

Sosuke Nishikawa

MACHINE LEARNING ENGINEER

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Personal Profile Statement

A master's student at the University of Tokyo with experience in software and machine learning. Skilled at operating in a wide range of platforms and programming. Praised for the ability to work hard and to achieve goals. Currently studying natural language processing using deep learning.

Education

- **Master's student in Information Science and Technology**, The University of Tokyo, Echizen lab. — *Apr. 2020 - Mar. 2022 (Expected graduation)*
- **B.E. in Electrical Engineering and Computer Science**, The University of Tokyo, Tsuruoka lab. — *Mar. 2020, GPA: 3.8/4.2*

Work and Research Experience

Echizen Lab, National Institute of Informatics

RESEARCH ASSISTANT

- Research on adversarial examples in NLP
- Research on multilingual models

Tokyo, Japan

Apr. 2020 - PRESENT

Studio Ousia

RESEARCH ENGINEER (PART TIME)

- Research on introducing entity representations into pre-trained language models

Tokyo, Japan

Feb. 2020 - PRESENT

CyberAgent Inc.

MACHINE LEARNING ENGINEER INTERNSHIP (ONE-MONTH)

- Worked on information extraction from web documents

Tokyo, Japan

Feb. 2021 - Feb. 2021

SONY

RESEARCH ENGINEER INTERNSHIP (ONE-MONTH)

- Research on dialogue systems and classification of conversations in text

Tokyo, Japan

Sep. 2020 - Oct. 2020

Cookpad Inc.

MACHINE LEARNING ENGINEER INTERNSHIP (TWO-WEEK)

- Developed the API that predicts ingredients from recipes

Tokyo, Japan

Sep. 2020 - Sep. 2020

Wantedly Inc.

MACHINE LEARNING ENGINEER INTERNSHIP (ONE-MONTH)

- Improved recommendation models using graph embedding

Tokyo, Japan

Aug. 2020 - Aug. 2020

Stockmark Inc.

SOFTWARE ENGINEER (PART TIME)

- Created web application that allows users to understand at a glance who is familiar with which fields

Tokyo, Japan

Dec. 2018 - Dec. 2019

Publication

REFEREED

A Multilingual Bag-of-Entities Model for Zero-Shot Cross-Lingual Text Classification

- Accepted to ACL-IJNLP SRW 2021 (non-archival option is used for future publication)
- Under review by ACL Rolling Review
- Sosuke Nishikawa, Ikuya Yamada, Yoshimasa Tsuruoka, Isao Echizen

Data Augmentation with Unsupervised Machine Translation Improves the Structural Similarity of Cross-lingual Word Embeddings

- Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing: Student Research Workshop (ACL-IJCNLP SRW 2021)
- Sosuke Nishikawa, Ryokan Ri and Yoshimasa Tsuruoka

NON-REFEREED

エンティティの言語間リンクに基づく多言語モデルの構築

- A Multilingual Bag-of-Entities Model for Zero-Shot Cross-Lingual Text Classification
- Proceedings of the 27th Annual Meeting of the Association for Natural Language Processing (NLP2021)
- Sosuke Nishikawa, Ikuya Yamada, Yoshimasa Tsuruoka, Isao Echizen

マルチラベル分類による材料推薦モデル

- A Model for Recommending Cooking Ingredients Using Multi-Label Classification
- Proceedings of the 27th Annual Meeting of the Association for Natural Language Processing (NLP2021)
- Yusuke Fukasawa, Jun Harashima, Sosuke Nishikawa

Studio Ousia at the NTCIR-15 SHINRA2020-ML Task

- 15th NTCIR Conference
- Sosuke Nishikawa, Ikuya Yamada

教師なし機械翻訳の出力結果から作成した多言語分散表現の分析

- Analysis of bilingual word embeddings using pseudo corpus generated from Unsupervised Machine Translation
- Proceedings of the 26th Annual Meeting of the Association for Natural Language Processing (NLP2020)
- Sosuke Nishikawa, Yoshimasa Tsuruoka

Awards

JGC-S scholarship foundation

Scholarship for study abroad program.

Competences

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|-------------------------------|---|
| Languages | Japanese (<i>native</i>), English (<i>conversant</i> , IELTS 6.0) |
| Programming | Python, JavaScript/TypeScript, Ruby, C/C++, \LaTeX , HTML/CSS, MySQL, Google Apps Script, Java, Go |
| Libraries and Services | Pytorch, Tensorflow, Keras, Docker, Amazon Web Service, d3.js, express.js |
| Competitive prog. | Atcoder sosuke115 (rate 1003) |