

JISU KIM

Atlanta, GA | jisulog.k@gmail.com | (470) 652 9854 | <https://jisulog.kim>

EDUCATION

Georgia Institute of Technology (GT)

Master of Science in Human-Computer Interaction, Interactive Computing

Advisor: Richmond Wong

Undergraduate Exchange Program in Computer Science

Atlanta, GA

July 2025

Fall 2022

Korea Advanced Institute of Science and Technology (KAIST)

Bachelor of Science in Computer Science, Minor in Artificial Intelligence (AI)

Double Major in Business and Technology Management

Daejeon, Korea

August 2023

Korea National University of Arts

Undergraduate Exchange Program in School of Drama

Seoul, Korea

Summer 2022

EMPLOYMENT

GT Design Intelligence Lab

Graduate Research Assistant; Advisor: Ashok Goel

SAMI: A Large Language Model (LLM)-based AI social agent for online learning

- Engineered a metacognitive self-revision architecture for an LLM-based agent to enhance robustness and transparency [1].
- Designed a learnersourcing system using the AI social agent to enhance student engagement and motivation [4].

Atlanta, GA

Jan 2025 – Jul 2025

Tesla Inc.

Data Science Intern

Applied machine learning (ML) for customer retention and lifecycle modeling

- Engineered a customer churn prediction model using XGBoost and SHAP on multi-terabyte datasets, providing retention strategies.
- Developed a SQL-based customer lifecycle tracking pipeline with dashboards, reducing upstream data inconsistencies by 93.9%.
- Demonstrated strong collaboration and communication skills by presenting biweekly to stakeholders across finance, service, support.

Fremont, CA

Aug 2024 – Jan 2025

KAIST Interaction Lab

Undergraduate Research Intern; Advisor: Juho Kim

One vs. Many: Investigating user trust and comprehension of inconsistent LLM generations [2]

- Designed the passages and comprehension questions for a large-scale (N=252) human evaluation study.
- Led quantitative analysis with Python and R to derive design implications for mitigating AI overreliance and calibrating human trust.
- Developed the backend infrastructure for user study deployment using SQLite and Flask, collaborating with frontend developers.

Grinder: Human-AI collaborative object detection framework for video commerce

- Designed a human-in-the-loop object detection framework with iterative fine-tuning based on human-labeled data.
- Conducted 20+ remote usability tests combining qualitative and quantitative methods to evaluate system usability and user experience.

Daejeon, Korea

Jan 2022 – Jul 2023

KAIST Experience Design Lab

Undergraduate Research Intern; Advisor: Yiyun Kang

Passage of Water: Raising awareness of freshwater scarcity through interactive media

- Translated NASA JPL surface water and ocean topography data into an interactive online game to promote environmental awareness.
- Designed the narrative structure and user engagement strategy for an interactive game featured on Google Arts & Culture.

Daejeon, Korea

Mar 2023 – Jun 2023

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

ML Engineer Intern

Real-time background segmentation model development for video conferencing

- Developed and optimized a PyTorch model achieving 1.5× speed, 34% higher accuracy, and 14% fewer parameters than the baseline.
- Applied transfer learning and knowledge distillation on unlabeled datasets to enhance performance and enable iterative improvement.
- Optimized and deployed the model using ONNX for integration into a production application for real-time inference in a video pipeline.

Seoul, Korea

Mar 2021 – Aug 2021

Samsung Research

Data Science Intern

LTE eNB KPI analysis for performance optimization

- Analyzed LTE eNB datasets using Python and Pandas to identify key statistical patterns and correlations supporting forecasting.
- Collaborated with ML engineers to refine KPI modeling and contribute to performance optimization efforts.

Seoul, Korea

Jul 2020 – Aug 2020

PUBLICATIONS

Conferences and Journal Papers

[1] A Metacognitive Architecture for Self-Revision in AI Social Agents

Jisu Kim, Mahimul Islam, Ashok Goel

AAAI 2026 Innovative Applications of AI.

[2] 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

ACM FAccT 2024: ACM Conference on Fairness, Accountability, and Transparency.

Posters, Demos, and Workshop Papers

[3] Sound Clouds-Exploring ambient intelligence in public spaces to elicit deep human experience of awe, wonder, and beauty

Chengzhi Zhang, Dashiell Carrera*, Daksh Kapoor*, Jasmine Kaur*, Jisu Kim*, Brian Magerko

NeurIPS 2025 Creative AI Track.

[4] Engaging Learnersourcing with an AI Social Agent in Online Learning

Jisu Kim, Ashok Goel

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

Working Papers

[5] "If the AI Tool Were an Ahole": Strategically Leveraging Critical Feedback and Prompting Reflection for Professional Creative Workflows**

Jisu Kim*, Debbie Hsu*, Vijay Farmah, Christopher J. MacLellan, Richmond Wong

Submitted to ACM IUI 2026: ACM Conference on Intelligent User Interfaces.

[6] "Jaw Dropping" Sound Clouds: Exploring the Role of Awe in Ambient Computational Systems through Installation Art

Dashiell Carrera, Jasmine Kaur, Daksh Kapoor, Chengzhi Zhang, Jisu Kim, Brian Magerko

Submitted to ACM CHI 2026: ACM Conference on Human Factors in Computing Systems

AWARDS AND HONORS

GT Graduate Research Assistant Scholarship – Full tuition for 1 year	2025
Top 10, KAIST Outstanding Graduate Leadership Award	2024
GT International House I-Spirit Award	2022
Mirae Asset Park Hyeon Joo Foundation Overseas Exchange Scholarship – 7M KRW	2022
Korea National Scholarship – Full tuition for 5 years	2018 – 2022
Top 3%, KAIST Outstanding Leadership Award	2020
2nd Place, World Friends Korea ICT Volunteers Project Award – 2M KRW	2019
2nd Place, KAIST Athletics Doubles Badminton Award	2018
1st Place, KAIST CEE Undergraduate Research Award – 1M KRW	2018

LEADERSHIP AND ACTIVITIES

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

TALKS

AI-ALOE External Advisory Board Meeting	Atlanta, GA
A Theory of Self-explanation in AI Agents	May 2025

TEACHING

Samsung SDS Co., Ltd.

Instructor and Editor | Blog (Korean)

Hosted a monthly 'Introduction to AI for Novices' seminar and authored 'Image Classification', a top 3 Google search result in Korean.

Seoul, Korea

Mar 2021 – Aug 2021

NAVER Connect Foundation.

Instructor

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

Seoul, Korea

Jul 2021 – Aug 2021

LG Electronics Inc.

Instructor

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

Daejeon, Korea

Mar 2019 – Dec 2019

MENTORING

Seungsu Kim

Gyeonggi Science High School

Jan 2024 – Present

REFERENCES

Richmond Wong

Assistant Professor in Digital Media, GT

rwong34@gatech.edu

Christopher J. MacLellan

Assistant Professor in School of Interactive Computing, GT

cmaclell@gatech.edu

Ashok Goel

Professor in School of Interactive Computing, GT

ashok.goel@cc.gatech.edu

Juho Kim

Associate Professor in School of Computing, KAIST

juhokim@kaist.ac.kr