

Institutions

Georgetown University

August 2016–Present

Assistant Professor of Linguistics and Computer Science
Georgetown College
Washington, DC

Leading interdisciplinary research in and teaching computational linguistics; director of the [NERT](#) lab

University of Edinburgh

September 2014–July 2016

Institute for Language, Cognition and Computation
School of Informatics
Edinburgh, Scotland, UK

Postdoctoral researcher with [Mark Steedman](#).

Research topic: computational modeling of grammar and meaning

Carnegie Mellon University

August 2008–August 2014

Language Technologies Institute
School of Computer Science
Pittsburgh, PA

Ph.D. work in statistical natural language processing, advised by [Noah Smith](#).

Research topics: machine learning for NLP, semantics, named entity recognition, corpus annotation, social media text, nonnative writing, Arabic NLP, text visualization

Dissertation: [Lexical Semantic Analysis in Natural Language Text](#). (Defended June 19, 2014; submitted September 30, 2014.)

Information Sciences Institute,

June 2012–August 2012

University of Southern California
Los Angeles, CA

Summer research intern with [Kevin Knight](#).

Research topic: semantics for machine translation

University of California, Berkeley

August 2004–May 2008

Berkeley, CA

B.A. with High Honors; Double Major in Computer Science (with Honors), Linguistics

Honors: Phi Beta Kappa; Computer Science Faculty Commendation

Research topics: construction grammar formalisms, Hebrew morphology, semantics, metonymy recognition, statistical news analysis

Thesis: “Hebrew Verb Morphology and Embodied Construction Grammar”

Industry experience

Microsoft

May 2007–August 2007

Redmond, WA

Role: Software Development Intern

In the Office Sharepoint Search group, worked on designing and implementing a new feature for the next version of Office

Convergys
Cincinnati, OH

June 2006–August 2006

Role: Software Intern

Involved in various aspects of the planning, development, and testing phases of customizations of a Java web application

CAD Centric Systems
Cincinnati, OH

June 2003–July 2003

Role: Software Intern

Web design work, including use of Macromedia Flash

Research funding

- BSF: Towards Universal Parsing of Predicate-Argument Relations (co-PI Omri Abend). \$75K over 2 years, 2017–19.
- GU Research Infrastructure Award (with Nazli Goharian). \$20K for hardware, Dec. 2017.

Teaching

Cognitive Grammar (LING-485)
Georgetown University

Spring 2018

Cognitive-functional accounts of how grammar structures meaning. Co-taught with Lourdes Ortega.

Algorithms for Natural Language Processing (COSC/LING-272)
Georgetown University

Fall 2017

Undergraduate-level survey of NLP.

Corpus Linguistics
2017 Linguistic Institute, Lexington, KY, July 5–August 1

Summer 2017

Introduction to corpus analysis and annotation for syntax and semantics, focusing on the social media domain. Co-taught with Amir Zeldes.

Advanced Semantic Representation (COSC/LING-672)
Georgetown University

Spring 2017

In-depth graduate-level exploration of representations, data, and algorithms for sentence semantics.

Empirical Methods in Natural Language Processing (COSC/LING-572)
Georgetown University

Fall 2016, Spring 2018

Graduate-level survey of NLP focusing on statistical methods.

Foundations of Natural Language Processing (INFR09028)
University of Edinburgh

Spring 2016

Co-taught this course for third-year undergraduates (along with Sharon Goldwater)

Natural Language Processing (11-411)
Carnegie Mellon University

Spring 2011

Role: Teaching assistant

Lectures: Lexical Semantics; Semantic Role Labeling and Relational Semantics

Advanced NLP Seminar (11-713)
Carnegie Mellon University

Spring 2010

Role: Teaching assistant

Neural Basis of Thought and Language (CS C182)

University of California, Berkeley

Spring 2008

Role: Course reader

Lecture: A Symbolic Formalism for Embodied Grammar

Structure and Interpretation of Computer Programs (CS 61A)

University of California, Berkeley

Spring 2006

Role: Lab assistant

Advising

Georgetown thesis supervision

- Julie Hockett, CS undergraduate, “Detecting and Using Buzz from Newspapers to Understand Patterns of Movement” (2017; co-supervised with Lisa Singh)

Georgetown thesis committees

- Angela Yang, CS undergraduate, “A Contextual Approach to Dynamic Search and Topic Change” (2017; supervised by Grace Hui Yang)
- Arman Cohan, CS Ph.D., “Text Summarization and Categorization in Scientific and Medical Domains” (2018; supervised by Nazli Goharian)
- Jiyun Luo, CS Ph.D., “Modeling Dynamic Search and Browsing” (2018; supervised by Grace Hui Yang)

