Masahiro **Negishi**

Summary

I am a first-year master's student at the Graduate School of Information Science and Technology of the University of Tokyo. As a member of the Sugiyama-Yokoya-Ishida lab, I am interested in disentangled representation learning, causal machine learning, and weakly-supervised machine learning.

Education

The University of Tokyo — *Tokyo, Japan*

B.S. in Information Science — *Apr. 2019 - Mar. 2023*

- Awarded an honorable mention for my senior thesis.

The University of Tokyo — *Tokyo, Japan*

M.S. in Computer Science — *Apr. 2023 - 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 - Present*

- I am involved in research on machine learning for symbolic regression

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

Scaling Laws of Model Size for World Models

Proceedings of the Annual Conference of JSAI

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

2023

Skills

Programming Languages Python (NumPy, PyTorch, etc.), C++
Japanese, English