

# Jeongah Lee

✉ jeongahlee@umass.edu

🌐 <https://jeongah-jasmine-lee.github.io/>

in Jeongah Jasmine Lee

## Education

<b>Ph.D</b>	<b>University of Massachusetts Amherst</b> , Computer Science <ul style="list-style-type: none"> <li>Supervised by prof. Ali Sarvghad, prof. Narges Mahyar (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
Yoseop Joseph Ahn, Minje Kim, <b>Jeongah Lee</b> , Yiwen Shen, Jaehoon Paul Jeong	
IEEE Network <a href="#">🔗</a>	

## Work Experiences

<b>Seoul National University Bundang Hospital</b> , Machine Learning Researcher, Contract <ul style="list-style-type: none"> <li>Developed a model that predicts lung cancer TNM stage using an Electronic Health Record (EHR) dataset using Python</li> <li>Finetuned Large Language Models (LLMs) in resource-restricted settings, optimizing performance while employing prompt engineering techniques</li> </ul>	<b>Bundang, Korea</b> Mar 2024 - Jul 2024 5 months
<b>Cipherome, Inc.</b> , Machine Learning Engineer, Intern <ul style="list-style-type: none"> <li>Developed the pipeline for machine learning module within a clinician-focused medical data analysis platform using Python</li> <li>Investigated patient clustering methods utilizing Common Data Model (CDM) data</li> <li>Designed wireframes that embody comprehensive UI/UX enhancements to elevate the overall user experience using Figma</li> </ul>	<b>San Jose, CA, USA</b> Mar 2023 - Aug 2023 6 months
<b>SK Planet Co.,Ltd.</b> , Industry-Academic Cooperation Researcher <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>	<b>Suwon, Korea</b> Mar 2020 - Dec 2020 10 months

## Research Experiences

<b>HCI-VIS (Human Computer Interaction-Visualization) lab @ University of Massachusetts Amherst</b> , Student Researcher	<b>Remote</b> Nov 2023 - Present
<b>Boostcamp AI Tech NLP (Natural Language Processing) track</b> <ul style="list-style-type: none"> <li>Hosted by Naver Connect Foundation</li> <li>Led projects on Semantic Text Similarity, Relation Extraction, Open-Domain Question Answering, and Chatbot Development tasks</li> </ul>	<b>Remote</b> Sep 2022 - Feb 2023 6 months
<b>IoT (Internet of Things) lab @ Sungkyunkwan University</b> , Undergraduate Student Researcher <ul style="list-style-type: none"> <li>Supervised by prof. Jaehoon Paul Jeong</li> <li>Developed an application using JAVA and Android Studio that visualizes smart devices through a cloud system, aiming to enhance the usability of an IoT device management app</li> <li>Improved location tracking accuracy by 39% through the integration of Smart Pedestrian Dead-Reckoning and Particle Filter-Indoor Positioning algorithm</li> </ul>	<b>Suwon, Korea</b> Jul 2021 - Nov 2021 5 months

## Awards and Honors

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### [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

## Proficiency in skills

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

**Computer/Programming:** Python, Pytorch, Huggingface, C, C++, Java, Android Studio, Git/Github, Figma, WandB

## Volunteering and Leadership

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- Panama World Friends Korea ICT e-volunteer** Nov 2020 - Dec 2020  
2 months
- Delivered real-time streaming classes on Microsoft Office tools to over 90 Panama government employees
- Mobile Application Programming Mentoring at Youngbok Girls' High School** Sep 2019 - Dec 2019  
4 months
- Mentored a group of 10 high school students on mobile application development using App Inventor
- Sungkyunkwan University Autonomous Driving Club SCAR** 2021  
1 year
- Participated a study group focusing on deep learning and autonomous vehicles through Coursera courses
  - Using the Robot Operating System (ROS), wrote lidar ultrasound, image processing, and parking Python code to drive a set track
- College of Computing Student Council Public Relations Team** Mar 2019 - Dec 2019  
10 months
- Designed posters for public notice every week as a member of public relations team