Georgetown graduate students

- Ph.D. advisor for:
 - Austin Blodgett, Linguistics (2016—)
 - Jakob Prange, CS (2017—)
- Research mentor for:
 - Lucia Donatelli, Spanish Linguistics Ph.D. (since Summer 2017)
 - Emma Manning, Linguistics Ph.D. (RAship, Spring 2018)

Other Georgetown research advisees (non-thesis)

- Joseph Ledford (CS undergraduate): Spring 2017, Summer 2017
- Max Kim (CS undergraduate): Spring 2017
- Elijah Schulman (high school intern): Summer 2017
- Clarissa Somers (CS/Linguistics undergraduate): Spring 2018, Summer 2018

Edinburgh MSc thesis project supervision

- Marco Damonte, “Machine Translation with Coarse Lexical Semantics” (2015; co-supervised with Alexandra Birch)
- Nora Hollenstein, “Inconsistency Detection in Semantic Annotation” (2015; co-supervised with Bonnie Webber)
- Ye Yang, “Recognizing Annotator Behavior in Crowdsourcing” (2015; co-supervised with Bonnie Webber)
- Felisia Loukou, “Light Verb Constructions in Distributional Entailment Graphs” (2016; co-supervised with Mark Steedman and Omri Abend)
- Ida Szubert, “Methods for Automatic Alignment of Abstract Meaning Representation and Dependency Grammar” (2016; co-supervised with Adam Lopez)

Edinburgh committee member

- Liane Guillou (Edinburgh Informatics Ph.D. student 3rd year review, 2015-01-22)
- Federico Fancellu (Edinburgh Informatics Ph.D. student 1st year review, 2015-09-30)

Tutorials

The Logic of AMR: Practical, Unified, Graph-Based Sentence Semantics for NLP 2015-05-31
NAACL-HLT conference, Denver, CO

Co-presenters: Jeffrey Flanigan, Tim O’Gorman
Length: 3 hours

Getting the Roles Right: Using FrameNet in NLP 2015-05-31
NAACL-HLT conference, Denver, CO

Co-presenters: Collin Baker, Miriam R. L. Petruck, Michael Ellsworth
Length: 3 hours

Presentations

- Hannah Rohde, Alexander Johnson, Nathan Schneider, and Bonnie Webber. Choosing among alternatives: Conjunction variability comes from both inference and the semantics of discourse adverbials. Talk at TextLink 2018, Toulouse, France (Mar. 2018) [presented by Hannah Rohde].
- Bonnie Webber, Hannah Rohde, Anna Dickinson, Annie Louis, and Nathan Schneider. Hidden AND in plain sight? Implicit and explicit relations cooperate in the construction of meaning in discourse. Talk at GURT 2018: Approaches to Discourse (Mar. 2018).
- Bonnie Webber, Hannah Rohde, Anna Dickinson, Annie Louis, and Nathan Schneider. Explicit discourse connectives / implicit discourse relations. Talk at SCiL, Salt Lake City, UT (Jan. 2018).
- Jena D. Hwang, Archana Bhatia, Na-Rae Han, Tim O’Gorman, Vivek Srikumar, and Nathan Schneider. Double trouble: the problem of construal in semantic annotation of adpositions.
 - Poster at Linguistic Institute, Lexington, KY (2017-07-21).
 - Poster at SCiL, Salt Lake City, UT (Jan. 2018).
- Jena D. Hwang, Archana Bhatia, Na-Rae Han, Tim O’Gorman, Vivek Srikumar, and Nathan Schneider. Coping with construals in broad-coverage semantic annotation of adpositions. Talk at AAI Spring Symposium on Construction Grammar and NLU, Stanford, CA (Mar. 2017).
- **Computational Linguistics & Cognitive Science.** Guest lecture to GU Cognitive Science seminar ICOS-710 (2017-10-12).
- **The Ins and Outs of Preposition Semantics: Challenges in Comprehensive Corpus Annotation and Automatic Disambiguation**
 - Virginia Tech NVC CS (2018-04-13).
- **The Ins and Outs of Preposition Semantics: Challenges of Coverage and Cross-linguistic Adequacy**
 - UMD College Park CLIP Colloquium (2016-09-21).
 - University of Central Florida CS (2016-12-12).
 - JHU CLSP (2017-02-21).
 - Army Research Lab (2017-06-22).
 - University of Utah CS (2018-01-08).
- **The Case for a Coarse-Grained Multilingual Representation of Case and Adposition Semantics**
 - Invited talk at the [Workshop on Multilingual and Cross-lingual Methods in NLP](#), NAACL-HLT, San Diego (2016-06-17).

