# CHEYON JIN

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## RESEARCH INTERESTS

My research interest lies in Natural Language Processing (NLP), particularly in advancing large language models toward human-like cognition, with a focus on reasoning, reinforcement learning (RL), and multimodal systems.

## 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)** **Gangwon-do, 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 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.

**NCSOFT AI R&D Group** **Gyeonggi-do, 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)