Masahiro Negishi

Summary_

I am a second-year master's student at the Graduate School of Information Science and Technology at the University of Tokyo. My research interests include explainable AI, representation learning especially for graphs, and weakly supervised machine learning. An additional area of interest for me is the application of ML within the context of combating climate change. Specifically, I have an interest in creating environmentally friendly materials for batteries or buildings, and detecting illegal deforestation utilizing remote sensing, among other things.

Education

The University of Tokyo

Tokyo, Japan

B.S. IN INFORMATION SCIENCE

Apr. 2019 - Mar. 2023

Awarded an honorable mention for my senior thesis "Pairwise-constraint classification in weakly supervised machine learning: Risk-consistent
approach and classifier-consistent approach."

The University of Tokyo

Tokyo, Japan

M.S. IN COMPUTER SCIENCE

Apr. 2023 - Present

The Vienna University of Technology

Vienna, Austria

RESEARCH EXCHANGE STUDENT

Mar. 2024 - Present

Work Experience _____

K.K. Best Path Research

Tokyo, Japan

MACHINE LEARNING ENGINEER

Aug. 2022 - Sep. 2022

• I was involved in developing an OCR system used in one of Japan's most popular mobile apps.

MATSUO INSTITUTE, INC

Tokyo, Japan

MACHINE LEARNING RESEARCHER

Oct. 2022 - Aug. 2023

- I was involved in research on building large-scale world models.
- As part of the outcome of the large-scale world model project, I wrote "Scaling Laws of Dataset Size for VideoGPT" as the first author and gave
 an oral presentation at the 37th Annual Conference of the Japanese Society for Artificial Intelligence.
- I was also involved in writing two other papers.

OMRON SINIC X Corporation

Tokyo, Japan

MACHINE LEARNING RESEARCHER

Nov. 2023 - Feb. 2024

• I was engaged in research on applying machine learning to symbolic regression for scientific discovery.

Honors & Awards

DOMESTIC

2023 **Honorable mention**, the faculty of Information Science, School of Science

Tokyo, Japan

Publications

DOMESTIC

Scaling Laws of Dataset Size for VideoGPT

Proceedings of the Annual Conference of JSAI

MASAHIRO NEGISHI, MAKOTO SATO, RYOSUKE UNNO, KOUDAI TABATA, TAIJU WATANABE, JUNNOSUKE KAMOHARA, TAIGA KUME, RYO OKADA, YUSUKE IWASAWA, YUTAKA MATSUO

2023

Construction and Validation of Action-Conditioned VideoGPT

Proceedings of the Annual Conference of JSAI

Koudai TABATA, Junnosuke KAMOHARA, Ryosuke UNNO, Makoto SATO, Taiju WATANABE, Taiga KUME, Masahiro NEGISHI, Ryo OKADA, Yusuke IWASAWA, Yutaka MATSUO

2023

April 14, 2024 Masahiro Negishi · Résumé

MAKOTO SATO, RYOSUKE UNNO, MASAHIRO NEGISHI, KOUDAI TABATA, TAIJU WATANABE, JUNNOSUKE KAMOHARA, TAIGA KUME, RYO OKADA, YUSUKE IWASAWA, YUTAKA MATSUO

2023

Extracurricular Activity

Educational Workshop on Responsible AI for Peace and Security

Malmö, Sweden

PARTICIPANT

Nov. 2023 - Nov. 2023

- Took part in the educational workshop held by United Nations and Stockholm International Peace Research Institute.
- Learned about what AI risks are and how to mitigate them with responsible research and innovation.
- Discussed with selected Master's and Ph.D. students from around the world
- · Article by United Nations: https://disarmament.unoda.org/update/sipri-and-unodas-engagement-with-next-generation-ai-practitioners/
- Article by SIPRI: https://www.sipri.org/news/2023/sipri-and-unoda-engage-next-generation-ai-practitioners?s=31

Skills_

Programming Python (PyTorch, Numpy, Scipy, Matplotlib, etc.), C++

Languages Japanese, English(TOEFLiBT 104)