

Ellie Pavlick

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PROFESSIONAL APPOINTMENTS

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| Assistant Professor, Brown University
Department of Computer Science | July 2018 - Present |
| Postdoctoral Fellow, Google AI
Project: Modeling Entailment and Bias in Yes-No Questions
Manager: Tom Kwiatkowski, Dipanjan Das | July 2017 - July 2018 |

EDUCATION

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| University of Pennsylvania
Ph.D., Computer and Information Science
Thesis: <i>Compositional Lexical Entailment for Natural Language Inference</i>
Committee: Chris Callison-Burch (advisor), Lyle Ungar (chair), Mitchell Marcus, Ido Dagan, Florian Schwarz | July 2017 |
| The Johns Hopkins University
Bachelor of Arts, Economics
Bachelor of Music, Saxophone Performance | May 2012 |

SELECTED PUBLICATIONS

- *What do you learn from context? Probing for sentence structure in contextualized word representations.* Tenney et al., ICLR 2019.
- *Identifying 1950s American Jazz Composers: Fine-Grained IsA Extraction via Modifier Composition.* Pavlick and Pasca, ACL 2017.
- *So-Called Non-Subsecutive Adjectives.* Pavlick and Callison-Burch, *SEM 2016. (Best Paper Award)
- *Most babies are little and most problems are huge: Compositional Entailment in Adjective Nouns.* Pavlick and Callison-Burch, ACL 2016.
- *The Paraphrase Database (PPDB) 2.0: Better Paraphrase Ranking, Fine-grained Entailment Relations, Word Embeddings, and Style Classification.* Pavlick et al., ACL 2015.

TEACHING

- **Data Science**
Spring 2019, Brown University (CSCI 1951-A)
- **Computational Semantics**
Fall 2018, Brown University (CSCI 2952-D)
- **Crowdsourcing and Human Computation, Teaching Assistant/Co-Instructor**
Spring 2016, University of Pennsylvania (NETS 213)
Fall 2014, University of Pennsylvania (NETS 213)
Fall 2013, University of Pennsylvania (CIS 399)

AWARDS, FELLOWSHIPS, AND GRANTS

- *SEM 2016 Best Paper Award. *So-Called Non-Subsective Adjectives*.
- Facebook Ph.D. Fellowship. *Meaning Variation in Paraphrase*. 2016–2018.
- The Allen Institute of Artificial Intelligence (AI2) Academic Sub-contractor. *Natural Logic Solver for Aristo*. With Chris Callison-Burch. 2015–2016. \$95,000.
- Amazon Academic Rewards Program. *Matrix Factorization for Low Resource Machine Translation*. With Chris Callison-Burch. 2016. \$68,409.

ADDITIONAL WORK EXPERIENCE

Intern, Google Research

Project: Interpreting Multiword Noun Modifiers

Mentor: Marius Pasca

July - September 2016

Intern, Yahoo Research

Project: Modeling Formality in Online Communication

Mentor: Joel Tetreault

July - September 2015

Intern, Allen Institute for Artificial Intelligence

Project: Lexical Entailment for Question Answering

Mentors: Peter Clark, Niranjan Balasubramanian

June - August 2014

INVITED TALKS

- International Conference on Computational Semantics (IWCS), Keynote Speaker, Summer 2019.
- New England Machine Learning Day, Summer 2019.
- Harvard Linguistics Universals Colloquium Series, Spring 2019.
- University of Rochester Cognitive Science Dinner. November 2018.
- UMass Amherst Machine Learning and Friends Lunch. October 2018.
- *SEM/SemEval, Keynote Speaker. June 2018.
- New Deep Learning Techniques Workshop. February 2018.
- Georgetown Computational Linguistics Colloquium. January 2018.
- NYU Semantics Group. October 2017.
- Cornell Tech Connective Media Seminar. April 2017.
- UW Madison, Computer Science Seminar. April 2017.
- Princeton, Computer Science Colloquium. March 2017.
- Carnegie Mellon Language Technology Institute Colloquium. March 2017.
- NYU, Computer Science Seminar. March 2017.
- University of Michigan, School of Information Seminar. March 2017.
- University of Michigan, Computer Science Seminar, March 2017.
- USC Computer Science Colloquium. February 2017.
- Columbia University Computer Science Colloquium. February 2017.
- UC Santa Cruz Computer Science Colloquium. February 2017.
- Toyota Technical Institute of Chicago Colloquium. February 2017.
- UT Austin, Linguistics Seminar. January 2017.
- CU Bolder Computer Science Colloquium. January 2017.

