



# Kyochul Jang

Seoul National University (SNU) +82 10-9418-0574 [github.com/OfficerChul](https://github.com/OfficerChul)

[kyochul.com](http://kyochul.com) [kyochul@snu.ac.kr](mailto:kyochul@snu.ac.kr) [linkedin.com/in/kyochul-jang](https://linkedin.com/in/kyochul-jang)

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 \(WIP\)](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 EHRSQ 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

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

<b>SK Telecom</b>	05/2025 – Present
<i>SKT AI Fellow</i>	<i>Hybrid</i>
• 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.	
<b>Naver - Naver Boostcamp / SSAFY - Samsung</b>	07/2024 – Present
<i>AI Tech Teaching Assistant - Generation for NLP</i>	<i>Remote</i>
• 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.	
<b>Department of Computer Science and Engineering, Seoul National University</b>	05/2025 – Present
<i>Graduate Teaching Assistant</i>	<i>Seoul, Korea</i>
• 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.	
<b>Samsung Electronics DX</b>	06/2023 – 08/2023
<i>Software Engineering Intern</i>	<i>Suwon, Korea</i>
• 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.	
<b>Department of Computer Science, Purdue University</b>	08/2022 – 12/2023
<i>Undergraduate Teaching Assistant - CS 17700</i>	<i>West Lafayette, Indiana</i>
• 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

<b>Purdue Korean Association (PKA)</b>	08/2021 – 08/2023
<i>Recruiting Team Leader</i>	<i>West Lafayette, Indiana</i>
• 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.	
<b>Republic of Korea Army</b>	08/2018 – 03/2020
<i>Squad Leader</i>	<i>Seoul, Korea</i>
• 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

---

<b>Mobile GUI Agent Development</b>   <i>ADB, Huggingface TRL, UIAutomator2, Google AI Edge</i>	05/2025 – 11/2025
• Designed and implemented a Mobile GUI Agent for smartphone automation by post-training SVLAM and deploying it On-Device.   Website: <a href="https://devocean.sk.com/community/detail.do?ID=167400">https://devocean.sk.com/community/detail.do?ID=167400</a>	
<b>Purdue Korean Association Website Development</b>   <i>TypeScript, React, Figma, Next.js, Nest.js</i>	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: <a href="https://purdueka.org/">https://purdueka.org/</a>	

<b>Portfolio Website</b>   <i>React.js, HTML, Netlify, Tailwind, Firebase</i>	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: <a href="https://www.kyochul.com/">https://www.kyochul.com/</a>	

## Invited Talks

---

<b>Code Understanding Tool using React-Flow: Code Voyager</b>   <i>SNU AI Graduate School</i>	06/2025
• Host: SNU GSAI	
<b>LLM Function Calling and Agent</b>   <i>Naver Boostcamp</i>	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