

Machel Reid

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RESEARCH / WORK EXPERIENCE

Matsuo Lab, The University of Tokyo

Tokyo, JP

Research Intern

October 2019 - Present

- Specifically, I have been working on representation learning, using variational inference for learning natural language edit representations and transfer learning methods for better word embeddings for morphologically rich low resource languages.
- Youngest member of the lab - 15yrs (at time of internship)

Numada Lab, The University of Tokyo

Tokyo, JP

Research Intern

June 2019 - September 2019

- Worked on the development of a machine learning based system for accelerated disaster inquiry responses and for ease of access to information in natural disaster situations.
- Youngest member of the lab 14yrs

Thomson Reuters Foundation

Remote / Tokyo, JP

Researcher

May 2019 - June 2019

- Translated TRF's survey regarding social entrepreneurs and conducted research with companies across Japan to be incorporated into the global study. <http://poll2019.trust.org/>

Researcher

September 2018

- Conducted research about women-only carriages with Tokyoites in Japanese.
- Article featured on the World Economic Forum, Japan Times, Thomson Reuters. <https://www.weforum.org/agenda/authors/machel-reid>

Researcher

August 2018 - September 2018

- Conducted research about 200 women's views on transportation in Tokyo over 5 days for TRF.
- Developed graphs and visual representations of the data for easy consumption. <http://2018transportpoll.trust.org/city/tokyo/>

PUBLICATIONS

1. Edison Marrese-Taylor, **Machel Reid** and Yutaka Matsuo. Variational Inference for Learning Representations of Natural Language Edits. *5th Workshop on Representation Learning for NLP, ACL 2020. Association for Computational Linguistics.*
2. **Machel Reid**, Edison Marrese-Taylor and Yutaka Matsuo. Combining Pretrained High Resource Embeddings and Subword Representations for Low-Resource Languages. *AfricaNLP Workshop, International Conference of Learning Representations (ICLR20) 2020*

AWARDS & HONORS

Masayoshi Son Foundation Scholars

July 2020 - Present

Grand Prize Winner, Rakuten Technology Conference Hackathon

October 2018

- Our team ('No-name') developed a prototype matchmaking app between babysitters and working parents - Supernannies. This was made to combat problems that working women face in Japan today (career or children?). Out of all 10, carefully-reviewed projects, our team was chosen as the winner. <https://blog.api.rakuten.net/rtc-hackathon-winners/>

TESTS & CERTIFICATES

- **JLPT N1** - Passed - Dec 2019
- **SAT Math II Subject Test** - 800/800 - age 13
- **SAT US History Subject Test** - 770/800 - age 13
- **SAT** - 1490/1600 - 720 English, 770 Math - Top 1% - age 12
- **Deep Learning Specialization** (deeplearning.ai)
- **Machine Learning** (Stanford University)

VOLUNTEER ACTIVITIES

- **ICML 2020 Volunteer**
- **ACL 2020 Volunteer**
- **ICLR 2020 Volunteer**
- **Rakuten RapidAPI Champions Program**

Worked in the capacity of a technology evangelist (API Champion) at Rakuten RapidAPI. Responsibilities included promoting Rakuten RapidAPI by participation in monthly events, (e.g. judging or mentoring at hackathons, etc..) and developing applications. Judged at the 2019 Junction Tokyo Hackathon (API Track) at age 14 representing the organization.

SKILLS

Software	Python, JavaScript, PyTorch, Transformers, Linux, Bash, Tensorflow, L ^A T _E X
Languages	English (native), Japanese (advanced)