Nayeon Kim

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RESEARCH EXPERIENCE

Korea University, Seoul, Republic of Korea — Sep. 2026 – Present
Postdoctoral Researcher
BK21 FOUR R&E Center for Artificial Intelligence

EDUCATION

Korea University, Seoul, Republic of Korea — Sep. 2021 – Aug. 2026
Ph.D. in Computer Science and Engineering
Dissertation: *Incorporating Linguistic Knowledge into Korean Natural Language Processing*
Advisor: Prof. SangKeun Lee

Kyungpook National University, Daegu, Republic of Korea — Mar. 2010 – Aug. 2015
B.A. in Korean Language and Literature

FELLOWSHIPS & GRANTS

- **Research Challenge Program Grant**, Brain Korea 21 Project — Aug. 2024 – Feb. 2026
  Funded by the National Research Foundation of Korea (NRF)
- **Junior Fellow Research Grant**, Brain Korea 21 Project — Mar. 2024 – Dec. 2024
  Funded by the National Research Foundation of Korea (NRF)
- **Ph.D. Fellowship** — Sep. 2023 – Aug. 2025
  Funded by the National Research Foundation of Korea (NRF)

RESEARCH INTERESTS

I conduct research in *computational linguistics and the development of AI grounded in human wisdom and morality.*

- **How can linguistic knowledge inform better computational models of language?**
  I am interested in multidisciplinary research aimed at truly understanding humans and developing beneficial AI systems, with a particular focus on integrating linguistics with computer science.
- **How can AI understand cultural contexts and reason about morality?**
  I aim to develop AI systems capable of culturally informed moral reasoning. My research explores how language models can learn from human moral commonsense and account for diverse values and perspectives when making judgments in context.

PEER-REVIEWED PUBLICATIONS

** denotes equal contribution (co-first authorship).*

1. Sungho Kim*, **Nayeon Kim***, Taehee Jeon, and SangKeun Lee. "Polishing Every Facet of the GEM: Testing Linguistic Competence of LLMs and Humans in Korean." In *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL 2025).*
   DOI: 10.18653/v1/2025.acl-long.492

2. **Nayeon Kim***, Eojin Jeon*, Jun-Hyung Park, and SangKeun Lee. "Handling Korean Out-of-Vocabulary Words with Phoneme Representation Learning." In *Advances in Knowledge Discovery and Data Mining (PAKDD 2025)*. DOI: 10.1007/978-981-96-8180-8_38

3. **Nayeon Kim***, Jun-Hyung Park*, Joon-Young Choi, Eojin Jeon, Youjin Kang, and SangKeun Lee. "Break it Down into BTS: Basic, Tiniest Subword Units for Korean." In *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP 2022)*. DOI: 10.18653/v1/2022.emnlp-main.472

REFERENCES

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Prof. Jun-Hyung Park
Assistant Professor, Department of Language & AI
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