

Siyi Liu

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Github: github.com/liusiyi641

Research Interests

My primary research interest lies in the intersection of machine learning and natural language understanding. I am generally interested in understanding the implications from news sources, including their *perspectives* and *frames*. I am also interested in multi-modality learning, low resource/zero-shot NLP, NLP for social good, and other applications of NLP.

Education

Boston University , Boston, MA B.A./M.S. Dual Degree in Computer Science Advisor: Derry Wijaya	2016-2020
University of Pennsylvania , Philadelphia, PA M.S.E. in Computer and Information Science Advisor: Dan Roth	2020-2022

Publications

- [1] **Siyi Liu**, Sihao Chen, Xander Uyttendaele, Dan Roth
“MultiOpEd: A Corpus of Multi-Perspective News Editorials”, in NAACL 2021.
[\[Paper\]](#)[\[Slides/Talk/Poster\]](#)
- [2] **Siyi Liu**, Lei Guo, Kate Mays, Margrit Betke and Derry Tanti Wijaya.
“Detecting Frames in News Headlines and Its Application to Analyzing News Framing Trends Surrounding U.S. Gun Violence.” In *Proceedings of Conference on Computational Natural Language Learning (CoNLL)* 2019.
[\[Paper\]](#) [\[Slides\]](#)
- [3] **Siyi Liu***, Ziang Leng*, Derry Tanti Wijaya.
“Learning To Mirror Speaking Styles Incrementally.” in arxiv.
[\[Paper\]](#)

Research Experience

University of Pennsylvania <i>Advisor: Prof. Dan Roth</i> <i>Project: Information Pollution Project</i> <ul style="list-style-type: none">• <i>Discovering and analyzing the argumentation structure in news editorials</i>• <i>Developing a demo website that presents news articles with different perspectives</i>• <i>Designing an argument similarity metric based on evidence</i>	Summer 2020 – Present
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Boston University

Spring 2019 – Fall 2020

*Advisor: Prof. Derry Wijaya**Projects:*

- *Detecting Frames in News Headlines and Analyzing News Framing Trends Surrounding U.S. Gun Violence*
- *Capturing and Transforming Speaking Styles in a Low Resource Setting*
- *Creating Multimedia Summaries Using Tweets and Videos*

City University of Hong Kong*Advisor: Prof. Junhui Wang*

Aug 2019 - Sep 2019

*Project: Analyzing Chinese Law Documents and Clustering Similar Case Descriptions***Awards**

Undergraduate Research Opportunity Program Award, Boston University	Fall 2019
Dean's List, College of Arts and Sciences, Boston University	Spring 2019
Dean's List, College of Arts and Sciences, Boston University	Spring 2018

Skills

Programming Languages: Python (proficient), Java, C, C#, Latex
Tools (proficient): Huggingface Transformers, Pytorch, nltk, sklearn

Services

Reviewers: AAAI 2021 (secondary)