

Samuel J. Wiseman

swiseman@cs.duke.edu

Current Appointment	Assistant Professor Duke University, Department of Computer Science	July 2021 – present
Previous Appointments	Research Assistant Professor Toyota Technological Institute at Chicago	Sept. 2018 – July 2021
Education	Harvard University , Ph.D., Computer Science Dissertation: <i>Structured Neural Models for Coreference and Generation</i> Advisors: Alexander M. Rush, Stuart M. Shieber	Sept. 2012 – May 2018
	Princeton University , A.B., Philosophy, Magna Cum Laude Certificate: Program in Applications of Computing	June 2010
Honors and Awards	Siebel Scholar Honorable Mention for Best Paper , EMNLP Harvard Bok Center Certificate of Distinction in Teaching Phi Beta Kappa , Princeton University	2018 2016 Spring 2014, Spring 2016 June 2010
Conference Publications	Data-to-text Generation by Splicing Together Nearest Neighbors. Sam Wiseman, Arturs Backurs, Karl Stratos. <i>EMNLP</i> , 2021.	
	WikiTableT: A Large-scale Data-to-text Dataset for Generating Wikipedia Article Sections. Mingda Chen, Sam Wiseman, Kevin Gimpel. <i>Findings of ACL</i> , 2021.	
	Learning to Ignore: Long Document Coreference with Bounded Memory Neural Networks. Shubham Toshniwal, Sam Wiseman, Allyson Ettinger, Karen Livescu, and Kevin Gimpel. <i>EMNLP</i> , 2020.	
	Learning Discrete Structured Representations by Adversarially Maximizing Mutual Information. Karl Stratos and Sam Wiseman. <i>ICML</i> , 2020.	
	ENGINE: Energy-Based Inference Networks for Non-Autoregressive Machine Translation. Lifu Tu, Richard Yuanzhe Pang, Sam Wiseman, and Kevin Gimpel. <i>ACL</i> , 2020.	
	Discrete Latent Variable Representations for Low-Resource Text Classification. Shuning Jin, Sam Wiseman, Karl Stratos, and Karen Livescu. <i>ACL</i> , 2020.	
	Amortized Bethe Free Energy Minimization for Learning MRFs. Sam Wiseman and Yoon Kim. <i>NeurIPS</i> , 2019.	
	Label-Agnostic Sequence Labeling by Copying Nearest Neighbors. Sam Wiseman and Karl Stratos. <i>ACL</i> , 2019.	
	Controllable Paraphrase Generation with a Syntactic Exemplar. Mingda Chen, Qingming Tang, Sam Wiseman, and Kevin Gimpel. <i>ACL</i> , 2019.	
	A Multi-Task Approach for Disentangling Syntax and Semantics in Sentence Representations. Mingda Chen, Qingming Tang, Sam Wiseman, and Kevin Gimpel. <i>NAACL</i> , 2019.	
	Learning Neural Templates for Text Generation. Sam Wiseman, Stuart M. Shieber, and Alexander M. Rush. <i>EMNLP</i> , 2018.	
	Entity Tracking Improves Cloze-style Reading Comprehension. Luong Hoang, Sam Wiseman, and Alexander M. Rush. <i>EMNLP</i> , 2018.	
	Semi-Amortized Variational Autoencoders. Yoon Kim, Sam Wiseman, Andrew C. Miller, David Sontag, Alexander M. Rush. <i>ICML</i> , 2018.	

Challenges in Data-to-Document Generation. Sam Wiseman, Stuart M. Shieber, and Alexander M. Rush. *EMNLP*, 2017.

Sequence-to-Sequence Learning as Beam Search Optimization. Sam Wiseman and Alexander M. Rush. *EMNLP*, 2016. Honorable Mention for Best Paper.

- Invited for oral presentation at NeurIPS 2016 Deep Learning Symposium

Learning Global Features for Coreference Resolution. Sam Wiseman, Alexander M. Rush, and Stuart M. Shieber. *NAACL*, 2016.

Learning Anaphoricity and Antecedent Ranking Features for Coreference Resolution. Sam Wiseman, Alexander M. Rush, Stuart M. Shieber, and Jason Weston. *ACL*, 2015.

Discriminatively Reranking Abductive Proofs for Plan Recognition. Sam Wiseman and Stuart Shieber. *ICAPS*, 2014.

Workshop and Preprint Papers

On Generalization in Coreference Resolution. Shubham Toshniwal, Patrick Xia, Sam Wiseman, Karen Livescu, Kevin Gimpel. CRAC Workshop at EMNLP, 2021.

SummScreen: A Dataset for Abstractive Screenplay Summarization. Mingda Chen, Zewei Chu, Sam Wiseman, Kevin Gimpel. arXiv:2104.07091, April 2021.

Learning Chess Blindfolded: Evaluating Language Models on State Tracking. Shubham Toshniwal, Sam Wiseman, Karen Livescu, Kevin Gimpel. arxiv:2102.13249, February 2021.

Learning Deep Latent-variable MRFs with Amortized Bethe Free Energy Minimization. Sam Wiseman. DeepGenStruct at ICLR, 2019.

A Tutorial on Deep Latent Variable Models of Natural Language. Yoon Kim*, Sam Wiseman*, Alexander M. Rush. arXiv:1812.06834. EMNLP 2018 Tutorial Document.

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 at NAACL, 2016.

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.

Service

- Area Chair: EMNLP 2021 (Machine Learning track), ACL 2020 (Generation track), EMNLP 2020 (Generation track)
 - EMNLP 2020 Outstanding AC Award
- Reviewing: TACL, ACL, NAACL, EMNLP, ICML, ICLR, NeurIPS, COLING
 - NeurIPS 2021 Outstanding Reviewer Award
 - NAACL 2018 Outstanding Reviewer Award
- EMNLP 2018 Tutorial: Deep Latent Variable Models of Natural Language
- Organizing Committee: Midwest Speech and Language Days, 2019
- Workshop Program Committees: CORBON at EACL 2017, CRAC at NAACL 2018, NeuralGen at NAACL 2019, DSNLNG at INLG 2019, WNGT at EMNLP 2019

Teaching Experience

Instructor

- Duke COMPSCI 590.03: Introduction to Natural Language Processing Fall 2021
 - Co-taught with Bhuwan Dhingra

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

**Academic
Internships**

Facebook AI Research, New York, NY

Research Intern

Summer 2016, Summer 2017

- 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)