

## Sebastian Schuster

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CONTACT INFORMATION	Department of Linguistics Stanford University 450 Serra Mall Stanford, CA 94305	<i>E-mail:</i> sebschu@stanford.edu <i>Tel:</i> +1 650 862 3589 <i>Website:</i> <a href="http://www.sebschu.com">http://www.sebschu.com</a>
EDUCATION & TRAINING	<b>Stanford University</b> , Stanford, CA, USA <i>PhD</i> , Linguistics Dissertation: Semantic-pragmatic adaptation Committee: Judith Degen (chair), Christopher Potts, Daniel Lassiter	expected June 2020
	<b>Summer School on Statistical Methods for Linguistics and Psychology</b> , Potsdam, Germany	September 2018
	<b>2015 LSA Linguistic Institute</b> , Chicago, Illinois, USA	July 2015
	<b>Stanford University</b> , Stanford, CA, USA <i>Master of Science</i> , Computer Science Advisor: Christopher Manning	December 2014
	<b>University of Vienna</b> , Vienna, Austria <i>Bachelor of Science</i> , Computer Science Thesis: The influence of training data selection on the quality of a model Advisor: Ingo Ebersberger	February 2012
NON-ACADEMIC RESEARCH	<b>Research Intern</b> , Conversational AI Team, Facebook Inc., Menlo Park, CA, USA	June 2018 - December 2018
AWARDS AND FELLOWSHIPS	<b>GRO Research Grant</b> School of Humanities and Sciences, Stanford University	December 2019
	<b>Community Impact Award</b> , Stanford Alumni Association	May 2019
	<b>Pigott Fellowship</b> , School of Humanities and Sciences Stanford University	March 2018
	<b>Travel award</b> , 14th International Congress for the Study of Child Language	July 2017
	<b>Goodan Family Graduate Fellowship</b> School of Humanities and Sciences, Stanford University	2015 - 2020
	<b>Best rated poster presentation award</b> , 2014 IEEE Spoken Language Technology Workshop	December 2014
	<b>Merit scholarship</b> , University of Vienna	2011 - 2012
WORK IN PROGRESS	<b>Sebastian Schuster</b> , Matthew Loder, and Judith Degen. (under review). <i>Explaining away in semantic/pragmatic adaptation</i> .  Sophie Regan, <b>Sebastian Schuster</b> , Judith Degen, and Michael C. Frank (in	

prep.). *Semantic adaptation in preschool aged children.*

Masoud Jasbi, **Sebastian Schuster**, and Philip Weiss. (in prep.). *Open Linguistics: A platform for sharing informal judgment data and analysis.*

PEER-REVIEWED  
PUBLICATIONS

**Sebastian Schuster** and Judith Degen. (in press). *I know what you're probably going to say: Listener adaptation to variable use of uncertainty expressions.* *Cognition.*

**Sebastian Schuster**,\* Yuxing Chen,\* and Judith Degen. 2020. *Harnessing the linguistic signal to predict scalar inferences.* In *In Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL 2020).*

Joakim Nivre, Marie-Catherine de Marneffe, Filip Ginter, Jan Hajič, Christopher D. Manning, Sampo Pyysalo, **Sebastian Schuster**, Francis Tyers, and Daniel Zeman. 2020. *Universal Dependencies v2: An evergrowing multilingual treebank collection.* In *Proceedings of the Twelfth International Conference on Language Resources and Evaluation (LREC 2020).*

**Sebastian Schuster** and Judith Degen. 2019. *Speaker-specific adaptation to variable use of uncertainty expressions.* In *Proceedings of the 41st Annual Meeting of the Cognitive Science Society (CogSci 2019).*

**Sebastian Schuster**, Sonal Gupta, Rushin Shah, and Mike Lewis. 2019. *Cross-lingual Transfer Learning for Multilingual Task Oriented Dialog.* In *Proceedings of the 17th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL 2019).*

Joakim Nivre, Paola Marongiu, Filip Ginter, Jenna Kanerva, Simonetta Montemagni, **Sebastian Schuster**, and Maria Simi. 2018. *Enhancing Universal Dependency Treebanks: A Case Study.* In *Proceedings of the Second Workshop on Universal Dependencies (UDW 2018).*