- **Dealing With Off-the-Charts Polysemy in English Prepositions: Representation, Annotation, and Disambiguation.**
 - Saarland University FEAST series (2015-10-20).
 - Hebrew University of Jerusalem (2015-12-29).
 - Bar-Ilan University (2016-01-04).
- [Struggling with English prepositional verbs](#). Talk at ICLC 2015, Newcastle, England.
- **Hacking a Way Through the Twitter Language Jungle: Syntactic Annotation, Tagging, and Parsing of English Tweets.** Keynote at [Workshop on Natural Language Processing for Informal Text](#), Rotterdam (2015-06-23).
- **Semantic Abstraction at Scale: Opportunities and Challenges for NLP with the FrameNet and AMR Representations.**
 - Invited talk at the [Swedish FrameNet++ Workshop](#), University of Gothenburg Språkbanken Group (2014-11-19).
 - Google Mountain View (2015-02-06).
 - Bielefeld University (2015-04-28).
 - Invited talk at the [Workshop on Broad-Coverage Semantic Analysis](#), University of Amsterdam (2016-06-02).
- **Bridging the Gap: Integrated Development of Linguistic Resources and Analyzers for NLP.**
 - Johns Hopkins University CLSP (2014-04-02).
 - University of Toronto Computational Linguistics Meeting (2014-08-08).
 - University of Edinburgh ILCC Seminar (2014-10-24).
 - Bielefeld University (2015-04-27).
 - University of Copenhagen Centre for Language Technology (2015-04-30).
- Broad-coverage analysis of English MWEs: from annotation to sequence tagging. Poster at PARSEME 4th General Meeting (March 2015), Valletta, Malta.
- [Lexical semantics with WordNet + Python](#). Python Linguistics Group, University of Pittsburgh (2013-10-21).
- [Discriminative Lexical Semantic Segmentation with Gaps: Running the MWE Gamut](#).
 - Natural Language Processing course, CMU (2014-04-24).
 - Berkeley NLP Group (2013-09-04).
 - LTI Student Research Symposium (2013-08-21). **Best Presentation Award**
- [Exploiting and expanding corpus resources for frame-semantic parsing](#). Presented at International FrameNet Workshop 2013.
- [English Understanding: From Annotation to AMRs](#). ISI NLP Group (2012-08-28).
- [Casting a wider 'Net: NLP for the Social Web](#). CMU Qatar Computer Science, Doha (2011-10-05).
- Introduction to Computational Linguistics and Language Technologies.
 - Introduction to Linguistics course, University of Pittsburgh (2010-04-15).
 - Introduction to Arabic Linguistics course, University of Pittsburgh (2012-04-11).
- [English morphology in construction grammar](#). Poster at CSDL 2010, San Diego.
- Probabilistic frame-semantic parsing. ICSI, Berkeley (2010-02-05).

Service

Area chair: COLING 2018 (with Vivek Kulkarni)

Program co-chair: LAW-MWE-CxG 2018

Program co-chair: Linguistic Annotation Workshop 2017 (with Nianwen Xue)

Co-chair: EMNLP 2017 Tutorials (with Alexandra Birch)

Faculty advisor: MASC-SLL (Mid-Atlantic Student Conference on Speech, Language and Learning) 2017 (with Mona Diab and Amir Zeldes)

Editorial board member: [Phraseology and Multiword Expressions series](#), Language Science Press, 2017–

Co-organizer: SemEval 2016 shared task on [Detecting Minimal Semantic Units and their Meanings](#) (with Dirk Hovy, Anders Johannsen, and Marine Carpuat)

Co-organizer: [Theme session on Computational Aspects of Frames and Constructions](#) for the International Conference on Construction Grammar 2016 (with Miriam R. L. Petruck)

Advisory board member: Multilingual FrameNet project (NSF CISE Research Infrastructure, PI Collin Baker), 2016–

Mentor: NAACL Student Research Workshop 2015

Reviewer for the journals *Transactions of the ACL* (elite reviewer), *Computational Linguistics*, and *Language Resources and Evaluation*; and conferences/workshops including ACL, NAACL, EACL, EMNLP, COLING, CoNLL, ICML, and AACL.

