

**Full Name:** Ethan Gotlieb Wilcox  
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### Education

2017-5/18-8/18 PhD Candidate in Linguistics, Harvard University, Cambridge MA  
Visiting Student, Department of Cognitive Science, Ecole Normale Supérieure, Paris, France  
2011-2015 B.A.S in Symbolic Systems and Slavic Languages and Literatures with Honors  
Stanford University, Stanford CA

### Full-Time Professional Positions

10/16-8/17 Computational Linguist, Transcendent Endeavors, New York, NY  
10/15-10/16 Translator, Gotlieb & Lion LLC; Carnegie Moscow Center, Moscow & Remote

### Publications

2019 Aixiu An, Peng Qian, **Ethan Wilcox**, and Roger Levy. *Representation of Constituents in Neural Language Models: Coordination Phrase as a Case Study*. Accepted to EMNLP, Hong Kong, China  
2019 **Ethan Wilcox**, Roger Levy and Richard Futrell. *Hierarchical Representation in Neural Language Models: Suppression and Recovery of Expectations*. BlackboxNLP 2019.  
2019 **Ethan Wilcox**, Roger Levy and Richard Futrell. *What Syntactic Structures block Dependencies in RNN Language Models?* CogSci 2019.  
2019 **Ethan Wilcox** and Benjamin Spector. *The Role of Prior Beliefs in The Rational Speech Act Model of Pragmatics: Exhaustivity as a Case Study*. CogSci 2019.  
2019 **Ethan Wilcox**, Peng Qian, Richard Futrell, Miguel Ballesteros, Roger Levy. *Structural Supervision Improves Learning for Non-Local Dependencies*. NAACL-HLT 2019  
2019 Richard Futrell, **Ethan Wilcox**, Takashi Morita, Miguel Ballesteros, Roger Levy. *Neural Language Models as Psycholinguistic Subjects: Representation of Syntactic State*. NAACL-HLT 2019  
2018 **Ethan Wilcox**, Roger Levy, Takashi Morita and Richard Futrell. *What do RNN Language Models Learn about the Filler-Gap Dependency*, Proceedings of Blackbox NLP, ACL.  
2018 Richard Futrell, **Ethan Wilcox**, Takashi Morita, Roger Levy, *RNNs as Psycholinguistic Subjects: Syntactic State and Grammatical Dependency*  
2015 **Ethan Wilcox**. *Revolutionary Linguistics: The Ideology of the Soviet Esperanto Movement 1917-1938*. BA Honors Thesis, Stanford University

### Presentations

- 2-5/19 *Neural Network Language Models as Psycholinguistic Subjects: The case of Filler-Gap Dependencies.*
- Discussion Group on Computation and Linguistics, MIT, Cambridge MA (5/19)
  - Mind Brain Behavior Lunch Series, Department of Psychology, Harvard University, Cambridge MA (3/19).
  - Language and Cognition, Department of Psychology, Harvard University, Cambridge MA (3/19)
  - Workshop on Developing and Evaluating Neural and Symbolic Architectures for Language Modeling, MIT, Cambridge MA. (2/19)
- 4/19 *Structural Supervision Improves Learning for Non-Local Dependencies.* LingedIn Workshop, Harvard University, Cambridge MA.
- 3/19 *The Role of Prior Beliefs in The Rational Speech Act Model of Pragmatics: Exhaustivity as a Case Study.* Meaning and Modality Lab Meeting, Harvard University, Cambridge MA.
- 2/19 *Using Structure to Predict the next Word: What RNN Language Models Learn about Syntax*
- Computation and Psycholinguistics Lab, Johns Hopkins, MD
  - CogLunch, MIT, Cambridge MA
- 11/18 *When A means A & B: Exploring the Role of Priors in Recursive Pragmatic Models.* LingedIn, Harvard University
- 11/18 *What do RNN Language Models Learn about the Filler-Gap Dependency?*
- Blackbox NLP Workshop, Empirical Methods in Natural Language Processing, Brussels, Belgium (Paper Presentation)
  - Meaning and Modality Lab, Harvard University, Cambridge, MA
  - Computational Psycholinguistics Lab Meeting, MIT, Cambridge MA
  - Psycholinguistics and Cognitive Science Laboratory, Ecole Normale Supérieure, Paris, France
- 3/18 *What do Neural Networks Learn about Wh-Movement?* LingedIn, Harvard University, Cambridge MA

