

# Yoshinari Fujinuma

## Present Address

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Boulder, CO 80303

## Contact

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<http://akkikiki.github.io/about/>

## Education

University of Colorado Boulder, USA August 2016 - Present  
Advisor: Michael J. Paul; First year Computer Science PhD student

University of Tokyo, Japan Sep. 2014  
M.S. in Information Science and Technology  
Advisor: Akiko Aizawa; Thesis: Detecting Upsurge of Emotion Using Characteristic Expressions in Tweets

International Christian University, Japan March 2012  
B.A. in Computer Science and Mathematics  
Advisor: Grant Poghosyan; Thesis: Fault-Tolerant Packet Routing Algorithms on Hypercube Networks

## Experience

**Research Assistant**, University of Colorado Boulder, USA Aug. 2016 - Present

- Co-PIs: Jordan Boyd-Graber
- Domain-specific multilingual (including low-resource languages e.g., Uyghur, Haitian Creole) term extraction from a general domain corpus using distributional word embeddings and graph-based semi-supervised learning.

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

- Built JA/ZH language detector for search queries with recall > 0.8.
- Built a semi-supervised CRF-based Japanese query label tagger with F1 = 0.91.

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

- The first search engineer to intern at Amazon Japan.
- Detected Japanese-English transliteration pairs with F1 > 0.9 using EM algorithm.

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

- Built a dictionary with over 8000 product names for Japanese named entity extractor.
- Built transliteration generator from English to Japanese. Achieved around 60% in accuracy@1.

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

- Built a recommendation system for related topics on the community site. Accomplished approximately 1.5% of the whole user click rate. Ruby on Rails.

## Publications

- Yoshinari Fujinuma, Hikaru Yokono, Pascual Martínez-Gómez, Akiko Aizawa: “Distant-supervised Language Model for Detecting Emotional Upsurge on Twitter”, The 29th Pacific Asia Conference on Language, Information and Computation, Nov. 2015 (Peer-reviewed)
- Yoshinari Fujinuma: “Detecting Japanese-English Transliteration Pairs in Search Query and Clickthrough Logs”, Amazon Machine Learning Conference, May 2015 (Peer-reviewed)

<b>Projects</b>	<b>Extending multiview embeddings for Twitter users</b>	2016
	<ul style="list-style-type: none"> <li>• We extend the WGCCA-based user embeddings (<a href="https://github.com/abenton/wgcca">https://github.com/abenton/wgcca</a>) by incorporating additional user features.</li> <li>• Revealed that users who follow many users tend to follow more users.</li> </ul>	
	<b>Finite State Transducer (FST) for Kuromoji</b>	2015
	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Github link: <a href="https://github.com/atilika/fst">https://github.com/atilika/fst</a></li> </ul>	
<b>Academic Honors</b>	Dean's Fellowship (CU Boulder)	2016
	Best Bachelor thesis in CS and Math (Gödel Foundation Prize)	2012
<b>Computer and Language Skills</b>	<u>Languages:</u>	Proficient: Python, Java; Intermediate: C++, Pig, Go
	<u>Software:</u>	Git, Vim, L <sup>A</sup> T <sub>E</sub> X, MySQL
	<u>English:</u>	TOEFL iBT 101 (2015)