Area chair: Language Resources and Evaluation, ACL 2016 (with Nianwen Xue)

Invited panelist at the Linguistic Annotation Workshop, June 6, 2015 in Denver (topic: syntactic annotation of non-canonical language).

Invited facilitator at the FrameNet Workshop, September 9–13, 2013 in Berkeley.

At Georgetown:

- Organizer: [GUCL](#) group (since Fall 2016)
 - Community of computational linguistics researchers in the CS and Linguistics Departments, brought together through activities such as periodic meetings, talks, tutorials, reading groups, and social events, publicized via website and mailing list
- Computational concentration director, Linguistics Department (since Spring 2018)
 - Lead for computational course scheduling/curriculum decisions, including recruiting/hiring adjunct faculty
 - Member of Fellowship Committee which decides Ph.D. student TA/RA assignments and oversees graduate policy for the department
- Inviting guest speakers for CS Colloquium, Linguistics Speaker Series, and GUCL talks
 - Member, CS Colloquium Committee
 - Invited/hosted 10 speakers in 2016–17, 14 in 2017–18
- Regular participant: Semantics reading group, Deep learning reading group, Usage-based grammar reading group
- Curricular advisor for several undergraduate students majoring in Linguistics

At Edinburgh:

- Organizer: Semantic Parsing Lunch (Spring/Summer 2016)
- Organizer: ILCC Research Tutorial and Hackathon (2015-05-08)
- Organizer: Arguments and Adjuncts Reading Group (Fall 2014)
- Organizational advisor: UK Music and Informatics Workshop (2016-07-20)

At CMU:

- Organizer: Linguistics Reading Group

- Co-organizer: CL+NLP Lunch Seminar, [LTI Colloquium](#) Committee, Student Activities Committee
- Volunteer: North American Computational Linguistics Olympiad and International Linguistics Olympiad

[Abstract Meaning Representation \(AMR\)](#) design team, Summer 2012–present

[Universal Dependencies \(UD\)](#) contributor

Publications

Refereed Journal Articles

- Nathan Schneider, Emily Danchik, Chris Dyer, and Noah A. Smith (2014). [Discriminative lexical semantic segmentation with gaps: running the MWE gamut](#). *Transactions of the Association for Computational Linguistics*. Presentation at ACL 2014.
- Dipanjan Das, Desai Chen, André F. T. Martins, Nathan Schneider, and Noah A. Smith (2014). [Frame-semantic parsing](#). *Computational Linguistics* 40(1).

Reviews & Position Papers

- Nathan Schneider (2015). [What I've learned about annotating informal text \(and why you shouldn't take my word for it\)](#). *Proceedings of the Linguistic Annotation Workshop*.
- Nathan Schneider and Reut Tsarfaty (2013). [Design Patterns in Fluid Construction Grammar](#), Luc Steels (editor). *Computational Linguistics* 39(2).

Refereed Conference Papers

- Nathan Schneider, Jena D. Hwang, Vivek Srikumar, Jakob Prange, Austin Blodgett, Sarah R. Moeller, Aviram Stern, Adi Bitan, and Omri Abend (2018). [Comprehensive supersense disambiguation of English prepositions and possessives](#). *Proceedings of ACL*.
- Hannah Rohde, Alexander Johnson, Nathan Schneider, and Bonnie Webber (2018). [Discourse coherence: concurrent explicit and implicit relations](#). *Proceedings of ACL*.
- Ida Szubert, Adam Lopez, and Nathan Schneider (2018). [A structured syntax-semantics interface for English-AMR alignment](#). *Proceedings of NAACL-HLT*.
- Yijia Liu, Yi Zhu, Wanxiang Che, Bing Qin, Nathan Schneider, and Noah A. Smith (2018). [Parsing tweets into Universal Dependencies](#). *Proceedings of NAACL-HLT*.
- Austin Blodgett and Nathan Schneider (2018). [Semantic supersenses for English possessives](#). *Proceedings of LREC*.
- Claire Bonial, Bianca Badarau, Kira Griffitt, Ulf Hermjakob, Kevin Knight, Tim O’Gorman, Martha Palmer, and Nathan Schneider (2018). [Abstract Meaning Representation of constructions: the more we include, the better the representation](#). *Proceedings of LREC*.
- Hannah Rohde, Anna Dickinson, Nathan Schneider, Annie Louis, and Bonnie Webber (2017). [Exploring substitutability through discourse adverbials and multiple judgments](#). *Proceedings of the International Conference on Computational Semantics (IWCS)*.
- Jena D. Hwang, Archana Bhatia, Na-Rae Han, Tim O’Gorman, Vivek Srikumar, and Nathan Schneider (2017). [Double trouble: the problem of construal in semantic annotation of adpositions](#). *Proceedings of *SEM*.
- Nora Hollenstein, Nathan Schneider, and Bonnie Webber (2016). [Inconsistency detection in semantic annotation](#). *Proceedings of LREC*.
- Nathan Schneider and Noah A. Smith (2015). [A corpus and model integrating multiword expressions](#)

