Minjoon Choi

Seoul, South Korea minjoonchoi08@snu.ac.kr m-joon-ixix.github.io m-joon-ixix

Interests

Knowledge-Aware Language Models, Vision-Language Models (VLMs),
Trustworthy & Reliable Language Models for High-Stake Applications, Software Design

Education

Seoul National University *Mar 2019 – Present*
Candidate for B.S. in Computer Science

- GPA: 4.04/4.3 (3.88/4.0)
- GPA for CS Major Courses: 4.15/4.3 (3.97/4.0)

University of Washington *Mar 2025 – Jun 2025*
University-Wide Exchange Student

- GPA: 4.0/4.0

Hana Academy Seoul *Mar 2015 – Feb 2018*
High School Diploma

Professional Experience

Software Engineer *Mar 2021 – Feb 2024*
Dunamu Inc. — Stockplus Backend-Team *Seoul, South Korea*
Mandatory military service completed as an Industrial Technical Personnel

- Management of 600K MAU servers running on Ruby On Rails & Kotlin Spring
- Led the team on managing user asset data, financial news contents
- Implementation of robust micro-service server architectures
- Partial management of MySQL databases & Kubernetes infrastructure

Research Experience

Undergraduate Research Assistant *Jun 2025 – Present*
University of Washington, Information School *Seattle, WA / Remote*

- Advisor: Prof. Lucy Lu Wang
- Evaluating the abstention capabilities of vision-language models (VLMs)
- Implementing a two-stage VLM abstention algorithm based on image & text confidence calibration

Undergraduate Researcher *Apr 2025 – Jun 2025*
University of Washington *Seattle, WA*

- Individual research (CSE 499) on the patterns of large language model hidden representations
- Conducted under the mentorship of Yike Wang (PhD Student, School of Computer Science & Engineering)

Undergraduate Research Assistant *Jun 2024 – Feb 2025*
Seoul National University, Department of Computer Science & Engineering *Seoul, South Korea*

- Advisor: Prof. Sang-goo Lee
- Developed a unified framework for the alignment of language models towards reliable behaviors when facing knowledge conflicts & uninformative external documents

Undergraduate Research Opportunity Program *Mar 2024 – May 2024*
Seoul National University, Department of Computer Science & Engineering *Seoul, South Korea*

- Advisor: Prof. Hanbyul Joo
- Visualized flawed segments, added annotation to Parahome motion capture data

Teaching Experience

Computer Programing (M1522.000600) *Fall 2025*
Head Teaching Assistant
Seoul National University, Department of Computer Science & Engineering

- Instructor: Prof. Ohchul Kwon
- Developed programming questions for mandatory lab sessions, Running weekly lab sessions, Grading exams and lab assignments, Overall course management

Database Systems (M1522.001800) *Fall 2024*
Undergraduate Teaching Assistant
Seoul National University, Department of Computer Science & Engineering

- Instructor: Prof. Sang-goo Lee
- Arranging in-class quiz sessions, Q&A on project assignments, Grading exams and assignments

Publications

Reliability Across Parametric and External Knowledge: Understanding Knowledge Handling in LLMs *2025* *Under Review*

Youna Kim, ***Minjoon Choi***, Sungmin Cho, Hyuhng Joon Kim, Sang-goo Lee, Taeuk Kim

Poster Presentations

Towards the Use of Layer-to-Layer Stability Patterns for Early Accuracy Estimation in Question Answering *2025* *ICCE-Asia 2025*

Minjoon Choi

Projects

RoParQ: Alignment of Large Language Models Towards Robustness to Paraphrased Questions *Sep 2025 - Present*
Undergraduate Thesis & Natural Language Processing Course Term-Project

- Evaluating LLMs' robustness to paraphrased questions, using a self-constructed benchmark 'RoParQ'
- Seeking improvements in robustness to paraphrasing through supervised reasoning-based fine-tuning
- Tools Used: Python, Pytorch, Transformers

PowerPuff Buns *Sep 2024 - Dec 2024*
Principles and Practices of Software Development Course Team Project *swpp-team10-2024fall*

- Led the team in developing a 3-D arcade-style shooting (TPS) game where players move a character to dodge obstacles, collect items, and defeat enemies
- Tools Used: C#, Unity, Blender

Honors & Awards

Seoul National University College of Engineering Data Utilization Idea Contest *Sep 2025* *Awarded 2nd Place*
Presented by College of Engineering Office of Information / Public Affairs

Korea & USA Advanced Field Student Exchange Funding Scholarship *Spring 2025*
Presented by Korea Institute for Advancement of Technology *Financial Aid*

Semiconductor Specialized University Scholarship *Fall 2023 - Present*
Presented by Korea Institute for Advancement of Technology & Ministry of Education *Academic Incentives*

Academic Scholarship *Fall 2020 - Present*
Presented by Seoul National University Office of Student Affairs *Tuition Fees*

Technical Skills

Programming: Python, Ruby, Java, Kotlin, C, C#, C++, MySQL, R, OCaml, LaTeX

Frameworks: Spring, Ruby on Rails, Pytorch, Pandas, Numpy

Tools: Git, Notion, Unity, Blender

Languages

Korean: Native

English: Full Professional Proficiency