Giung Nam

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Education

Ph.D., Kim Jaechul Graduate School of AI (GPA: 4.24/4.30; Advisor: Juho Lee),
KAIST, Seoul, Republic of Korea, Sep 2022 to Feb 2026 (expected).

M.S., Kim Jaechul Graduate School of AI (GPA: 4.20/4.30; Advisor: Juho Lee),
KAIST, Daejeon, Republic of Korea, Sep 2020 to Aug 2022.

B.S., Department of Computer Science and Engineering (GPA: 4.32/4.50),
Korea University, Seoul, Republic of Korea, Mar 2017 to Aug 2020.

Positions

Technical Research Personnel, Kim Jaechul Graduate School of AI, *Korea Advanced Institute of Science and Technology (KAIST)*, Daejeon, Republic of Korea. Performing military service in accordance with the Constitution of the Republic of Korea and the Military Service Act from Mar 2024 to Feb 2026.

Undergraduate Research Intern, Visual Intelligence Laboratory, *Electronics and Telecommunications Research Institute (ETRI)*, Daejeon, Republic of Korea. Developed AI-based software for face analysis, object detection, and segmentation during Summer and Winter 2019, and Summer 2020.

Undergraduate Research Intern, Research and Engineering Team, *VisualCamp*, Seongnam, Republic of Korea. Developed AI-based software for eye tracking and gaze analysis during Spring 2019.

Research Interests and Skills

Ph.D. Research, My primary research focus is on integrating various forms of *prior knowledge* into machine learning, with an emphasis on the scalable application of Bayesian principles to modern deep neural networks. Keywords: knowledge transfer, model compression, and ensembling.

Programming Skills, My primary programming language for research is Python, and I prefer JAX and PyTorch libraries for machine learning. Since Dec 2021, I have been actively leveraging the Cloud TPU VM environment for my research through the TPU Research Cloud program.

Experiences

Reviewer, Reviewed papers for ICML 2022-2025, NeurIPS 2022-2025 (recieved Top Reviewer recognition at 2022 and 2024), ICLR 2024-2025, IJCAI 2024, AAAI 2025, AISTATS 2025, and TMLR.

Teaching Assistant, Assisted courses at Korea Advanced Institute of Science and Technology (KAIST): *Deep Learning* (Instructor: Jaesik Choi; Fall 2020), *Machine Learning for AI* (Instructor: Juho Lee; Spring 2021), and *Bayesian Machine Learning* (Instructor: Juho Lee; Fall 2021).

Presentation, Presented papers at poster sessions for NeurIPS 2021 (online; Dec 2021), KAIST AI Workshop 21/22 (Daejeon, Republic of Korea; Jan 2022), ICML 2022 (online; Jul 2022), ICLR 2023 (Kigali, Rwanda; May 2023), ICML 2023 (Honolulu, United States; Jul 2023), Samsung Electronics DS Division (Hwasung, Republic of Korea; Aug 2023), AI SEOUL 2024 (Seoul, Republic of Korea; Feb 2024), ICLR 2024 (Vienna, Austria; May 2024), NeurIPS 2024 (Vancouver, Canada; Dec 2024), ICLR 2025 (Singapore; Apr 2025), and ICML 2025 (Vancouver, Canada; Jul 2025).

Honors and Awards

Kim Younghan Global Leader Fellowship, Awarded from *Korea Advanced Institute of Science and Technology (KAIST)* on Jul 24, 2023, for outstanding academic excellence, research capabilities, and leadership qualities.

Director General's Award, Awarded from *National Institute of Meteorological Sciences (NIMS)* on Dec 31, 2021, for dedication to the development of an artificial intelligence-based emulator for physics processes in numerical models.

Publications (*: equal contributions)

12. Jonggeon Park*, Giung Nam*, Hyunsu Kim, Jongmin Yoon, and Juho Lee. *"Ensemble distribution distillation via flow matching"*. **The Forty-Second International Conference on Machine Learning (ICML 2025)**, Jul 2025.

11. Hyunsu Kim, Giung Nam, Chulhee Yun, Hongseok Yang, and Juho Lee. *"Parameter expanded stochastic gradient markov chain monte carlo"*. **The Thirteenth International Conference on Learning Representations (ICLR 2025)**, Apr 2025.

10. Giung Nam, and Juho Lee. *"Ex uno pluria: insights on ensembling in low precision number systems"*. **The Thirty-Eighth Conference on Neural Information Processing Systems (NeurIPS 2024)**, Dec 2024.

9. Moonseok Choi*, Hyungi Lee*, Giung Nam*, and Juho Lee. *"Sparse weight averaging with multiple particles for iterative magnitude pruning"*. **The Twelfth International Conference on Learning Representations (ICLR 2024)**, May 2024.

8. Hyungi Lee*, Giung Nam*, Edwin Fong, and Juho Lee. *"Enhancing transfer learning with flexible nonparametric posterior sampling"*. **The Twelfth International Conference on Learning Representations (ICLR 2024)**, May 2024.

7. Giung Nam, Byengho Heo, and Juho Lee. *"Lipsum-FT: robust fine-tuning of zero-shot models using random text guidance"*. **The Twelfth International Conference on Learning Representations (ICLR 2024)**, May 2024.

6. Eunggu Yun*, Hyungi Lee*, Giung Nam*, and Juho Lee. *"Traversing between modes in function space for fast ensembling"*. **The Fortieth International Conference on Machine Learning (ICML 2023)**, Jul 2023.

5. Hyungi Lee, Eunggu Yun, Giung Nam, Edwin Fong, and Juho Lee. *"Martingale posterior neural processes"*. **The Eleventh International Conference on Learning Representations (ICLR 2023), Spotlight**, May 2023.

4. <u>Giung Nam</u>*, Sunguk Jang*, and Juho Lee. *"Decoupled training for long-tailed classification with stochastic representations"*. **The Eleventh International Conference on Learning Representations (ICLR 2023)**, May 2023.

3. Hwan-Jin Song, Soonyoung Roh, Juho Lee, <u>Giung Nam</u>, Eunggu Yun, Jongmin Yoon, and Park Sa Kim. *"Benefits of stochastic weight averaging in developing neural network radiation scheme for numerical weather prediction"*. **Journal of Advances in Modeling Earth Systems (JAMES)**, October 2022.

2. <u>Giung Nam</u>, Hyungi Lee, Byeongho Heo, and Juho Lee. *"Improving ensemble distillation with weight averaging and diversifying perturbation"*. **The Thirty-ninth International Conference on Machine Learning (ICML 2022)**, Jul 2022.

1. <u>Giung Nam</u>*, Jongmin Yoon*, Yoonho Lee, and Juho Lee. *"Diversity matters when learning from ensembles"*. **The Thirty-Fifth Conference on Neural Information Processing Systems (NeurIPS 2021)**, December 2021.