

SuHyun Bae

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Mathematical Data Science
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EDUCATION

2024 – Present **M.S. in Mathematical Data Science**, Department of Mathematics, Korea University

2018 – 2024 **B.S. in Mathematics**, Department of Mathematics, Korea University

RESEARCH INTERESTS

- LLM & NLP, Agentic AI, Model Architecture

PUBLICATIONS

Accepted

- Jaeheun Jung, Bosung Jung, Suhyun Bae and Donghun Lee “OPC: One-Point-Contraction Unlearning Toward Deep Feature Forgetting” *ICCV 2025 Workshop U&ME*.

Published

- SuHyun Bae and DongHun Lee “Exploring Hallucination Types in Question-Answering Generation and Limitation of Text Evaluation Metrics” *KCC 2024*.

EXPERIENCE

2024.07 – 2025.01 **Data Scientist**, SK magic.

Tech R&D and AI-based product business plan review.

PROJECTS

2023 AGC Dataset generation & processing and model fine-tuning.

2024 AIMO Dataset processing and model fine-tuning via QLoRA.

2025 ICML Workshop AL4MATH Developed an auto-solving system for natural language math problems, integrating commercial LLMs and prompt engineering with formalized language

2025 SCPC: AI Challenge Developed an on-device VLM capable of understanding everyday images and answering questions that require reasoning and background knowledge

2025 NeurIPS Workshop MATH-AI Designed an embedding space that preserves algebraic meaning by utilizing the Adele space for numerical token embedding

AWARDS & ACHIEVEMENTS

Team Award Awarded 7th Place in Stage 2 of the 2023 AI Grand Challenge (Policy Support AI), hosted by the Ministry of Science and ICT.

Individual Award Qualified as a finalist (59th place) for the 2025 SCPC: AI Challenge, hosted by Samsung Electronics.

SKILLS

- **Languages:** Python, L^AT_EX
- **Frameworks & Libraries:** PyTorch, HuggingFace
- **Tools:** Linux, Git, Docker

Updated August 3, 2025