

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

- Jaehun Jung, Bosung Jung, **Suhyun Bae** and Donghun Lee “OPC: One-Point-Contraction Unlearning Toward Deep Feature Forgetting” *ICCV 2025 Workshop U&ME*.
- **Suhyun Bae** and Donghun Lee “Numbers Already Carry Their Own Embeddings” *NeurIPS 2025 Workshop MATH-AI*.

Published

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

Pre-Print

- **Suhyun Bae**, Dayeon Shin, and Donghun Lee “Code to Reason in Math is Still Hard for Well-known LLMs”

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 Project: PFVL 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 training-free 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 (23th place) for the 2025 SCPC: AI Challenge, hosted by Samsung Electronics.

SKILLS

- **Languages:** Python, \LaTeX
- **Frameworks & Libraries:** PyTorch, HuggingFace
- **Tools:** Linux, Git, Docker

Updated October 21, 2025