

# Jeongah Lee

✉ jeongahlee@umass.edu    🔗 <https://jeongah-jasmine-lee.github.io/>    in Jeongah Jasmine Lee


## Research Interests

Human-Computer Interaction, Accessibility, Data Visualization

## Education

<b>Ph.D</b>	<b>University of Massachusetts Amherst</b> , Computer Science <ul style="list-style-type: none"> <li>• Advisor: Dr. Ali Sarvghad (HCI-VIS lab)</li> </ul>	<b>Amherst, MA, USA</b> Sep 2024 - Present
<b>B.S</b>	<b>Sungkyunkwan University</b> , Computer Science and Engineering <ul style="list-style-type: none"> <li>• GPA: 3.71/4.0 (converted)</li> </ul>	<b>Suwon, Korea</b> Mar 2019 - Feb 2024
	<b>The University of Texas at Austin</b> , Electrical and Computer Engineering <ul style="list-style-type: none"> <li>• Exchange student program</li> </ul>	<b>Austin, TX, USA</b> Jan 2022 - May 2022

## Publication

<b>IoT Edge-Cloud: An Internet-of-Things Edge-Empowered Cloud System for Device Management in Smart Spaces</b>	June, 2023 IEEE Network 
Yoseop Joseph Ahn, Minje Kim, <b>Jeongah Lee</b> , Yiwen Shen, Jaehoon Paul Jeong	
<ul style="list-style-type: none"> <li>• Developed a cloud-based IoT system for the visual control and management of smart devices through a smartphone application, enhancing user interaction and device control</li> </ul>	

## Work Experiences

<b>Seoul National University Bundang Hospital</b> , Natural Language Processing (NLP) Researcher	<b>Bundang, Korea</b> Mar 2024 - Jul 2024
<ul style="list-style-type: none"> <li>• Developed a model that predicts lung cancer TNM stage using an Electronic Health Record dataset</li> <li>• Finetuned Large Language Models (LLMs) in resource-restricted settings, optimizing model performance through tailored prompt engineering techniques</li> </ul>	
<b>Cipherome, Inc</b> , Machine Learning (ML) Engineer, Intern	<b>San Jose, CA, USA</b> Mar 2023 - Aug 2023
<ul style="list-style-type: none"> <li>• Developed the pipeline for ML module within a clinician-focused medical data analysis platform</li> <li>• Designed Figma wireframes to improve user experience and UI/UX</li> </ul>	
<b>SK Planet Co.,Ltd.</b> , Industry-Academic Cooperation Researcher	<b>Suwon, Korea</b> Mar 2020 - Dec 2020
<ul style="list-style-type: none"> <li>• Created an outdoor location-based AR rhythm game application for Busan One Asia Festival using AR Core</li> <li>• Developed an indoor location recognition app using Wi-Fi fingerprinting to provide customized advertisements and benefits based on the customer's real-time location</li> </ul>	

## Research Experiences

<b>HCI-VIS lab @ University of Massachusetts Amherst</b> , Student Researcher	<b>Remote</b> Nov 2023 - Aug 2024
<ul style="list-style-type: none"> <li>• Conducted research on enhancing accessibility of visual data for blind and low-vision individuals</li> </ul>	
<b>Boostcamp AI Tech Program NLP track</b>	<b>Remote</b> Sep 2022 - Feb 2023
<ul style="list-style-type: none"> <li>• Led projects on Semantic Text Similarity, Relation Extraction, Open-Domain Question Answering, and Chatbot Development tasks</li> </ul>	
<b>IoT lab @ Sungkyunkwan University</b> , Undergraduate Student Researcher	<b>Suwon, Korea</b> Jul 2021 - Nov 2021
<ul style="list-style-type: none"> <li>• Advisor: Dr. Jaehoon Paul Jeong</li> </ul>	

**Awards and 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

**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 Public Relations Team** Mar 2019 - Dec 2019

**Teaching/Mentoring** \_\_\_\_\_

- Teaching Assistant** Sep 2024 - Present
  - CICS 110 Introduction to programming, Instructor: Dr. Ghazaleh Parvini

**Skills** \_\_\_\_\_

- Languages:** Korean (native fluency), English (full professional proficiency)
- Computer/Programming:** Python, Pytorch, JavaScript, HTML/CSS, C, C++