

Hyunmo Kang

Seoul, South Korea (Currently in New York, New York)

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Education

École Polytechnique Fédérale de Lausanne (EPFL)

Exchange Student (2023.9 – 2024.6)

Seoul National University

Physics undergraduate (Transferred from Medical School, 2019.3 – Present)

Republic of Korea Army

Sergeant (2022.2 – 2023.8)

Research Experience

Flatiron Institute, Center of Computational Neuroscience

Intern (Ongoing, 2024.6 – 2025.2): Predicting Behavior of Central Kernel Alignment with respect to number of neurons using eigenvector overlap formula of Random Matrix Theory.

Supervised by Professor Sueyeon Chung.

Physics of Complex Systems Laboratory (EPFL)

Project student (2023.9 – 2024.6): How rare events shape learning curve. Using Random Hierarchy model, a toy dataset having hierarchical structure.

Supervised by Professor Matthieu Wyart.

Courses taken

- Statistical Physics 3,4 (Graduate)
- Statistical Physics of Computation (by Florent Krzakala)
- Machine Learning for Physicists (by Lenka Zdeborova)
- Quantum Field Theory
- Differential Geometry (focused on smooth manifolds)
- Natural Language Processing
- Graph Neural Networks

Miscellaneous

History Buff: Backpacked the Middle East for a total of 3 months in 2019-2020 (Egypt, Lebanon, Jordan, Israel, Turkey, Iran, Azerbaijan, Uzbekistan, Morocco).