Yoshinari Fujinuma

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Virtual

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http://akkikiki.github.io
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Education

University of Colorado Boulder, USA — Aug. 2016 - Present
Advisors
- Current: Katharina Kann, Jordan Boyd-Graber
- Past: Michael J. Paul
5th year Computer Science PhD student

University of Tokyo, Japan — Sep. 2014
M.S. in Information Science and Technology; Advisor: Akiko Aizawa

International Christian University, Japan — Mar. 2012
B.A. in Computer Science and Mathematics; Advisor: Grant Pogosyan

Professional Experience

Teaching Assistant, University of Colorado Boulder, USA — Jan. 2020 - present

Applied Scientist Intern, Amazon Web Services Inc, USA — May 2020 - Aug. 2020

Research Assistant, University of Colorado Boulder, USA — Aug. 2016 - Dec. 2019

Applied Scientist Intern, Amazon.com, USA — May 2018 - Aug. 2018

Software Engineer, Amazon/A9.com, Japan — Oct. 2014 - Aug. 2016

Software Engineer Intern, Amazon/A9.com, Japan — Nov. 2013 - Feb. 2014

Part-time Engineer, Atilika, Japan — Aug.- Nov. 2013, Apr.- Sep. 2014

Software Engineer Intern, Cookpad, Japan — July 2013 (one month)

Publications

- Mozhi Zhang*, Yoshinari Fujinuma*, Michael J. Paul, Jordan Boyd-Graber: "Why Overfitting Isn't Always Bad: Retrofitting Cross-Lingual Word Embeddings to Dictionaries", ACL (short paper), 2020
- Mozhi Zhang, Yoshinari Fujinuma, Jordan Boyd-Graber: "Exploiting Cross-Lingual Subword Similarities in Low-Resource Document Classification", AAAI (long paper), 2020
- Yoshinari Fujinuma, Jordan Boyd-Graber, Michael J. Paul: "A Resource-Free Evaluation Metric for Cross-Lingual Word Embeddings based on Graph Modularity", ACL (long paper), 2019
- Dasha Pruss, Yoshinari Fujinuma, Ashlynn R. Daughton, Michael J. Paul, Brad Arnot, Danielle Albers Szafir, Jordan Boyd-Graber: "Zika discourse in the Americas: A multilingual topic analysis of Twitter", PLOS ONE, 2019
- Yoshinari Fujinuma, Alvin Grissom II: "Substring Frequency Features for Segmentation of Japanese Katakana Words with Unlabeled Corpora", IJCNLP (short paper), 2017

- Yoshinari Fujinuma, Hikaru Yokono, Pascual Martínez-Gómez, Akiko Aizawa: "Distant-supervised Language Model for Detecting Emotional Upsurge on Twitter", PACLIC (long paper), 2015

*denotes equal contribution

Current Projects

Cross-lingual Transfer from Multiple Languages 2020 - present

- Investigating better cross-lingual transfer from multiple source languages on token-level using language embeddings.

Joint Estimation of Word and Document Readability 2019 - present

- Proposing to use graph convolutional network to exploit recursive relationship between word and document difficulties for readability assessment.

Selected Past Projects

Intrinsic Evaluation Measure for Cross-Lingual Embeddings 2017 - 2019

- Developed a graph-based intrinsic measure to evaluate the quality of cross-lingual word embeddings.
- Paper link: `https://www.aclweb.org/anthology/P19-1489`

Finite State Transducer (FST) for Kuromoji 2015

- Replaced a double-array trie to an FST to build a dictionary for Kuromoji, a java-based Japanese tokenizer used in Lucene, Solr, and Elastic Search.
- Code available at `https://github.com/atilika/fst`

Academic Service

- Program Committee: EMNLP 2020, AACL-IJCNLP SRW 2020, ACL-SRW 2020, Workshop on Noisy User-Generated Text (W-NUT) 2020,2019
- Secondary Reviewer: ACL 2019, EMNLP 2017, WWW 2017

Academic Honors

- Travel Grant (CU Boulder) 2017
- Dean's Fellowship (CU Boulder) 2016
- Best Bachelor thesis in CS and Math (Gödel Foundation Prize) 2012

Computer and Language Skills

Languages:	Proficient: Python; Intermediate: C++, Java
Software:	PyTorch, Git, Vim, LaTeX, MySQL
English:	TOEFL iBT 101 (2015)
Domain-specific:	machine learning, natural language processing