Atticus Geiger

Stanford University

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Education

Ph.D. Linguistics *September 2019 -*
Stanford University, Stanford, CA

M.S. Computer Science *September 2016 - June 2019*
Stanford University, Stanford, CA

B.S. Symbolic Systems *September 2015- June 2019*
Stanford University, Stanford, CA

Career History

Honors Thesis Research, *Stanford University* *June 2018 - September 2018*

- Acquired grant for self led natural language inference research project advised by Chris Potts, Thomas Icard, and Lauri Karttunen
- Constructed artificial natural language inference dataset using logic models
- Designed task specific neural model with standout performance on the generated datasets

Symbolic Systems Research Intern, *Stanford University* *June 2017 - September 2017*

- Worked with Lauri Karttunen and Ignacio Cases to create a Natural Language Inference dataset focused on implicatives
- Implemented neural network models for natural language inference in Tensor Flow

Software Engineer Intern, *Alaska Satellite Facility* *June 2016 - September 2016*

- Created a AWS cloud processing infrastructure and website interface
- Provided a service that automatically processes incoming satellite data
- Accomplished significant, largely self led software implementation

Skills

Programming: Python, C++, C, TensorFlow, PyTorch, AWS

Publications

- Atticus Geiger, Ignacio Cases, Lauri Karttunen, and Christopher Potts. Posing fair generalization tasks for natural language inference. In *Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing*, page to appear, Stroudsburg, PA, November 2019. Association for Computational Linguistics
- Atticus Geiger. Can natural language inference models perform natural logic reasoning? B.s. thesis, Stanford University, 2019
- Ignacio Cases, Clemens Rosenbaum, Matthew Riemer, Atticus Geiger, Tim Klinger, Alex Tamkin, Olivia Li, Sandhini Agarwal, Joshua D. Greene, Dan Jurafsky, Christopher Potts, and Lauri Karttunen. Recursive routing networks: Learning to compose modules for language understanding. In *Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies*, Stroudsburg, PA, June 2019. Association for Computational Linguistics
- Atticus Geiger, Ignacio Cases, Lauri Karttunen, and Christopher Potts. Stress-testing neural models of natural language inference with multiply-quantified sentences. Ms., Stanford University. arXiv 1810.13033, 2018

Awards and Honors

Firestone Medal Award for B.S. honors thesis titled *Can Natural Language Inference Models Perform Natural Logic Reasoning?* and advised by Chris Potts and Thomas Icard.