

Kyochul Jang

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🔍 **Research Interests:** GUI Agent, On-Device AI, sVLAM, Embodied AI, and AI Safety



Education

Purdue University

Bachelor of Science in Computer Science (CGPA: 3.71 / 4.00)

Graduation: Fall 2023

West Lafayette, Indiana

Seoul National University

Master of Science in Artificial Intelligence (CGPA: 4.18 / 4.30)

Graduation: Spring 2026

Seoul, Korea

Publications

- i) **Jang, K.**, Lee, D., Kim, K., Heo, D., Lee, T., Kim, W., Suh, B. (2025). DICE-BENCH: Evaluating the Tool-Use Capabilities of Large Language Models in Multi-Round, Multi-Party Dialogues. *ACL 2025 Findings*. <https://snuhcc.github.io/DICE-Bench/>
- ii) Lee, D., Song, M., Kim, C., **Jang, K.**, Kim, H., Kang, J. (2025). ComPLUG: Efficient Multilingual Medical Reasoning via Compressed Pivot Language-guided Generation. *AAAI 2025* (Under Review).
- iii) Lee, J., **Jang, K.**, Sparkling, A. E., Kang, K. (2025). Large Language Model-based Construction Site Management for Severe Weather Preparedness. *ASCE's Journal of Construction Engineering and Management*. <https://www.researchgate.net/publication/386108841>
- iv) Kim, Y., **Jang, K.**, Song, H., Shin, M., Suh, B. (2025). CodeVoyager: An Interactive Tool for Rapid Code Comprehension through LLM-Assisted Graph Navigation. *UIST 2025 Poster* <https://programs.sigchi.org/uist/2025/program/content/209380> & *IUI 2026* (WIP) .
- v) Song, H., Shin, M., Kim, Y., **Jang, K.**, Choi, J., Jung, H., Suh, B. (2025). AltAuthor: A Context-Aware Alt Text Authoring Tool with Image Classification and LMM-Powered Accessibility Compliance. *IUI 2025 Posters and Demos*. <https://dl.acm.org/doi/10.1145/3708557.3716366>
- vi) Park, K., Kim, J., Song, H., **Jang, K.**, Suh, B. (2025). OASIS: Enhancing Debate Quality and Mitigating Polarization through AI-Assisted Argumentation. *UIST 2026*. (Under Review).
- vii) Song, H., Shin, M., Choi, J., Park, Y., **Jang, K.**, Suh, B. (2025). AltUs: Generating Alt Text to Improve E-Commerce Accessibility Through Blind and Low Vision User Participation. *UIST 2026*. (Under Review).
- viii) Lee, T., Yoon, C., **Jang, K.**, Lee, D., Song, M., Kim, H., Kang, J. (2025). ETHIC: Evaluating Large Language Models on Long-Context Tasks with High Information Coverage. *NAACL 2025*. <https://arxiv.org/abs/2410.16848>
- ix) Kim, H., Kim, C., Lee, H., **Jang, K.**, Lee, J., Lee, K., Kim, G., Kang, J. (2024). KU-DMIS at EHRSQL 2024: Generating SQL query via question templatization in EHR. *NAACL 2024*. <https://aclanthology.org/2024.clinicalnlp-1.64>
- x) Oh, D., Kang, K., Seo, S., Xiao, J., **Jang, K.**, Kim, K., Park, H., Won, J. (2023). Low-Cost Object Detection Models for Traffic Control Devices through Domain Adaption of Geographical Regions. *Remote Sensing, MDPI*. <https://doi.org/10.3390/rs15102584>

Awards and Honors

SKT AI Fellow Scholarship

06/2025 – 11/2025

Grand Prize (2nd Place), AI Demo Competition

06/2025

1st Prize (LG Almers / LG AI Hackathon)	01/2024 – 04/2024
Dean's List	08/2021 – 12/2023
Semester Honors	01/2021 – 12/2023

Patents

- LG Management Development Institute. **Jang, K.**, Choi, J., Jang, K., Choi, S., Hong, Y. (2025). Predictive System, Control Method thereof, and Learning Method of Predictive System. Korean Patent Application No. 10-2024-0109936. Publication No. 10-2024-0176815. <https://doi.org/10.8080/1020240176815>