**Sebastian Schuster**, Joakim Nivre, and Christopher D. Manning. 2018. *Sentences with Gapping: Parsing and Reconstructing Elided Predicates.* In *Proceedings of the 16th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL 2018).*

Daniel Zeman et al. 2017. *CoNLL 2017 Shared Task: Multilingual Parsing from Raw Text to Universal Dependencies.* In *Proceedings of the CoNLL 2017 Shared Task: Multilingual Parsing from Raw Text to Universal Dependencies (CONLL 2017).*

**Sebastian Schuster**, Éric Villemonte de la Clergerie, Marie Candito, Benoît Sagot, Christopher D. Manning, and Djamé Seddah. 2017. *Paris and Stanford at EPE 2017: Downstream Evaluation of Graph-based Dependency Representations.*

In *Proceedings of the 2017 Shared Task on Extrinsic Parser Evaluation (EPE 2017)*.

**Sebastian Schuster**, Matthew Lamm, and Christopher D. Manning. 2017. *Gapping Constructions in Universal Dependencies v2*. In *Proceedings of the First Universal Dependencies Workshop (UDW 2017)*.

**Sebastian Schuster** and Christopher D. Manning. 2016. *Enhanced English Universal Dependencies: An Improved Representation for Natural Language Understanding Tasks*. In *Proceedings of the Tenth International Conference on Language Resources and Evaluation (LREC 2016)*.

**Sebastian Schuster**, Ranjay Krishna, Angel Chang, Li Fei-Fei, and Christopher D. Manning. 2015. *Generating Semantically Precise Scene Graphs from Textual Descriptions for Improved Image Retrieval*. In *Proceedings of the Fourth Workshop on Vision and Language (VL15)*.

**Sebastian Schuster**,\* Stephanie Pancoast,\* Milind Ganjoo, Michael C. Frank, and Dan Jurafsky. 2014. *Speaker-Independent Detection of Child Directed Speech*. In *Proceedings of the 2014 IEEE Spoken Language Technology Workshop (SLT 2014)*. **Best Rated Poster Presentation Award**.

Spence Green, Sida I. Wang, Jason Chuang, Jeffrey Heer, **Sebastian Schuster**, and Christopher D. Manning. 2014. *Human Effort and Machine Learnability in Computer Aided Translation*. In *Proceedings of the 2014 Conference on Empirical Methods in Natural Language Processing (EMNLP 2014)*.

Julia Neidert,\* **Sebastian Schuster**,\* Spence Green, Kenneth Heafield, and Christopher D. Manning. 2014. *Stanford University's Submissions to the WMT 2014 Shared Task*. In *Proceedings of the Ninth Workshop On Statistical Machine Translation (WMT 2014)*.

PRESENTATIONS Sebastian Schuster. Colloquium: *Modeling utterance interpretation in context*. Linguistics Department, CU Boulder, Boulder, CO, February 17, 2020.

Sebastian Schuster. Invited Talk: *Computational Models of Pragmatics*. Computation and Psycholinguistics Lab, John Hopkins University, Baltimore, MD, November 20, 2019.

Sebastian Schuster, Matthew Loder, and Judith Degen. Poster: *Explaining Away in Semantic Adaptation*. California Meeting on Psycholinguistics 2019 (CAMP 2019). Santa Cruz, CA, October 26-27, 2019.

Sebastian Schuster. Invited Talk: *Cross-lingual Transfer Learning for Multilingual Task-Oriented Dialog*. Samsung Research, Mountain View, CA, October 3, 2019.

Sebastian Schuster and Judith Degen. Poster: *Speaker-specific adaptation to variable use of uncertainty expressions*. 41st Annual Meeting of the Cognitive Science Society (CogSci 2019), Montréal, Canada, July 24-27, 2019.

Sebastian Schuster and Judith Degen. *Speaker-specific adaptation to variable use of uncertainty expressions*. 8th Experimental Pragmatics conference (XPrag 2019), Edinburgh, UK, June 19-21, 2019.

Sebastian Schuster and Judith Degen. Poster: *A computational model of listener adaptation to variable use of uncertainty expressions*. Cognitive Modeling and Computational Linguistics (CMCL 2019), Minneapolis, MN, June 7, 2019.

Sebastian Schuster, Sonal Gupta, Rushin Shah, and Mike Lewis. Poster: *Cross-lingual Transfer Learning for Multilingual Task Oriented Dialog*. 17th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL 2019), Minneapolis, MN, June 3-5, 2019.

