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# Machel Reid

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## EXPERIENCE

### Research Intern - Matsuo Lab, University of Tokyo

Tokyo, JP

Oct 2019 - PRESENT

Working on NLP (Natural Language Processing) research at Matsuo Lab, University of Tokyo.

Specifically, I have been working on representation learning, using variational inference for learning natural language edit representations, generation of contextual hypotheses/definitions for explanations of unknown sentence aspects, and transfer learning methods for better word embeddings for morphologically rich low resource languages.

**Advisor: Professor Yutaka Matsuo**

### Research Intern - Numada Lab, Institute of Industrial Science, University of Tokyo

Tokyo, JP

Jun 2019 - Sep 2019

Contributed to a machine learning-based system for accelerated disaster inquiry responses from helplines and ease of access to information in natural disaster situations. Designed to improve Japan's current paper-only system for natural disaster aftermaths.

**Advisor: Associate Professor Muneyoshi Numada**

### Researcher, Contributor - Thomson Reuters Foundation

May 2019 - Jun 2019

Translated survey regarding social entrepreneurs and conducted research with companies across Japan to be incorporated into the annual global study. [Report](#)

Aug 2018 - Sep 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>
- Conducted research about 200 women's views on transportation in Tokyo over 5 days. Afterwards, developed graphical representations of the data for visual consumption.  
[Report](#)

Notes: Youngest researcher, Recommendation letter available upon request

## PUBLICATIONS

**Machel Reid**, Edison Marrese-Taylor and Yutaka Matsuo.

“Combining Pretrained High Resource Embeddings and Subword Representations for Low-Resource Languages” **AfricaNLP Workshop, ICLR 2020.** [Paper](#)

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Edison Marrese-Taylor, **Machel Reid**, and Yutaka Matsuo.

*“Variational Inference for Learning Representations of Natural Language Edits”*

**Representation Learning for NLP Workshop, ACL 2020.** [Paper](#)

## AWARDS / CERTIFICATES

### **Rakuten Technology Conference Hackathon 2018 - Grand Prize Winner (1st Overall)**

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 finalist projects, our team was chosen as the winner.

The app was developed in React Native, with Firebase as backend. Utilized Rakuten's RapidAPI marketplace to easily access and manage several powerful APIs.

<https://blog.api.rakuten.net/rtc-hackathon-winners/>

**Japanese Language Proficiency Test N1: Passed** (Dec 2019)

**Deep Learning Specialization** (deeplearning.ai) [Certificate](#)

**Machine Learning** (Stanford University) [Certificate](#)

## VOLUNTEER ACTIVITIES

### **International Conference of Learning Representations (ICLR) 2020 Volunteer**

Volunteered to test the technologies to be used in the first instance of the ICLR virtual conference program.

### **Rakuten RapidAPI API Champion**

Worked in the capacity as a technology evangelist (API Champion) at Rakuten RapidAPI.

Responsibilities included promoting Rakuten RapidAPI by participation in events (e.g. judging or mentoring at hackathons) and developing applications to help show off the platform.

**Judged at the 2019 Junction Tokyo Hackathon** (API Track) representing the organization.

## SKILLS

**Languages:** English (Native), Japanese (Advanced)

**Programming Languages:** Python, JavaScript, Go

**Packages:** PyTorch, Scikit-Learn, OpenNMT, Transformers