



# Kotaro Ikeda

## Undergraduate

### About me

Currently, I'm a student at the University of Tokyo, Japan, pursuing a degree in mathematical engineering. I've gained valuable experience through my involvement in research projects focused on machine learning methods, particularly diffusion models and their variations. My passion lies in exploring the application of stochastic mechanics to machine learning, including diffusion models, and I'm also keen on discovering other potential machine learning methods that can make a positive impact on the world.

### Education:

Bachelor's Degree in mathematical engineering | Planned to graduate March 2026

### Contact Information:

Email: kotaro-ikeda@g.ecc.u-tokyo.ac.jp

### Skills:

- Python, PyTorch
- C/C++. Java (mainly for android apps)
- Git/GitHub

### Work Experience:

Part time employee @ Preferred Networks Inc.  
Aug. 2024 - Present:

- Worked on some research projects as an summer intern
- Worked on developing a generative method involving flow matching and optimal transport theories.
- Continued working to write a paper for a top international conference

Long term internship @ Akari Inc.  
Feb. 2023 - Feb. 2024:

- Helped some projects on SLAMs and Gaussian Splattings
- Built a system using ROS and iOS applications for benchmarking

### Languages:

- Japanese (native)
- English (advanced)

