

## 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	<b>Johns Hopkins University</b> Ph.D. in Computer Science Advisors: Jason Eisner and David Yarowsky	Spring 2019 (Expected)
	<b>Ludwig-Maximilians-Universität München</b> Visiting Ph.D. Student Advisors: Hinrich Schütze	2014-2016
	<b>Johns Hopkins University</b> M.S.E. in Computer Science Advisor: Chris Callison-Burch GPA: 4.0	
	<b>Johns Hopkins University</b> 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
	<b>Faculty of Liberal Arts and Sciences of St. Petersburg State University</b> 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.	<b>Spring Semester 2014</b>
	<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.	<b>Fall Semester 2013</b>
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	<ol style="list-style-type: none"> <li>1. A Probabilistic Approach to Synchronic Phonology. Institut für Phonetik und Sprachverarbeitung, LMU. November, 2014.</li> <li>2. Modeling Word Forms Using Latent Underlying Morphs and Phonology. Priberam Labs. September, 2015.</li> <li>3. Modeling Word Forms Using Latent Underlying Morphs and Phonology. Xerox Research Centre Europe. December, 2015.</li> </ol>
SERVICE	<p>Journal Reviewer: <i>Computational Linguistics</i> (2015)</p> <p>Conference Reviewer: NAACL 2016, ACL 2016, EMNLP 2016, AAAI 2016 (secondary)</p> <p>CLSP Happy Hour Coordinator</p>
REFERENCES	<p>Jason Eisner (<a href="mailto:jason@cs.jhu.edu">jason@cs.jhu.edu</a>), Johns Hopkins University</p> <p>David Yarowsky (<a href="mailto:yarowsky@jhu.edu">yarowsky@jhu.edu</a>), Johns Hopkins University</p> <p>Colin Wilson (<a href="mailto:wilson@cogsci.jhu.edu">wilson@cogsci.jhu.edu</a>), Johns Hopkins University</p>
SKILLS	<p><b>Programming Languages:</b> Java, Perl, Python, Cython, Ocaml, Lisp, C, C++, R, Scala</p> <p><b>Languages:</b> English, German, Spanish, Russian, Portuguese</p> <p><b>Graduate Coursework:</b> Natural Language Processing, Speech Processing, Machine Learning, Artificial Intelligence, Programming Language Theory, Non-linear Optimization, Stochastic Optimization, Neural Networks, Real Analysis, Software Engineering.</p>