**Conference Presentations** (\* indicates peer-reviewed)

- 7/2019 \* Ethan Wilcox, Roger Levy and Richard Futrell. *What Syntactic Structures block Dependencies in RNN Language Models?* CogSci 2019.
- 7/2019 \* Ethan Wilcox and Benjamin Spector. *The Role of Prior Beliefs in The Rational Speech Act Model of Pragmatics: Exhaustivity as a Case Study.* CogSci 2019.
- 7/2019 \* Ethan Wilcox. *Testing Gender Markedness of Nouns with Self a Paced Reading Study.* CogSci, 2019.
- 7/2019 \* Ethan Wilcox. *Phonological Cues to Syntactic Structure in a Large-Scale Corpus.* CogSci 2019.
- 6/2019 \* Richard Futrell, Ethan Wilcox, Takashi Morita, Miguel Ballesteros, Roger Levy. *Neural Language Models as Psycholinguistic Subjects: Representation of Syntactic State.* NAACL-HLT 2019

- 6/2019 \* Ethan Wilcox, Peng Qian, Richard Futrell, Miguel Ballesteros and Roger Levy. *Syntactic Structure Aids Learning of Grammatical Dependencies in Neural Networks*. NAACL-HLT 2019.
- 5/2019 Ethan Wilcox, Peng Qian, Richard Futrell, Miguel Ballesteros and Roger Levy. *Syntactic Structure Aids Learning of Grammatical Dependencies in Neural Networks*. IBM Watson AI Lab Poster Reception
- 3/2019 \* Ethan Wilcox, Peng Qian, Richard Futrell, Miguel Ballesteros, Roger Levy. *Syntactic Structure aids Learning of Grammatical Dependencies in Neural Networks*. CUNY Sentence Processing Conference, Boulder CO
- 3/2019 \* Richard Futrell, Ethan Wilcox, Takashi Morita, Miguel Ballesteros, Roger Levy. *Large neural network language models learn representations of incremental parse states*. CUNY Sentence Processing Conference, Boulder CO
- 11/18 Ethan Wilcox, Peng Qian, Richard Futrell, Miguel Ballesteros, Roger Levy. *Targeted Syntactic Analysis of RNNs and LSTMs*. Symposium on Robust, Interpretable, Deep Learning Systems, MIT, Cambridge MA
- 10/18 Roger Levy, Miguel Ballesteros, Peng Qian, Ethan Wilcox. *Hierarchically Structured Symbolic Architectures with Neural Control for Robust and Human-like Natural Language Parsing*, IBM AI Research Horizons, MIT, Cambridge MA

#### **Grants & Awards**

- 2018 Graduate Student Award, Mind Brain Behavior Initiative, Harvard University (\$7,700)
- 2015 Best Honors Thesis Award, Division of Languages Cultures and Literatures, Stanford University
- 2013 Major Language Study Grant, Division of Languages, Cultures and Literatures, Stanford University (\$10,000)
- 2012 Minor Language Study Grant, Department of Slavic Languages and Literatures, Stanford University (\$3,000)

#### **Internships & Fellowships:**

- 2018 0213eight Data Science Fellow, Harvard University, Cambridge MA
- 2015 Front-end Web Engineer summer Internship, Omixy Inc., Paris, France
- 2014 Product Quality Engineer summer Internship, Palantir, Palo Alto, CA
- 2013 Summer Intensive, Russian Language, Presidential Academy of National Economy, Moscow, Russia

#### **Selected Translations** (all work co-translated with Mikhail Lion)

- 2018 “Sanctions and Retaliation: Where Russia-U.S. Relations are Headed” Andrey Movchan, Carnegie Center Moscow
- 2017 “Is Putin Losing Control of Russia’s Conservative Nationalists?” Alexander Baunov, *Foreign Affairs*  
*Nominated: Open Russia, Journalism as a Profession best Opinion Article, 2017*
- 2017 “The Accidental Formation of Russia’s War Coalition” Konstantin Gaaze, Carnegie Center Moscow.

- 2016 *Winner: Open Russia, Journalism as a Profession Award, Best Opinion Article, 2017*  
 “The Snow Queen” by Evgeny Schwartz (stage play), produced by Dacha Theater / Lesser Known Players, Seattle WA
- 2016 “Going to the People -- and Back Again: The Changing Shape of the Russian Regime” (white paper) by Alexander Baunov, Carnegie Center Moscow

#### **Academic Service**

- 2018-present Graduate Student Representative, Department of Linguistics, Harvard University
- 2018-2019 Chair, Admitted Students Welcome Committee, Department of Linguistics, Harvard
- 2017-2018 Event Organizer, Harvard Graduate Students in Linguistics, Harvard University
- 2013-2015 Academic Theme Associate, Slavianskii Dom, Stanford University
- 2013-2015 Writing Tutor, Structured Liberal Education, Stanford University
- 2013-2014 Undergraduate Representative to the Breadth Governance Board, Stanford University

#### **Teaching**

- 2015 “Adaptations of Slavic Folktales” Slavianskii Dom, Stanford University
- 2014 “Russian Architecture through the Ages” Slavianskii Dom, Stanford University
- 2013 “Russian Plays: Chekhov and Kharmis” Slavianskii Dom, Stanford University