Masoud Jasbi, Sebastian Schuster, and Philip Weiss. *Open Linguistics: A platform for informal acceptability data*. Second North American Conference in Iranian Linguistics (NACIL2), Tucson, AZ, April 19-21, 2019.

Sebastian Schuster and Judith Degen. Poster: *A computational model of listener adaptation to variable use of uncertainty expressions*. Stanford HAI Symposium, Stanford, CA, March 18, 2019.

Sebastian Schuster and Judith Degen. *Adaptation to Variable Use of Expressions of Uncertainty*. 20th Annual SemFest, Stanford, CA, March 15-16, 2019.

Sebastian Schuster, Sonal Gupta, Rushin Shah, and Mike Lewis. *Cross-lingual Transfer Learning for Multilingual Task Oriented Dialog*. Second Conversational AI Workshop at NeurIPS 2018. Montréal, Canada, December 7, 2018.

Sebastian Schuster and Judith Degen. *Adaptation to Variable Use of Expressions of Uncertainty*. California Meeting on Psycholinguistics 2018 (CAMP 2018). Los Angeles, CA, December 1-2, 2018.

Sebastian Schuster and Judith Degen. *Listener adaptation to variable use of uncertainty expressions*. Computational Models of Language Generation and Processing in Pragmatics (CoMPPrag 2018). Bochum, Germany, September 26-28, 2018.

Sebastian Schuster and Judith Degen. *Adaptation to Variable Use of Expressions of Uncertainty*. Architectures and Mechanisms for Language Processing 2018 (AMLaP 2018). Berlin, Germany, September 6-8, 2018.

Sebastian Schuster, Joakim Nivre, and Christopher D. Manning. *Sentences with Gapping: Parsing and Reconstructing Elided Predicates*. 16th Annual Conference

of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL 2018). New Orleans, LA, June 1-8, 2018.

Sebastian Schuster, Éric Villemonte de la Clergerie, Marie Candito, Benoît Sagot, Christopher D. Manning, and Djamé Seddah. *Paris and Stanford at EPE 2017: Downstream Evaluation of Graph-based Dependency Representations*. Fourth International Conference on Dependency Linguistics (Depling 2017) and 15th International Conference on Parsing Technologies (IWPT 2017). Pisa, Italy, September 18-22, 2017.

Sebastian Schuster. Poster: *Early Marking of Standards of Comparison in German and English*. 14th International Congress for the Study of Child Language. Lyon, France, July 17-21, 2017.

Sebastian Schuster, Matthew Lamm, Christopher D. Manning. *Gapping Constructions in Universal Dependencies v2*. First Universal Dependencies Workshop (UDW 2017). Gothenburg, Sweden, May 22, 2017.

Sebastian Schuster. Invited Talk: *Universal Dependencies for Natural Language Processing*. Nuance, Inc, Sunnyvale, CA, November 30, 2016.

Sebastian Schuster and Christopher D. Manning. Poster: *Enhanced English Universal Dependencies: An Improved Representation for Natural Language Understanding Tasks*. Tenth International Conference on Language Resources and Evaluation (LREC 2016). Portorož, Slovenia, May 25-27, 2016.

Sebastian Schuster, Ranjay Krishna, Angel Chang, Li Fei-Fei, and Christopher D. Manning. *Generating Semantically Precise Scene Graphs from Textual Descriptions for Improved Image Retrieval*. Fourth Workshop on Vision and Language (VL15) at EMNLP. Lisbon, Portugal, September 18, 2015.

Sebastian Schuster. Invited Talk: *Child-Directed Speech Detection and Large-Scale Machine Translation*. Apple Inc., Cupertino, CA, October 24, 2014.

Julia Neidert, Sebastian Schuster, Spence Green, Kenneth Heafield, and Christopher D. Manning. Poster: *Stanford University's Submissions to the WMT 2014 Shared Task*. Ninth Workshop On Statistical Machine Translation (WMT 2014). Baltimore, MD, June 26-27, 2014.

