# Minjoon Choi

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## 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

**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