

Samuel J. Wiseman

swiseman@ttic.edu

Current Appointment	Research Assistant Professor Toyota Technological Institute at Chicago	Sept. 2018 – present
Education	Harvard University , Ph.D., Computer Science Dissertation: <i>Structured Neural Models for Coreference and Generation</i> Advisors: Stuart M. Shieber, Alexander M. Rush	Sept. 2012 – May 2018
	Princeton University , A.B., Philosophy, Magna Cum Laude Certificate: Program in Applications of Computing	June 2010
Honors and Awards	Phi Beta Kappa , Princeton University Harvard Bok Center Certificate of Distinction in Teaching Honorable Mention for Best Paper , EMNLP Siebel Scholar Outstanding Reviewer , NAACL	June 2010 Spring 2014, Spring 2016 2016 2018 2018
Conference Publications	Learning Neural Templates for Text Generation. Sam Wiseman, Stuart M. Shieber, and Alexander M. Rush. In <i>EMNLP</i> , 2018.	
	Entity Tracking Improves Cloze-style Reading Comprehension. Luong Hoang, Sam Wiseman, and Alexander M. Rush. In <i>EMNLP</i> , 2018.	
	Semi-Amortized Variational Autoencoders. Yoon Kim, Sam Wiseman, Andrew C. Miller, David Sontag, Alexander M. Rush. In <i>ICML</i> , 2018.	
	Challenges in Data-to-Document Generation. Sam Wiseman, Stuart M. Shieber, and Alexander M. Rush. In <i>EMNLP</i> , 2017. Poster Presentation.	
	Sequence-to-Sequence Learning as Beam Search Optimization. Sam Wiseman and Alexander M. Rush. In <i>EMNLP</i> , 2016. Oral Presentation. Honorable Mention for Best Paper. <ul style="list-style-type: none">• Invited for oral presentation at NIPS 2016 Deep Learning Symposium	
	Learning Global Features for Coreference Resolution. Sam Wiseman, Alexander M. Rush, and Stuart M. Shieber. In <i>NAACL</i> , 2016. Oral Presentation.	
	Learning Anaphoricity and Antecedent Ranking Features for Coreference Resolution. Sam Wiseman, Alexander M. Rush, Stuart M. Shieber, and Jason Weston. In <i>ACL</i> , 2015. Oral Presentation.	
	Discriminatively Reranking Abductive Proofs for Plan Recognition. Sam Wiseman and Stuart Shieber. In <i>ICAPS</i> , 2014. Oral Presentation.	
Workshop and Preprint Papers	Training Language Models Using Target-Propagation. Sam Wiseman, Sumit Chopra, Marc’Aurelio Ranzato, Arthur Szlam, Ruoyu Sun, Soumith Chintala, Nicolas Vasilache. arXiv:1702.04770, February 2017.	
	Antecedent Prediction without a Pipeline. Sam Wiseman, Alexander M. Rush, and Stuart M. Shieber. CORBON Workshop, June 2016. Poster Presentation.	
	Extracting Multi-word, Entity-specific Topics and their Interrelations from Online Medical Forums. Sam Wiseman, Andrew Miller, Finale Doshi-Velez, and Stuart M. Shieber. MUCMD Workshop, August 2015. Oral Presentation.	

Academic Internships	Facebook AI Research , New York, NY	
	Research Intern	Summer 2016, Summer 2017
	<ul style="list-style-type: none"> • Research on retrieval-based text generation, with Marc'Aurelio Ranzato, Arthur Szlam, and Mike Lewis (Summer 2017) • Research on training RNNs with target-propagation, with Sumit Chopra, Marc'Aurelio Ranzato, and Arthur Szlam (Summer 2016) 	
Teaching Experience	Teaching Fellow	
	• Harvard CS 287: Statistical Natural Language Processing	Spring 2016
	• Harvard CS 187: Computational Linguistics	Fall 2014
	• Harvard CS 181: Machine Learning	Spring 2014
Service	<ul style="list-style-type: none"> • Reviewing: ACL, NAACL, EMNLP, ICML, ICLR, NIPS, COLING, Computational Linguistics • Program Committee: Coreference Beyond Ontonotes (CORBON) 2017, Computational Models of Reference, Anaphora, and Coreference (CRAC) 2018 • Chair of Discourse Poster Session, EMNLP 2017 	
Invited Talks	Collaborative & Knowledge-backed Language Generation Workshop, TTIC	July 2018
	Invited Talk, Boston University	February 2018
	Invited Talk, Wesleyan University	February 2018
	Invited Talk, TTIC	January 2018
	NIPS Deep Learning Symposium	December 2016
	Kensho (company) Research Meeting	February 2016
	Boston Children's Hospital NLP Lab Reading Group	September 2015
	Meaningful Use of Complex Medical Data (MUCMD) Conference	August 2015
	Harvard AI Research Group Meeting	December 2013
Work Experience	Wireless Generation , Brooklyn, NY	
	Software Developer, Reporting and Analytics Team	Feb. 2012 – July 2012
	Columbia University , New York, NY	
	Research Programmer, Spoken Language Processing Group	Sept. 2011 – Jan. 2012
	Morgan Stanley , New York, NY	
	Software Developer, Prime Brokerage Margin Calculation Team	July 2010 – June 2011
Open Source Projects	nn_coref (https://github.com/swiseman/nn_coref)	
	<ul style="list-style-type: none"> • A neural coreference system. 	
	BSO (https://github.com/harvardnlp/BSO)	
	<ul style="list-style-type: none"> • Beam Search Optimization with seq2seq models. 	
	TPRNN (https://github.com/facebookresearch/TPRNN)	
	<ul style="list-style-type: none"> • Training language models with target propagation 	
	data2text (https://github.com/harvardnlp/data2text)	
	<ul style="list-style-type: none"> • A system for generating and evaluating summaries of structured data. 	
	neural-template-gen (https://github.com/harvardnlp/neural-template-gen)	
	<ul style="list-style-type: none"> • A system for extracting template-like structures from text and generating with them. 	