# Jeongah Jasmine Lee

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## Research Interests

Human-Computer Interaction, Artificial Intelligence, Visualization, Accessibility

## Education

**MS/Ph.D**  **University of Massachusetts Amherst**, Computer Science — ***Amherst, MA, USA***  / Sep 2024 - Present
- GPA: 4.0/4.0

**B.S**  **Sungkyunkwan University**, Computer Science and Engineering — ***Suwon, Korea*** / Mar 2019 - Feb 2024
- GPA: 3.71/4.0 (converted)

**The University of Texas at Austin**, Electrical and Computer Engineering — ***Austin, TX, USA*** / Jan 2022 - May 2022
- Exchange student program

## Publications

**From Pixels to Primitives: Evaluating SVG Decomposition for Floor Plan Comprehension in Large Multimodal Models**
- ***Jeongah Lee***, Ali Sarvghad
- Under Review

**From Text to Visuals: Using LLMs to Generate Math Diagrams with Vector Graphics** ↗
- Jaewook Lee, ***Jeongah Lee***, Wanyong Feng, Andrew Lan
- AIED 2025: 26th International Conference on Artificial Intelligence in Education (Acceptance rate: 19%)

**IoT Edge-Cloud: An Internet-of-Things Edge-Empowered Cloud System for Device Management in Smart Spaces** ↗
- Yoseop Joseph Ahn, Minje Kim, ***Jeongah Lee***, Yiwen Shen, Jaehoon Paul Jeong
- 2023 IEEE Network Magazine

## Research Experiences

**HCI-VIS lab @ University of Massachusetts Amherst**, Graduate Research Assistant — ***Amherst, MA, USA*** / Sep 2024 - Present
- Advisor: Dr. Ali Sarvghad ↗

**IoT lab @ Sungkyunkwan University**, Undergraduate Student Researcher — ***Suwon, Korea*** / Jul 2021 - Nov 2021
- Advisor: Dr. Jaehoon Paul Jeong ↗

## Work Experiences

**Seoul National University Bundang Hospital**, Natural Language Processing (NLP) Researcher — ***Bundang, Korea*** / Mar 2024 - Jul 2024
- Developed a model that predicts lung cancer TNM stage using an Electronic Health Record dataset
- Finetuned Large Language Models (LLMs) in resource-restricted settings, optimizing model performance through tailored prompt engineering techniques

**Cipherome, Inc**, Machine Learning (ML) Engineer, Intern — ***San Jose, CA, USA*** / Mar 2023 - Aug 2023
- Developed the pipeline for an ML module within a clinician-focused medical data analysis platform
- Designed Figma wireframes to improve user experience and UI/UX

**Naver Boostcamp AI Tech Program**, NLP Engineer — ***Remote*** / Sep 2022 – Feb 2023
- Led projects on Semantic Text Similarity, Relation Extraction, Open-Domain Question Answering, and Chatbot Development tasks

**SK Planet Co.,Ltd.**, Industry-Academic Cooperation Student Researcher — ***Suwon, Korea*** / Mar 2020 - Dec 2020
- Developed an AR rhythm game application for the Busan One Asia Festival using AR Core to provide location-based interactive experiences

## Awards & Honors

**[Awards]**

- 3<sup>rd</sup> Place (Grand Prize), Chung-ang University AI and Humanities Academic Paper contest     Jan 2023
- 1<sup>st</sup> Place (Grand Prize), Kookmin University self-driving contest     Jul 2021 - Nov 2021
- 3<sup>rd</sup> Place (Grand Prize), Sungkyunkwan University AI x Bookathon contest     Jan 2021
- Volunteering Excellence Prize, NIA(National Information Society Agency)     Dec 2020

**[Scholarships]**

- Academic Excellence Scholarship (top 12%)     2022
- Creative Scholarship (100% tuition support)     2021
- Sungkyun Software Scholarship (100% tuition support)     2019
- MegastudyEdu Scholarship (external)     2019

## Teaching & Mentoring

**[Teaching]**

**Graduate Teaching Assistant**     Sep 2024 - Present

- *CICS 110: Introduction to Programming (Fall 2024)*
  Led two lab sessions (60 students each) with hands-on instruction and grading support
- *CS 383: Artificial Intelligence (Spring 2025)*
  Held office hours for a class of 180 students and mentored 15 group projects
- *CS 571: Data Visualization and Exploration (Summer 2025)*

**[Mentoring]**

**Independent Study Mentor**     Feb 2025 - Present

- Aishwarya Vishnubhotla, Srikiran Kavuri (CS Undergraduate at UMass), Prachetas Padhi (ECE Master at UMass)

**Undergraduate Research Program Volunteers** ⧉     May 2025 - Present

- Gerindra Adi, Vidhaan Kothari, Nish Methuku (CS Undergraduate at UMass)

## Volunteering/Leadership

**Panama World Friends Korea ICT e-volunteer**     Nov 2020 - Dec 2020

**Mobile Application Programming Mentoring at Youngbok Girls' High School**     Sep 2019 - Dec 2019

**College of Computing Student Council**     Mar 2019 - Dec 2019

## Skills

**Languages:** Korean (native fluency), English (full professional proficiency)

**Computer/Programming:** Python, Pytorch, R, JavaScript, D3.js, React.js, HTML, CSS, C, C++, Java, Kotlin