

Kyochul Jang

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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*.
<https://github.com/snuhcc/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. *EMNLP 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., Suh, B. (2025). CodeVoyager: An Interactive Tool for Rapid Code Comprehension through LLM-Assisted Graph Navigation. *UIST Poster & CHI 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. *CHI 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. *CHI 2026* (WIP). (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 Fellowship 7th

06/2025 – 11/2025

Research Award, IPAI, Seoul National University

06/2025

Grand Prize (2nd Place), AI Demo Competition

06/2025

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| 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>

Research Experience

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| HCC Lab - Seoul National University <i>Graduate Researcher</i> | 07/2024 – Present <i>Seoul, Korea</i> |
| <ul style="list-style-type: none"> • Developing cognitively inspired AI systems that emulate human conceptual planning and language generation, and applying them to practical, user-centric domains such as computer use agents and embodied agents. • Exploring how AI-human interaction can enhance human life through innovative and practical solutions. | |
| DMIS Lab - Korea University <i>AI Researcher</i> | 01/2024 – 06/2024 <i>Seoul, Korea</i> |
| <ul style="list-style-type: none"> • Participated in the "Reliable Text-to-SQL on Electronic Health Records" challenge to develop a language model that generates queries from user instructions. My responsibilities included analyzing and identifying trends in unanswerable queries to enhance model accuracy and reliability. (NAACL) • Collaborated on the ETHIC benchmark project to assess large language models' long-context processing capabilities across books, debates, medicine, and law, introducing the Information Coverage metric to evaluate their performance. (ArXiv) | |
| SIMPLE Lab - Purdue University <i>Undergraduate Research Assistant / Undergraduate Researcher</i> | 10/2022 – 12/2023 <i>West Lafayette, Indiana</i> |
| <ul style="list-style-type: none"> • Finetuned the cutting-edge Large Language Model (LLM) by leveraging the ALPACA dataset, built on the foundation of the LLaMA2 model, with the strategic application of LoRA and 4-bit Quantization for enhanced performance and computational efficiency using Huggingface. • Analyzed over 100 models utilizing YOLOv5 in the intersection of computer vision and civil engineering, focusing on Transfer Learning and Domain Adaptation. This extensive study led to the publication of a co-authored journal paper. (Remote Sensing) • Developed a program utilizing the YOLOv5 Object Detection model to automatically delete videos featuring more than two individuals from a dataset of 25,000 videos totaling 1.4 TB and to apply automatic blurring on human faces for privacy enhancement using the DeepFace model. | |

Work Experience

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| 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. | |
| Samsung Electronics DX <i>Software Engineering Intern</i> | 06/2023 – 08/2023 <i>Suwon, Korea</i> |
| <ul style="list-style-type: none"> • Developed an automated program utilizing a probabilistic methodology to identify mobile AP program performance segments in Galaxy series products. • Conducted in-depth analysis of current and voltage usage in application processes utilizing Geekbench5. | |

Department of Computer Science

Undergraduate Teaching Assistant - CS 17700

08/2022 – 12/2023

West Lafayette, Indiana

- 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.

Independent

Web Development Tutor

05/2022 – 08/2022

Seoul, Korea

- Provided personalized web development tutoring to two design students, guiding them through creating and deploying their websites from scratch.
- Designed a 12-week course about web development. — Course Website: officerchul.github.io/webDev101

Purdue University Residences

Student Office Staff

08/2021 – 05/2022

West Lafayette, Indiana

- Served as a front-line representative of University Residences within the First Street Towers residence hall.
- Learned how to treat customers in various situations and how the Residence system works at Purdue University.

Bridging Group Korea

Moderation Intern

06/2020 – 07/2020

Seoul, Korea

- Successfully managed a diverse group of 500 international buyers and sellers, utilizing fluency in Korean, English, and Chinese, while moderating SPP2020, a high-profile event sponsored by the Seoul Business Agency.
- Acquired valuable customer service experience and a comprehensive understanding of the Residence system at Purdue University through various situations.

Leadership Experience

Purdue Korean Association (PKA)

Recruiting Team Leader

08/2021 – 08/2023

West Lafayette, Indiana

- Led a team of 10 members, the largest in the association, and collaborated with Korean companies to recruit talented individuals worldwide.
- Secured club operation fees through successful donation requests from prominent companies such as Samsung Electronics, LG, and SK Innovation, resulting in \$ 7,000 raised for the semester.

Republic of Korea Army

Squad Leader

08/2018 – 03/2020

Seoul, Korea

- Served as a squad leader of a radio operation squad in the military at Capital Defense Command.
- Worked as a translator of Chinese, English, and Korean at Army Headquarters.

Project Experience

Purdue Korean Association Website Development | Typescript, React, Figma, Next.js, Nest.js

08/2023 – 05/2024

- Build a renewal Purdue Korean Association Official Website, independently creating a custom solution without relying on any Content Management System (CMS).
- Contribute to front-end and back-end development tasks using Next.js (React.js) and Nest.js while utilizing Figma for UI/UX design to enhance user experience. | Website: <https://purdueka.org/> (WIP)

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: www.kyochuljang.com (WIP)

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