[and supersenses](#). *Proceedings of NAACL-HLT*.

- Meghana Kshirsagar, Sam Thomson, Nathan Schneider, Jaime Carbonell, Noah A. Smith, and Chris Dyer (2015). [Frame-semantic role labeling with heterogeneous annotations](#). *Proceedings of ACL-IJCNLP*.
- Lizhen Qu, Gabriela Ferraro, Liyuan Zhou, Weiwei Hou, Nathan Schneider, and Timothy Baldwin (2015). [Big data small data, in domain out-of domain, known word unknown word: the impact of word representations on sequence labelling tasks](#). *Proceedings of CoNLL*.
- Lingpeng Kong, Nathan Schneider, Swabha Swayamdipta, Archana Bhatia, Chris Dyer, and Noah A. Smith (2014). [Dependency parsing for tweets](#). *Proceedings of EMNLP*.
- Archana Bhatia, Chu-Cheng Lin, Nathan Schneider, Yulia Tsvetkov, Fatima Talib Al-Raisi, Laleh Roostapour, Jordan Bender, Abhimanu Kumar, Lori Levin, Mandy Simons, and Chris Dyer (2014). [Automatic classification of communicative functions of definiteness](#). *Proceedings of COLING*.
- Nathan Schneider, Spencer Onuffer, Nora Kazour, Emily Danchik, Michael T. Mordowanec, Henrietta Conrad, and Noah A. Smith (2014). [Comprehensive annotation of multiword expressions in a social web corpus](#). *Proceedings of LREC*.
- Yulia Tsvetkov, Nathan Schneider, Dirk Hovy, Archana Bhatia, Manaal Faruqui, and Chris Dyer (2014). [Augmenting English adjective senses with supersenses](#). *Proceedings of LREC*.
- Nathan Schneider, Behrang Mohit, Chris Dyer, Kemal Oflazer, and Noah A. Smith (2013). [Supersense tagging for Arabic: the MT-in-the-middle attack](#). *Proceedings of NAACL-HLT*.
- Olutobi Owoputi, Brendan O'Connor, Chris Dyer, Kevin Gimpel, Nathan Schneider, and Noah A. Smith (2013). [Improved part-of-speech tagging for online conversational text with word clusters](#). *Proceedings of NAACL-HLT*.
- Nathan Schneider, Behrang Mohit, Kemal Oflazer, and Noah A. Smith (2012). [Coarse lexical semantic annotation with supersenses: an Arabic case study](#). *Proceedings of ACL*.
- Behrang Mohit, Nathan Schneider, Rishav Bhowmick, Kemal Oflazer, and Noah A. Smith (2012). [Recall-oriented learning of named entities in Arabic Wikipedia](#). *Proceedings of EACL*.
- Kevin Gimpel, Nathan Schneider, Brendan O'Connor, Dipanjan Das, Daniel Mills, Jacob Eisenstein, Michael Heilman, Dani Yogatama, Jeffrey Flanigan, and Noah A. Smith (2011). [Part-of-speech tagging for Twitter: annotation, features, and experiments](#). *Proceedings of ACL-HLT*.
- Dipanjan Das, Nathan Schneider, Desai Chen, and Noah A. Smith (2010). [Probabilistic frame-semantic parsing](#). *Proceedings of NAACL-HLT*.
- Nathan Schneider (2010). [Computational cognitive morphosemantics: modeling morphological compositionality in Hebrew verbs with Embodied Construction Grammar](#). *Proceedings of BLS*.

