

Byungjun Kim

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Research Fields

- Behavioral Patterns of LLMs in specific environments, including social deduction games, and role-playing games
- Human-like utterance generation using psychological basis

Education

MS	Chung-Ang University , Artificial Intelligence	Mar 2024 – Feb 2026
	<ul style="list-style-type: none"> • Coursework: Natural Language Processing, Machine Learning, AI 	
BS	Chung-Ang University , Software Engineering	Mar 2019 – Aug 2023
	<ul style="list-style-type: none"> • Summa Cum Laude • Coursework: Computer Science, Algorithm, Network 	





Employment

AI Research Engineer , Smilegate 	South Korea
<ul style="list-style-type: none"> • Managed advanced AI-driven mercenary system in Lost Ark Mobile  • Designed AI-driven game world control system in Lost Ark Mobile  • Explore and prototype methodologies for applying language models to NPC systems and the virtual worlds composed of such NPCs 	Dec 2025 - Present





Experience

Visiting Researcher University of Birmingham	United Kingdom
<ul style="list-style-type: none"> • Studied neural text decoding using LLM, supervised by Prof. Hyojin Park 	Sep 2025 - Nov 2025
Project Mentor Hyundai NGV Boost-Campus	Korea
<ul style="list-style-type: none"> • Confidential project 	Jul 2025 - Sep 2025
Teaching Assistant Department of AI at Chung-Ang University	Korea
<ul style="list-style-type: none"> • Mobile programming (Department of AI at Chung-Ang University) • Heuristic Algorithm (Department of AI at Chung-Ang University) 	
Research Intern ELU Lab at Chung-Ang University	Korea
<ul style="list-style-type: none"> • Researched financial QA • Investigated behavioral patterns of LLMs in abnormal environments, including obscured communication. 	May 2023 – May 2024
Camper NAVER Connect Boostcamp AI	Korea
<ul style="list-style-type: none"> • Completed an external training program in the NLP domain. During the program, I participated in internal competitions and worked on an industry-collaborative project. 	Sep 2022 – May 2024
Member On-campus AI club, CUIAI	Korea
<ul style="list-style-type: none"> • Participated in NLP study sessions and a summer project as a member of CUIAI. 	Mar 2022 – Aug 2022

Publications

- Fine-Grained and Thematic Evaluation of LLMs in Social Deduction Game** Sep 2025
[IEEE Access](#) 
Byungjun Kim, Dayeon Seo, Minju Kim, Bugeun Kim
- Leveraging Large Language Models for Active Merchant Non-player Characters (IJCAI) Proceedings of the Thirty-Fourth International Joint Conference on Artificial Intelligence AI, Arts & Creativity.** Aug 2025
[IJCAI](#) 
*Byungjun Kim**, Minju Kim*, Bugeun Kim
- DART: An AIGT Detector using AMR of Rephrased Text (NAACL) Proceedings of the 2025 Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics: Human Language Technologies** Apr 2025
[NAACL](#) 
Hyeonchu Park*, *Byungjun Kim**, Bugeun Kim
- PHISH in MESH: Korean Adversarial Phonetic Substitution and Phonetic-Semantic Feature Integration Defense (arXiv. preprint)** May 2025
[arXiv. preprint](#) 
Byungjun Kim, Minju Kim, Hyeonchu Park, Bugeun Kim

Projects

- LLM-based Agents Simulating Psychological Phenomena in Human Communication** thingsflow  and ELU Lab 
- Explore how psychological mechanisms behind human utterance generation can be applied to LLMs to enhance persona-consistent language generation.
 - Domain: LLM, Psychology
 - Role: Project manager (ELU Lab)
- Transformer-based Vision Model Compression** Nota AI  and NAVER Connect Boostcamp AI 
- Modifying the architecture of the SegFormer-b2 to achieve model compression and computational efficiency.
 - Domain: Model compression
 - Role: Camper researcher (Boostcamp AI)

Skills

Languages

- Korean - Native
- English - Proficient

Technologies

- Programming Languages: Python, SQL
- Backend & Model Serving: FastAPI, RESTful API, Model Deployment
- Machine Learning / Deep Learning: Pytorch, Transformers
- Tools & Infrastructure: Linux, Git, Docker

License

- Engineer Information Processing** Ministry of Science and ICT 