TATSUYA AOKI

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EDUCATION

Tokyo Institute of Technology, Tokyo, Japan   April 2018 - present
Ph.D. in Engineering
Research Advisor: Prof. Manabu Okumura and Prof. Hiroya Takamura
Research Interests: Natural Language Processing, Representation Learning

Tokyo Institute of Technology, Tokyo, Japan   April 2016 - March 2018
M.S. in Engineering

University of Tsukuba, Ibaraki, Japan   April 2014 - March 2016
B.S. in Information Science and Media

EXPERIENCE

Apple Japan Inc.
Input Method Engineer, Tokyo, Japan   October 2020 - present

Apple Inc.
Software Engineer Intern, Cupertino, CA   July 2019 - November 2019
  - Worked on Natural Language Processing under Siri AI team

The University of Melbourne
Visiting Student, VIC, Australia   June 2018 - May 2019
  - Developed methods to induce domain-specific lexicons from unlabeled corpora
  - Adapted adversarial examples and contextual embeddings to detect domain-specific word usages

National Institute of Advanced Industrial Science and Technology
Research Assistant, Tokyo, Japan   May 2017 - May 2018
  - Developed methods to describe financial markets from recent changes in stock prices
  - Applied sequence-to-sequence learning to generate market comments

IBM Research
Research Intern, Tokyo, Japan   September 2016 - November 2016
  - Developed systems which incorporate linguistic information for mental health screening
  - Used the Watson framework to analyze how user sentiments have changed through a huge earthquake

PUBLICATIONS

[1] Riku Kawamura, **Tatsuya Aoki**, Hidetaka Kamigaito, Hiroya Takamura, and Manabu Okumura. Neural text normalization leveraging similarities of strings and sounds. In *International Conference on Computational Linguistics*, 2020.

[2] Kasumi Aoki, Akira Miyazawa, Tatsuya Ishigaki, **Tatsuya Aoki**, Hiroshi Noji, Keiichi Goshima, Ichiro Kobayashi, Hiroya Takamura, and Yusuke Miyao. Controlling contents in data-to-document generation withhuman-designed topic labels. In *International Conference on Natural Language Generation*, 2019.

[3] **Tatsuya Aoki**, Ryohei Sasano, Hiroya Takamura, and Manabu Okumura. Detecting non-standard word usages from social media. *Journal of Natural Language Processing*, 2019. (In Japanese)

[4] **Tatsuya Aoki**, Akira Miyazawa, Kasumi Aoki, Keiichi Goshima, Tatsuya Ishigaki, Ichiro Kobayashi, HiroyaTakamura, and Yusuke Miyao. Generating market comments referring to external resources. In *International Conference on Natural Language Generation*, 2018. **Short Paper.**

[5] **Tatsuya Aoki**, Ryohei Sasano, Hiroya Takamura, and Manabu Okumura. Distinguishing japanese non-standard usages from standard ones. In *Empirical Methods in Natural Language Processing*, 2017. **Short Paper.**

[6] **Tatsuya Aoki**, Katsumasa Yoshikawa, Tetsuya Nasukawa, Hiroya Takamura, and Manabu Okumura. Detecting earthquake survivors with serious mental affliction. In *Pacific Association for Computational Linguistics*, 2017.

SKILLS

Software: Python, PyTorch, scikit-learn (Proficient), C, C++, Java (Advanced)
Languages: English (Proficient), Japanese (Native), Mandarin Chinese (Elementary)