

Ryan Cotterell

CONTACT INFORMATION	Department of Computer Science Johns Hopkins University Hackerman 321 3400 North Charles Street Baltimore, Maryland 21218, USA	<i>mobile:</i> (213) 905-2260 <i>email:</i> ryan.cotterell@jhu.edu <i>www:</i> hubal.cs.jhu.edu/personal
EDUCATION	Johns Hopkins University Ph.D. in Computer Science Advisors: Jason Eisner and David Yarowsky	Spring 2019 (Expected)
	Ludwig-Maximilians-Universität München Visiting Ph.D. Student Advisor: Hinrich Schütze	2014-2016
	Johns Hopkins University M.S.E. in Computer Science Advisor: Chris Callison-Burch GPA: 4.0	
	Johns Hopkins University B.A. in Cognitive Science Minors: Linguistics Advisor: Colin Wilson GPA: 3.87 (<i>General Honors</i>) Major GPA: 4.0 (<i>Departmental Honors</i>)	Spring 2013
	Faculty of Liberal Arts and Sciences of St. Petersburg State University Study Abroad, St. Petersburg, Russia	Fall 2009
TEACHING	<i>Teaching Assistant</i> Johns Hopkins University Course: Automata and Computation Theory (600.271) Professor: Stephen Checkoway I managed three course assistants and held weekly office hours.	Spring Semester 2014
	<i>Teaching Assistant</i> Johns Hopkins University Course: Natural Language Processing (600.465) Professor: Jason Eisner I led weekly discussion sections to cement concepts and improve problem solving skills. I supervised three course assistants in grading the assignments.	Fall Semester 2013
GRANTS	<i>Grant title:</i> PURA (Provost Undergraduate Research Award) <i>Awarding body:</i> Johns Hopkins University. <i>Amount:</i> \$1,000. Awarded to investigate phonological opacity in Portuguese and Turkish.	
AWARDS	National Defense Science and Engineering Fellowship (NDSEG) 2016-2019 DAAD Long-term Research Grant, Germany	2015-2016

Fulbright Research Grant, Germany	2014-2015
George M.L. Sommerman Engineering Graduate Teaching Assistant Award Finalist	2014
Computer Science Department Outstanding Teaching Assistant	2014
Cognitive Science Undergraduate Research Award	2013

PUBLICATIONS

Refereed Journal Papers

1. Ryan Cotterell, Nanyun Peng, and Jason Eisner. [Modeling Word Forms Using Latent Underlying Morphs and Phonology](#). In TACL 2015.

Refereed Conference Papers

2. Ryan Cotterell, Tim Vieira and Hinrich Schütze. [A Joint Model of Orthography and Morphological Segmentation](#). In NAACL 2016 (Short Papers).
3. Pushpendre, Ryan Cotterell and Jason Eisner. [Weighting Finite-State Transductions With Neural Context](#). In NAACL 2016.
4. John Sylak-Glassman and Ryan Cotterell. [Contrastive Morphological Typology and Logical Hierarchies](#). In Chicago Linguistic Society 2016.
5. Nanyun Peng, Ryan Cotterell and Jason Eisner. [Dual Decomposition for Graphical Models over Strings](#). In EMNLP 2015.
6. Thomas Müller, Ryan Cotterell, Alexander Fraser and Hinrich Schütze. [Joint Lemmatization and Morphological Tagging with LEMMING](#). In EMNLP 2015 (Short Papers).
7. Ryan Cotterell, Thomas Müller, Alexander Fraser and Hinrich Schütze. [Labeled Morphological Segmentation with Semi-Markov Models](#). In CoNLL 2015.
8. Ryan Cotterell and Jason Eisner. [Penalized Expectation Propagation for Graphical Models over Strings](#). In NAACL 2015.
9. Ryan Cotterell and Hinrich Schütze. [Morphological Word Embeddings](#). In NAACL 2015 (Short Papers).
10. Ryan Cotterell, Nanyun Peng, and Jason Eisner. [Stochastic Contextual Edit Distance and Probabilistic FSTs](#). In ACL 2014 (Short Papers).
11. Ryan Cotterell and Chris Callison-Burch. [A Multi-Dialect, Multi-Genre Corpus of Informal Written Arabic](#). In LREC 2014.

Refereed Workshop Papers

12. Gaurav Kumar, Yuan Cao, Ryan Cotterell, Chris Callison-Burch, Daniel Povey and Sanjeev Khudanpur. [Translation of the CALLHOME Egyptian Arabic Corpus For Conversational Speech Translation](#). In IWLST 2014.
13. Ryan Cotterell, Adithya Renduchintala, Naomi Saphra, and Chris Callison-Burch. [An Algerian Arabic-French Code-Switched Corpus](#). In LREC-2014 Workshop on Free/Open-Source Arabic Corpora and Corpora Processing Tools.

Technical Reports

14. David Etter, Francis Ferraro, Ryan Cotterell, Olivia Buzek, and Benjamin Van Durme. [Nerit: Named Entity Recognition for Informal Text](#). Technical Report 11. Human Language Technology Center of Excellence, Johns Hopkins University. July, 2013.

INVITED TALKS

1. Modeling Word Forms Using Latent Underlying Morphs and Phonology. Universität Tübingen. July, 2016.
2. Modeling Word Forms Using Latent Underlying Morphs and Phonology. Xerox Research Centre Europe. December, 2015.
3. Modeling Word Forms Using Latent Underlying Morphs and Phonology. Priberam Labs. September, 2015.
4. A Probabilistic Approach to Synchronic Phonology. Institut für Phonetik und Sprachverarbeitung, LMU. November, 2014.

SERVICE

Journal Reviewer: *Computational Linguistics* (2015)
Conference Reviewer: NAACL 2016, ACL 2016, EMNLP 2016, COLING 2016, AAAI 2016 (secondary)
CLSP Happy Hour Coordinator

REFERENCES

Jason Eisner (jason@cs.jhu.edu), Johns Hopkins University
David Yarowsky (yarowsky@jhu.edu), Johns Hopkins University
Colin Wilson (wilson@cogsci.jhu.edu), Johns Hopkins University

SKILLS

Programming Languages: Java, Perl, Python, Cython, Ocaml, Lisp, C, C++, R, Scala

Languages: English, German, Spanish, Russian, Portuguese

Graduate Coursework: Natural Language Processing, Speech Processing, Machine Learning, Artificial Intelligence, Programming Language Theory, Non-linear Optimization, Stochastic Optimization, Neural Networks, Real Analysis, Software Engineering.