Work Experience

SK Telecom <i>SKT AI Fellow</i>	05/2025 – Present <i>Hybrid</i>
<ul style="list-style-type: none"> • Developing On-Device mobile GUI agents capable of executing user instructions through interaction with smartphone interfaces. • Collected and preprocessed large-scale smartphone screenshot data to train and post-train a Small Vision-Language-Action Model (sVLAM) for robust GUI agent. 	
Naver - Naver Boostcamp / SSAFY - Samsung <i>AI Tech Teaching Assistant - Generation for NLP</i>	07/2024 – Present <i>Remote</i>
<ul style="list-style-type: none"> • Develop and review lecture content, including videos, assignments, and guides, while designing course objectives and evaluation criteria for the AI Tech NLP track. • Create and manage leaderboard-style competitions, including setting up datasets, evaluation metrics, and tutorials, and ensuring smooth operation of the stages.ai platform, while organizing educational sessions and seminars for students. 	
Department of Computer Science and Engineering, Seoul National University <i>Gradaute Teaching Assistant</i>	05/2025 – Present <i>Seoul, Korea</i>
<ul style="list-style-type: none"> • Assisted students in the Artificial Intelligence Seminar and Data Structures and Algorithms courses with hands-on practice and assignment development. • Facilitated the Artificial Intelligence Seminar by coordinating logistics, ensuring smooth lectures by invited speakers, and providing a supportive learning environment for students. 	
Samsung Electronics DX <i>Software Engineering Intern</i>	06/2023 – 08/2023 <i>Suwon, Korea</i>
<ul style="list-style-type: none"> • Worked as a SDE Intern at Samsung Electronics DX Mobile Experience team, developing automated programs leveraging AI technologies. • Designed and implemented an automated tool for next-generation Galaxy series products, leveraging Geekbench to identify scenario phases in Mobile AP chips through power and voltage variance analysis. 	
Department of Computer Science, Purdue University <i>Undergraduate Teaching Assistant - CS 17700</i>	08/2022 – 12/2023 <i>West Lafayette, Indiana</i>
<ul style="list-style-type: none"> • Created customized Python assignments for students based on their level of proficiency and course requirements, ensuring effective learning outcomes. • Instructed course materials and provided guidance to students in lab sessions while also assisting the Graduate Teaching Assistant in supervising and grading student work. 	

Leadership Experience

Purdue Korean Association (PKA) <i>Recruiting Team Leader</i>	08/2021 – 08/2023 <i>West Lafayette, Indiana</i>
<ul style="list-style-type: none"> • Led a team of 10 members, the largest in the association, and secured 7,000 club operation fees from prominent companies such as Samsung Electronics, LG, and SK Innovation. 	
Republic of Korea Army <i>Squad Leader</i>	08/2018 – 03/2020 <i>Seoul, Korea</i>
<ul style="list-style-type: none"> • Served as a squad leader of a radio operation squad in the military at Seoul Capital Defense Command. • Worked as a translator of Chinese, English, and Korean at Army Headquarters. 	

Project Experience

- Mobile GUI Agent Development** | *ADB, Huggingface TRL, UIAutomator2, Google AI Edge*

05/2025 – 11/2025

 - Designed and implemented a Mobile GUI Agent for smartphone automation by post-training SVLAM and deploying it On-Device. | Website: <https://devocean.sk.com/community/detail.do?ID=167400>
- Purdue Korean Association Website Development** | *Typescript, React, Figma, Next.js, Nest.js*

08/2023 – 05/2024

 - Build a renewal Purdue Korean Association Official website and contribute to front-end and back-end tasks using Next.js (React.js) and Nest.js while utilizing Figma for UI/UX design to enhance user experience. | Website: <https://purdueka.org/>
- Portfolio Website** | *React.js, HTML, Netlify, Tailwind, Firebase*

08/2022 – Present

 - Created and deployed my portfolio website from scratch using Firebase, React.js, CSS, and HTML without relying on pre-existing templates. | Website: <https://www.kyochul.com/>

Invited Talks

- Code Understanding Tool using React-Flow: Code Voyager** | *SNU AI Graduate School*

06/2025

 - Host: SNU GSAI
- LLM Function Calling and Agent** | *Naver Boostcamp*

11/2024

 - Host: Naver Boostcamp

Proficiency in Skills

Languages: English (Full Professional Proficiency), Chinese (Full Professional Proficiency), Korean (Native)
Programming Languages: Python, Huggingface, Pytorch, Java, C, C++, R, JavaScript (React.js), LaTeX, CSS, HTML
Certification: HSK (Level 6), Craftsman Information Processing