

Yoshinari Fujinuma

Office Address

Virtual

Contact

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<http://akkikiki.github.io>

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Education

University of Colorado Boulder, USA Dec 2021
Ph.D. in Computer Science
Advisors
- Katharina Kann(2020-2021), Jordan Boyd-Graber(-2021), Michael J. Paul (-2019)

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

Applied Scientist, Amazon Web Services Inc, USA Sep 2021 - Present

Part-Time Instructor, Univ. of Colorado Boulder, USA Jan 2021 - May 2021
• CSCI 4622 Machine Learning
• Link: <https://github.com/akkikiki/CSCI-4622-Machine-Learning-sp21>

Teaching Assistant, Univ. of Colorado Boulder, USA Jan-Dec 2020, May-Jul 2021
• CSCI 2270 Data Structures

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

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

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

Software Development 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

- Yoshinari Fujinuma, Jordan Boyd-Graber, Katharina Kann: “Match the Script, Adapt if Multilingual: Analyzing the Effect of Multilingual Pretraining on Cross-lingual Transferability”, ACL (long) 2022
- Yoshinari Fujinuma, Masato Hagiwara: “Semi-Supervised Joint Estimation of Word and Document Readability”, TextGraphs-15@NAACL (short) 2021
- 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) 2020
- Mozhi Zhang, Yoshinari Fujinuma, Jordan Boyd-Graber: “Exploiting Cross-Lingual Subword Similarities in Low-Resource Document Classification”, AAAI 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) 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) 2017
- Yoshinari Fujinuma, Hikaru Yokono, Pascual Martínez-Gómez, Akiko Aizawa: “Distant-supervised Language Model for Detecting Emotional Upsurge on Twitter”, PACLIC (long) 2015

*denotes equal contribution

Selected Projects Analysis on Multilingual Pretraining 2020 - 2021

- Investigating the effect of using different pretraining languages
- Paper link: <https://arxiv.org/abs/2203.10753>

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/Reviewer:
 - 2022 AAAI, ACL Rolling Review
 - 2021 NAACL, ACL, EMNLP, CoNLL, ACL SRW, W-NUT, Workshop on NLP for Indigenous Languages of the Americas (AmericasNLP)
 - 2020 EMNLP, AACL SRW, ACL-SRW, W-NUT
 - 2019 Workshop on Noisy User-Generated Text (W-NUT)
- Secondary Reviewer:
 - 2019 ACL
 - 2017 EMNLP, WWW
- Student Volunteer: 2020 ACL

Academic Honors

- Departmental Travel Grant from CU Boulder (300 USD) 2017
- Graduate School Travel Grant from CU Boulder (500 USD) 2017
- Dean’s Fellowship from CU Boulder (1/2 of the yearly tuition and stipend) 2016
- Graduate School Travel Grant from Univ. of Tokyo (80,000 JPY) 2013
- Gödel Foundation Prize: Best Bachelor thesis in CS and Math (50,000 JPY) 2012
- Horie Takematsu and Koh Scholarship (2,000 USD) 2010
- Student Scholarship from ICU (1/3 of the yearly tuition) 2008-2012

**Computer and
Language Skills**

Languages:

Software:

English:

Domain-specific:

Proficient: Python; Intermediate: C++, Java

PyTorch, Git, Vim, L^AT_EX, MySQL

TOEFL iBT 101 (2015)

machine learning, natural language processing