TEACHING  
EXPERIENCE

**As Instructor:**

**Bayesian Models of Pragmatic Inference Workshop**  
(with Reuben Cohn-Gordon)

February 2018  
Stanford University

**SAILORS: Stanford Artificial Intelligence Lab's  
Summer Outreach Program** (with Abigail See)

June - July 2017  
Stanford University

**Web-based Experimental Methods Workshop**

May 2017  
Stanford University

**As Teaching Assistant:**

LING145/245A/PSYCH140: **Introduction to Psycholinguistics** Fall 2018  
(Instructor: Judith Degen) Stanford University

LING130A/230A: **Introduction to Semantics & Pragmatics** Winter 2018  
(Instructor: Christopher Potts) Stanford University

LING145/PSYCH140: **Introduction to Psycholinguistics** Fall 2017  
(Instructor: Judith Degen) Stanford University

CS22N: **Natural Language Processing** Fall 2013  
(Instructor: Christopher Manning) Stanford University

**Applied Bioinformatics**

(Instructors: Ingo Ebersberger and Arndt von Haeseler) University of Vienna Fall 2011

**As Guest Lecturer:**

LING47N: **Languages, Dialects, Speakers** November 2019  
Lecture: Semantic/Pragmatic Adaptation Stanford University

332: **Experimental Pragmatics** July 2019  
Lecture: Semantic/Pragmatic Adaptation LSA Linguistic Institute 2019

LING245B: **Methods in Psycholinguistics** May 2019  
Lecture: Open Science & Preregistration Stanford University

LING245: **Methods in Psycholinguistics** May 2018  
Lecture: Open Science & Preregistration Stanford University

LING1: **Introduction to Linguistics** October 2017  
Lecture: Syntax-Mediated Multilingual Question-Answering Stanford University

**As Grader:**

LING1: **Introduction to Linguistics** Fall 2016  
(Instructor: Meghan Sumner) Stanford University

**MENTORING &  
ADVISING**

Yuxing Chen (Stanford SymSys master student): Harnessing the richness of the linguistic signal in predicting pragmatic inferences (March 2019 - December 2019)

Matthew Loder (CSLI summer intern): Explaining away in semantic adaptation (June - August 2019)

Anna-Marie Sprenger (Stanford linguistics undergraduate): Development of an

English enhanced UD treebank (February - June 2018)

PROFESSIONAL  
SERVICE

**Conference Reviewer**, LREC 2016, ACL 2016, ACL 2017, EMNLP 2017, Universal Dependencies Workshop 2017, CoNLL Shared Task 2017, IJCNLP 2017, EPE 2017, LREC 2018, ACL 2018, COLING 2018, ACL Student Research Workshop 2018, Universal Dependencies Workshop 2018, EMNLP 2018, CAMP 2018, ACL Student Research Workshop 2019, ACL 2019, EMNLP 2019, SyntaxFest 2019, CAMP 2019, AAAI 2020, LREC 2020, ACL 2020, COLING 2020, CogSci 2020

**Journal Reviewer**, Corpus Linguistics and Linguistic Theory (2019), Discourse Processes (2019)

**Co-chair**, Universal Dependencies Workshop at COLING 2020

**Co-chair**, Universal Dependencies Workshop at EMNLP 2018

**Organizer**, Universal Dependencies Workshop at NoDaLiDa 2017

INSTITUTIONAL  
SERVICE

**QP Fest Committee**, Stanford Linguistics Department, 2019-2020

**CSLI Summer Internship Admissions Committee**, Stanford CSLI, 2019

**PhD Admissions Committee**, Stanford Linguistics Department, 2018 - 2019

**Graduate Studies Committee**, Stanford Linguistics Department, 2016 - 2018

**Graduate Student Representative**, Stanford Linguistics Department, 2016 - 2017

**Corpus TA**, Stanford Linguistics Department, 2016 - 2017

**Social Committee**, Stanford Linguistics Department, 2015 - 2016

PROFESSIONAL  
MEMBERSHIP

<b>Association for Computational Linguistics</b>	2014 - present
<b>Linguistic Society of America</b>	2018 - present
<b>Cognitive Science Society</b>	2019 - present

SELECTED SKILLS

Programming: Python, Java, JavaScript, C++, R, HTML, CSS, SQL, PHP

Machine Learning: Numpy, Scikit-learn, Tensorflow, PyTorch, NLTK, Stanford CoreNLP, WebPPL, Stan

LANGUAGES

**German** (native), **English** (fluent), **French** (intermediate), **Spanish** (intermediate)

Last updated: April 2020