

CHEYON JIN

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RESEARCH INTERESTS

Natural Language Processing, Embodied Agent, Large Language Model (LLM) Planning, Artificial General Intelligence

EDUCATION

Seoul National University (SNU)

Seoul, Korea

B.S., Computer Science and Engineering

Mar. 2021 – Feb. 2025 (expected)

- CGPA: 4.13/4.3 (3.96/4.0)

Korea Minjok Leadership Academy (KMLA)

Hwongseong, Korea

Graduated Valedictorian of the Science Program

Mar. 2018 – Feb. 2021

- CGPA: 4.0/4.0, Awarded In-school Gifted Student Scholarship for all three years.

PUBLICATION

Song, J.H., **Jin, C.Y.**, Zhao, W.L., & Lee, J.Y. "Comparing Neighbors Together Makes It Easy: Jointly Comparing Multiple Candidates for Efficient & Effective Retrieval" *Empirical Methods in Natural Language Processing*, 2024. [[pdf](#)] **

RESEARCH EXPERIENCE

SNU [Vision and Learning Lab](#)

Seoul, Korea

Undergraduate Intern (Advisor: Prof. [Gunhee Kim](#))

Mar. 2024 – Present

1) "Intelligent Docent Service for Information Vulnerable Audiences" (09/2024-Present)

- Construct a Retrieval-Augmented Generation pipeline for an AI docent with real-time responses to visitor inquiries collaborating with Korea Radio Promotion Association and Peopulley, Inc.; first-authored manuscript in progress.
- Create an extensive instruction dataset with 2M+ records sourced from the e-museum database.
- Implement reinforcement learning (RL) to dynamically tailor AI responses based on visitor personas.

2) "Observation-Behavior-Aware Rewards from Video Language Models" (03/2024-08/2024)

- Co-designed the study to automate reward generation for RL tasks.
- Validated the effectiveness of preference-based training through surveys and experiments with VideoCLIP models.

3) "Paragraph Segmentation Model with LLM Fine-tuning" (03/2024-05/2024)

- Fine-tuned the Gemma-2b-it model to detect paragraph boundaries in speech-to-text-converted YouTube transcripts as a part of video summarization pipeline, partnering with 'RippleAI' (industry-academic project).
- Curated a custom Korean dataset by web-scraping speech content from news articles and blogs to train model.

SNU Undergraduate Research Opportunity Program (UROP)

Seoul, Korea

Participant (Advisor: Prof. [Sang-goo Lee](#))

Jan. 2024 – Feb. 2024

- Established an 8K dataset, automated metric scripts, and evaluated performances across various training and inference settings to optimize sLLM for expository writing in collaboration with SSF SHOP (online shopping mall).
- Achieved an 87% recall rate for product description generation via supervised-training with Polyglot-ko-3.8B.

SNU [Structure & Knowledge Injection into Machine Learning Lab](#)

Seoul, Korea

Undergraduate Intern (Advisor: Prof. [Jay-yoon Lee](#))

Jun. 2023 – Jan. 2024

- Executed experiments on lightweight document retrieval and contributed as second author to a publication.**
- Delivered biweekly presentations on hallucination detection as part of the 'Google exploreCSR' program.

PROFESSIONAL EXPERIENCE

IMM Investment

Seoul, Korea

Research Analyst, Venture Investment Division

Jan. 2023 – Feb. 2023

- Conducted research and prepared presentation materials for IR sessions on the IMM-Krafton India Fund.
- Performed due diligence for potential investments in Bigwave Robotics and generative AI companies.

NC Soft AI R&D Group

Seoul, Korea

Intern, Vision AI Lab Human Pose Team

Jan. 2022 – Feb. 2022

- Developed a 3D gesture classification and description application for a live-streamer.
- Successfully showcased a real-time demo with Blender animations.

INDEPENDENT PROJECTS & ACTIVITIES

Full-stack Developer & Designer, "EatandTell" (Food Review Social Media)

Sep. 2023 – Dec. 2023

- Managed a team of five as both backend (Django) and frontend (Android) developer.
- Designed the app's entire UI/UX using Figma for a seamless, cohesive, and user-friendly experience.

Android Developer, "Siksha" (SNU Cafeteria Menu App)

Mar. 2023 – Dec. 2023

- Engineered and maintained the "Siksha" Android app providing real-time cafeteria menus for SNU students.
- Integrated community and review features; posted regular updates and fixed bugs to elevate user experience.

Team Leader, "GollaJwo" (SNU X Hansot Business Contest)

Mar. 2023 – Nov. 2023

- Directed conceptualizing "GollaJwo," a keyword-based course recommendation service for planning outings.
- Led ideation, market research, and presentation preparation, contributing to the overall business and UX design.

TEACHING EXPERIENCE

Private Tutor, "Organic Chemistry"

Jul. 2021 – Aug. 2021

- Delivered 16 hours of private tutoring, resulting in the student receiving an Academic Excellence Award.

MPT (Minjok Peer Tutoring)

Mar. 2018 – Oct. 2019

- Conducted 33 hours of peer-tutoring in Physics, Chemistry, Advanced Mathematics, and Linear Algebra

AWARDS AND HONORS

Presidential Science Scholarship, Ministry of Science and ICT

2021 – Present

Grand Prize, The 2nd SNU X Hansot Business Contest

Nov. 2023

KMLA Dasan-Award (Ranked #1 in the Science Program)

Feb. 2021

National Athlete Nominee, Korean Chemistry Olympiad

2020

Gold Prize, The 33rd Korean Mathematical Olympiad

2019

Grand Prize, The 38th Korean Mathematics Competition High School Group

2018

PROFICIENCY IN SKILLS

Programming: Python, C, Java (advanced) C++, Kotlin, OCaml (intermediate), JavaScript, Scala (elementary)

Software: MS Office Suite (Word, Excel, PowerPoint), Final Cut Pro, Adobe Photoshop, Adobe Premiere Pro

Languages: Korean (native), English (fluent), Spanish (elementary)

ADDITIONAL INFORMATION

Volunteer: Word typing for the visually impaired and 11 hours of educational volunteer work for elderly living alone as executive member of SNU *Sibsiilban*, an educational volunteering club.

Activities: Waffle Studio (SNU web/app development club), Hoofers In SNU (street dance club), Google exploreCSR (computing research program for students from historically marginalized groups)