Refereed Workshop Papers

- Nathan Schneider, Jena D. Hwang, Vivek Srikumar, Meredith Green, Abhijit Suresh, Kathryn Conger, Tim O'Gorman, and Martha Palmer (2016). [A corpus of preposition supersenses](#). *Proceedings of Linguistic Annotation Workshop*.
- Hannah Rohde, Anna Dickinson, Nathan Schneider, Christopher N. L. Clark, Annie Louis, and Bonnie Webber (2016). [Filling in the blanks in understanding discourse adverbials: consistency, conflict, and context-dependence in a crowdsourced elicitation task](#). *Proceedings of Linguistic Annotation Workshop*.
- Nathan Schneider, Dirk Hovy, Anders Johannsen, and Marine Carpuat (2016). [SemEval-2016 Task 10: Detecting Minimal Semantic Units and their Meanings \(DiMSUM\)](#). *Proceedings of SemEval*.
- Nathan Schneider, Vivek Srikumar, Jena D. Hwang, and Martha Palmer (2015). [A hierarchy with, of, and for preposition supersenses](#). *Proceedings of Linguistic Annotation Workshop*.
- Sam Thomson, Brendan O'Connor, Jeffrey Flanigan, David Bamman, Jesse Dodge, Swabha Swayamdipta, Nathan Schneider, Chris Dyer, and Noah A. Smith (2014). [CMU: Arc-Factored](#),

[Discriminative Semantic Dependency Parsing](#). *Proceedings of SemEval* (Task 8: Broad-Coverage Semantic Dependency Parsing).

- Nathan Schneider, Brendan O'Connor, Naomi Saphra, David Bamman, Manaal Faruqui, Noah A. Smith, Chris Dyer, and Jason Baldridge (2013). [A framework for \(under\)specifying dependency syntax without overloading annotators](#). *Proceedings of Linguistic Annotation Workshop*.
- Laura Banarescu, Claire Bonial, Shu Cai, Madalina Georgescu, Kira Griffitt, Ulf Hermjakob, Kevin Knight, Philipp Koehn, Martha Palmer, and Nathan Schneider (2013). [Abstract Meaning Representation for sembanking](#). *Proceedings of Linguistic Annotation Workshop*.
- Yulia Tsvetkov, Naama Twitto, Nathan Schneider, Noam Ordan, Manaal Faruqui, Victor Chahuneau, Shuly Wintner, and Chris Dyer (2013). [Identifying the L1 of non-native writers: the CMU-Haifa system](#). *Proceedings of the 8th Workshop on Innovative Use of NLP for Building Educational Applications*.
- Desai Chen, Nathan Schneider, Dipanjan Das, and Noah A. Smith (2010). [SEMAFOR: Frame argument resolution with log-linear models](#). *Proceedings of SemEval* (Task 10: Linking Events and their Participants in Discourse).

Refereed Demo Papers

- Nathan Schneider and Chuck Wooters (2017). [The NLTK FrameNet API: Designing for discoverability with a rich linguistic resource](#). *Proceedings of EMNLP Demonstrations*.
- Michael T. Mordowanec, Nathan Schneider, Chris Dyer, and Noah A. Smith (2014). [Simplified dependency annotations with GFL-Web](#). *Proceedings of ACL Demonstrations*.

Reports

- Nathan Schneider, Jena D. Hwang, Archana Bhatia, Na-Rae Han, Vivek Srikumar, Tim O'Gorman, Sarah R. Moeller, Omri Abend, Austin Blodgett, and Jakob Prange (January 2018). [Adposition and Case Supersenses v2: Guidelines for English](#). arXiv:1704.02134. 78 pages.
- Nathan Schneider, Rebecca Hwa, Philip Gianfortoni, Dipanjan Das, Michael Heilman, Alan W. Black, Frederick L. Crabbe, and Noah A. Smith (July 2010). [Visualizing topical quotations over time to understand news discourse](#). Technical Report CMU-LTI-10-013.
- Dipanjan Das, Nathan Schneider, Desai Chen, and Noah A. Smith (April 2010). [SEMAFOR 1.0: A probabilistic frame-semantic parser](#). Technical Report CMU-LTI-10-001.
- Reza Bosagh Zadeh and Nathan Schneider (December 2008). [Unsupervised approaches to sequence tagging, morphology induction, and lexical resource acquisition](#). LS2 course literature review.

Technical and personal skills

- Programming languages used on a regular basis: Python (text processing and statistical modeling) and HTML/CSS/Javascript/PHP/MySQL (web development and user interfaces for annotation); also fluent in Java
- Open source software projects: in addition to sharing code from published research, contributions to [NLTK](#) (including the [SemCor](#) and [FrameNet](#) modules) and [Zotero](#)
- Languages: English (native); studied conversational Hebrew, Arabic, French, and German
- Music: classical violin