- Temple University, Computer & Information Sciences Colloquium. November 2016.
- Rutgers University, *What is CogSci?* Series. October 2016.
- Johns Hopkins University, Knowledge Discovery in Text. October 2016.
- University of California Berkeley NLP Seminar, September 2016.

PROFESSIONAL ACTIVITIES

- **Team Co-Lead.** Workshop on General Purpose Sentence Representation Learning, Johns Hopkins Summer Workshop on Language Technology (JSALT) 2018.
- **Area Chair** Sentence-Level Semantics, Association for Computational Linguistics (ACL) 2018.
- **Workshop Co-Organizer** Mid-Atlantic Student Colloquium (MASC) 2016.
- **Workshop Co-Organizer** Student Research Workshop (SRW) at ACL-IJCNLP 2015.
- **Tutorial Co-Lead.** Crowdsourcing for NLP at NAACL 2015.
- **Journal Reviewer** Transactions of the Association of Computational Linguistics (TACL), Computational Linguistics (CL)
- **Conference Reviewer** ACL, EMNLP, NAACL, EACL, ICLR, *SEM, AACL, WNUT, RepEval

CONFERENCE PUBLICATIONS

1. Ian Tenney, Patrick Xia, Berlin Chen, Alex Wang, Adam Poliak, Benjamin Van Durme, Sam Bowman, Dipanjan Das, **Ellie Pavlick**. *What do you learn from context? Probing for sentence structure in contextualized word representations*. In ICLR, New Orleans, Louisiana, May 2019.
2. **Ellie Pavlick**, Maanal Faruqi, Ian Tenney, and Dipanjan Das. *AtomicWikiEdits: A Multilingual Corpus of Wikipedia Edits for Modeling Language and Discourse*. In EMNLP, Brussels, Belgium, October 2018.
3. Adam Poliak, Aparajita Haldar, Rachel Rudinger, J. Edward Hu, **Ellie Pavlick**, Aaron Steven White, and Benjamin Van Durme. *Collecting Diverse Natural Language Inference Problems for Sentence Representation Evaluation*. In EMNLP, Brussels, Belgium, October 2018.
4. Anne Cocos, Veronica Wharton, Marianna Apidianaki, **Ellie Pavlick**, and Chris Callison-Burch. *Learning Scalar Adjective Intensity from Paraphrases*. In EMNLP, Brussels, Belgium, October 2018.
5. **Ellie Pavlick** and Marius Pasca. *Identifying 1950s American Jazz Composers: Fine-Grained ISA Extraction via Modifier Composition*. In ACL, Vancouver, Canada, August 2017.
6. **Ellie Pavlick** and Chris Callison-Burch. *Most babies are little and most problems are huge: Compositional Entailment in Adjective Nouns*. In ACL, Berlin, Germany, August 2016.
7. **Ellie Pavlick** and Chris Callison-Burch. *So-Called Non-Subsective Adjectives*. In *SEM (short papers), Berlin, Germany, August 2016. (Best Paper Award)
8. **Ellie Pavlick** and Chris Callison-Burch. *Tense Manages to Predict Implicative Behavior in Verbs*. In EMNLP, Austin, Texas, October 2016 (Short papers).
9. **Ellie Pavlick** and Chris Callison-Burch. *Simple PPDB: A Paraphrase Database for Simplification*. In ACL, Berlin, Germany, August 2016 (Short papers).
10. **Ellie Pavlick** and Chris Callison-Burch. *The Gun Violence Database: A New Task and Dataset for NLP*. In EMNLP, Austin, Texas, October 2016 (Short papers).
11. **Ellie Pavlick**, Johan Bos, Malvina Nissim, Charley Beller, Benjamin Van Durme, Chris Callison-Burch. *Adding Semantics to Data-Driven Paraphrasing*. In ACL, Beijing, China, July 2015.
12. **Ellie Pavlick**, Juri Ganitkevich, Benjamin Van Durme, Chris Callison-Burch. *Domain-Specific Paraphrase Extraction*. In ACL, Beijing, China, July 2015 (Short papers).

