

# JISU KIM

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## 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  
Expected: 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: AI-mediated social interaction for online learning based on Large Language Models (LLMs)

- Implemented an LLM-based self-correction pipeline using Chain-of-Thought prompting and self-models for transparency [3].
- Designed a learnersourcing system using the AI social agent to enhance student engagement and motivation [2].

Atlanta, GA  
Jan 2025 – Present

### Tesla Inc.

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

- Engineered a customer churn prediction model on multi-terabyte datasets using Pandas, XGBoost, and SHAP for retention strategies.
- Developed a SQL-based customer lifecycle tracking pipeline with dashboards, reducing upstream data inconsistencies by 93.9%.
- Collaborated cross-functionally and presented biweekly to stakeholders across finance, service, and support teams for business impact.

Fremont, CA  
Aug 2024 – Jan 2025

### KAIST Interaction Lab

*Undergraduate Research Intern*; Advisor: Juho Kim  
StupidTutor: Understanding user comprehension and trust in erroneous and inconsistent LLM outputs [1]

- Designed passages and comprehension questions based on inconsistency types identified in a preliminary study.
- Developed backend for user study deployment using SQLite and Flask, in collaboration with frontend developers.
- Led quantitative analysis of 252 responses using Python, R, and Pandas, yielding design implications for promoting critical engagement.

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.
- Contributed to narrative design and user engagement strategies for the game, which was 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 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.
- Integrated the model into Samsung's Knox Meeting platform via collaboration with software engineering teams.

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

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### Conferences and Journal Papers

- [1] **One vs. Many: Comprehending Accurate Information from Multiple Erroneous and Inconsistent AI Generations** [DOI]  
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

- [2] **Engaging Learnersourcing with an AI Social Agent in Online Learning** [PDF]  
Jisu Kim, Ashok Goel  
*ACM L@S 2024 Workshop on Learnersourcing: Student-generated Content @ Scale.*

### Working Papers

- [3] **A Unified Metacognitive Structure for Self-Explanation and Self-Correction**  
Jisu Kim, Ashok Goel  
*In preparation for submission to Advances in Cognitive Systems 2025.*
- [4] **Of the Audience, By the Audience, For the Audience: Designing AI Support for Audience-Centered Slide Reflection**  
Jisu Kim\*, Debbie Hsu\*, Vijay Farmah, Christopher J. MacLellan, Richmond Wong  
*Aiming for ACM CHI 2026, directional revision from initial submission to ACM CHI 2025 LBW.*

## AWARDS AND HONORS

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<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

## LEADERSHIP AND ACTIVITIES

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<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

## TALKS

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

## TEACHING

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<b>Samsung SDS Co., Ltd.</b>	Seoul, Korea
<i>Instructor and Editor</i>   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.	
<b>NAVER Connect Foundation.</b>	Seoul, Korea
<i>Instructor</i>	Jul 2021 – Aug 2021
Taught 25 college-level and above students in the Python Boost course.	
<b>LG Electronics Inc.</b>	Daejeon, Korea
<i>Instructor</i>	Mar 2019 – Dec 2019
Organized Arduino, CAD, and 3D printer classes for 48 students from multicultural families.	

## MENTORING

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### **Seungsu Kim**

Gyeonggi Science High School

Jan 2024 – Present

## REFERENCES

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### **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

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### **Juho Kim**

*Associate Professor* in School of Computing, KAIST

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