

# 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), GPA: 4.0/4.0  
Undergraduate Exchange Program in Computer Science, GPA: 4.0/4.0

Atlanta, GA  
August 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

## PUBLICATIONS

- [1] **“If the AI Tool Were an A\*\*hole”: Strategically Leveraging Critical Feedback and Reflection in Slide Deck Refinement**  
Jisu Kim\*, Debbie Hsu\*, Vijay Farmah, Christopher J. MacLellan, Richmond Wong  
*ACM DIS 2026 (submitted).*
- [2] **“Jaw Dropping” Sound Clouds: Exploring the Role of Awe in Ambient Computational Systems through Installation Art**  
Dashiel Carrera, Jasmine Kaur, Daksh Kapoor, Chengzhi Zhang, Jisu Kim, Brian Magerko  
*ACM C&C 2026 (submitted).*
- [3] **A Metacognitive Architecture for Correcting LLM Errors in AI Agents**  
Jisu Kim, Mahimul Islam, Ashok Goel  
*AAAI 2026 Innovative Applications of AI (accepted).* [pdf]
- [4] **A Metacognitive Architecture for ToM Revision in AI Agents**  
Jisu Kim, Mahimul Islam, Ashok Goel  
*AAAI 2026 Theory of Mind for AI Workshop (accepted).* [pdf]
- [5] **Sound Clouds: Exploring Ambient Intelligence in Public Spaces to Elicit Deep Human Experience of Awe, Wonder, and Beauty**  
Chengzhi Zhang, Dashiel Carrera\*, Daksh Kapoor\*, Jasmine Kaur\*, Jisu Kim\*, Brian Magerko  
*NeurIPS 2025 Creative AI Track (accepted).* [pdf]
- [6] **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 (accepted).* [pdf]
- [7] **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 (accepted).* [pdf]

## EMPLOYMENT

### FlexTecs

AI Engineer  
Engineering smart financial AI solutions to proactively catch, correct, and prevent margin erosion

Atlanta, GA  
Dec 2025 – Present

### GT Design Intelligence Lab

Graduate Research Assistant; Advisor: Ashok Goel  
Developing metacognitive AI architectures for robust and trustworthy large language model (LLM) social agents  
• Engineered a metacognitive self-revision architecture for an LLM-based agent to adapt to user needs and maintain trust [3, 4].  
• Designed a learnersourcing system using the AI social agent to enhance student engagement and motivation [6].

Atlanta, GA  
Jan 2025 – Aug 2025

### Tesla Inc.

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

Fremont, CA  
Aug 2024 – Jan 2025

- 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.

## KAIST Interaction Lab

Daejeon, Korea

Undergraduate Research Intern; Advisor: Juho Kim

Jan 2022 – Jul 2023

Investigating user trust and comprehension of inconsistent LLM generations to encourage critical LLM usage [7]

- Designed user study (N=252) that empirically showed LLM inconsistency lowered perceived AI capacity but increased comprehension.
- 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.

## KAIST Experience Design Lab

Daejeon, Korea

Undergraduate Research Intern; Advisor: Yiyun Kang

Mar 2023 – Jun 2023

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.

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

Seoul, Korea

AI Engineer Intern

Mar 2021 – Aug 2021

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.

## Samsung Research

Seoul, Korea

Data Science Intern

Jul 2020 – Aug 2020

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.

## AWARDS AND HONORS

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

## PROFESSIONAL SERVICES

**Reviewer**, ACM IUI 2026 (received “highly useful” recognition), AAAI 2026 Innovative Applications of AI

**Student Volunteer**, Advances in Cognitive Systems 2025

## LEADERSHIP AND ACTIVITIES

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

## TEACHING

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### **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