13. **Ellie Pavlick**, Juri Ganitkevich, Pushpendre Rastogi, Benjamin Van Durme, Chris Callison-Burch. *PPDB 2.0: Better Paraphrase Ranking, Fine-grained Entailment Relations, Word Embeddings, and Style Classification*. In ACL, Beijing, China, July 2015 (Short papers).
14. **Ellie Pavlick** and Ani Nenkova. *Inducing Lexical Style Properties for Paraphrase and Genre Differentiation*. In NAACL, Denver, Colorado, June 2015 (Short papers).
15. **Ellie Pavlick**, Travis Wolfe, Pushpendre Rastogi, Benjamin Van Durme, Mark Drezde, Chris Callison-Burch. *FrameNet+: Fast Paraphrastic Tripling of FrameNet*. In ACL, Beijing, China, July 2015 (Short papers).
16. Rui Yan, Mingkun Gao, **Ellie Pavlick**, Chris Callison-Burch. *Are Two Heads Better than One? Crowdsourced Translation via a Two-Step Collaboration between Translators and Editors*. In ACL, Baltimore, Maryland, July 2014.

JOURNAL PUBLICATIONS

1. **Ellie Pavlick** and Tom Kwiatkowski. *Inherent Disagreements in Human Judgments of Entailment*. In TACL, 2018 (Under Review).
2. **Ellie Pavlick** and Joel Tetreault. *An Empirical Analysis of Formality in Online Communication*. In TACL, 2016.
3. Wei Xu, Courtney Napoles, **Ellie Pavlick**, Quanze Chen, Chris Callison-Burch. *Optimizing Statistical Machine Translation for Simplification*. In TACL, 2016.
4. **Ellie Pavlick**, Matt Post, Ann Irvine, Dmitry Kachaev, Chris Callison-Burch. *The Language Demographics of Amazon Mechanical Turk*. In TACL, 2014.

WORKSHOP PAPERS

1. Nicholas Tomlin and **Ellie Pavlick**. *Incremental Pragmatics and Emergent Communication*. In Emergent Communication Workshop at NeurIPS, Montreal, Canada, December 2018.
2. **Ellie Pavlick** and Chris Callison-Burch. *The Gun Violence Database*. In Data for Good Exchange (d4gx), New York, New York, September 2016.
3. **Ellie Pavlick** and Chris Callison-Burch. *Extracting Structured Information via Automatic+Human Computation*. In HCOMP, San Diego, California, November 2015 (Works-in-progress).
4. Anne Cocos, Aaron J. Masino, Ting Qian, **Ellie Pavlick**, Chris Callison-Burch. *Effectively Crowdsourcing Radiology Report Annotations*. In Proceedings of the Sixth International Workshop on Health Text Mining and Information Analysis, Lisbon, Portugal, September 2015.
5. **Ellie Pavlick**, Rui Yan, Chris Callison-Burch. *Crowdsourcing for Grammatical Error Correction*. In CSCW, Baltimore, Maryland, February 2014 (Interactive poster).
6. Quanze Chen, Chenyang Lei, Wei Xu, **Ellie Pavlick**, Chris Callison-Burch. *Poetry of the Crowd: A Human Computation Algorithm to Convert Prose into Sonnets*. In HCOMP, Pittsburg, Pennsylvania, November 2014 (Works-in-progress).
7. Steven Tobochnik, **Ellie Pavlick**, Camilo Gutierrez, Mercedes Jacobson. *EEG Scalp Potential Computer Simulation*. In Annual Meeting of the American Clinical Neurophysiology Society, Miami, Florida, February 2013.