|
| GT Graduate Research Assistant Scholarship | 2025 |
| KAIST Outstanding Graduate Leadership Award | 2024 |
| GT International House I-Spirit Award | 2022 |
| Mirae Asset Park Hyeun Joo Foundation Overseas Exchange Scholarship | 2022 |
| Korea National Scholarship | 2018 – 2022 |
| KAIST Outstanding Leadership Award | 2020 |
| 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 |

LEADERSHIP AND ACTIVITIES

| | |
|--|-------------|
| <i>Committee Member</i> – GT International House | 2022 |
| <i>Student President</i> – KAIST School of Computing; Representative of over 900 students. | 2019 – 2020 |
| <i>Mentor</i> – Tanzania ICT Volunteers | 2019 |
| <i>Team Leader</i> – KAIST Badminton Club | 2019 |
| <i>Vice Student President</i> – KAIST Freshman Learning Committee | 2018 |

TEACHING EXPERIENCE

| | |
|---|-----------------------|
| Samsung SDS Co., Ltd. (Samsung Data System) | Seoul, Korea |
| <i>Speaker and Blog Editor</i> Blog (Korean) | Mar. 2021 – Aug. 2021 |
| Hosted a monthly team seminar titled 'Introduction to AI for Novices' with content published on a Medium blog. 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 |
| <i>Programming Mentor</i> | Jul. 2021 – Aug. 2021 |
| Mentored 25 college-level and above students in the Python Boost course. | |
| LG Electronics Inc. | Daejeon, Korea |
| <i>Education Mentor</i> | Mar. 2019 – Dec. 2019 |
| Organized Arduino, CAD, and 3D printer classes for 48 students from multicultural families. | |