# JISU KIM

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## EDUCATION

**Georgia Institute of Technology (GT)**    Atlanta, GA

Master of Science in Human-Computer Interaction (Interactive Computing), GPA: 4.0/4.0    August 2025

Advisor: Richmond Wong

Undergraduate Exchange Program in Computer Science, GPA: 4.0/4.0    Fall 2022

**Korea Advanced Institute of Science and Technology (KAIST)**    Daejeon, Korea

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

## PUBLICATIONS

[1] **"If the AI Tool Were an A\*\*hole": Strategically Leveraging Critical Feedback and Prompting Reflection for Professional Creative Workflows**
**Jisu Kim\***, Debbie Hsu\*, Vijay Farmah, Christopher J. MacLellan, Richmond Wong
*ACM IUI 2026 (submitted).*

[2] **A Metacognitive Architecture for Correcting LLM Errors in AI Agents**
**Jisu Kim**, Mahimul Islam, Ashok Goel
*AAAI 2026 Innovative Applications of AI (accepted).* [pdf]

[3] **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]

[4] **"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 CHI 2026 (submitted).*

[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**    Atlanta, GA

*AI Engineer*    Dec 2025 – Present

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

**GT Design Intelligence Lab**    Atlanta, GA

*Graduate Research Assistant*; Advisor: Ashok Goel    Jan 2025 – Aug 2025

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 [2, 3].

• Designed a learnersourcing system using the AI social agent to enhance student engagement and motivation [6].

**Tesla Inc.**    Fremont, CA

*Data Science Intern*    Aug 2024 – Jan 2025

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.

### 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

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|---|---|
| **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 Hyeun 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 |

## 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

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|---|---|
| **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 |

## Teaching

**Samsung SDS Co., Ltd.**                                                        Seoul, Korea

*Instructor and Editor* | Blog (Korean)                                          Mar 2021 – Aug 2021

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

**NAVER Connect Foundation.**                                                    Seoul, Korea

*Instructor*                                                                     Jul 2021 – Aug 2021

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

**LG Electronics Inc.**                                                          Daejeon, Korea

*Instructor*                                                                     Mar 2019 – Dec 2019

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