

Chengfei Wu

Education	Purdue University	Jan 2022 - Jan 2027 (exp)
	Ph.D., Department of Computer Science Area: Natural Language Processing Advisor: Prof. Dan Goldwasser	
	Purdue University	Aug 2019 - Dec 2021 with Distinction
	B.S., Department of Computer Science	
Publications	Rajkumar Pujari, Chengfei Wu , Dan Goldwasser (2023). " We Demand Justice! ": Towards Grounding Political Text in Social Context . Pre-Print on arXiv . We solved the problem of disambiguating political statements on social media by introducing a novel dataset and neuro-symbolic framework. Achieved a 12% gain over strong baselines, including GPT-3, demonstrating its effectiveness in understanding the complex interplay between political language and real-world actions.	
Research Experience	Context Augmented Large Language Model	Jan 2022 - Present
	<i>Ph.D. Research, Purdue University</i>	Prof. Dan Goldwasser
	Working on the problem of limited proficiency in understanding conversational dynamics in open source large language models through the integration of multi-modal information in a structured way.	
	Computational Cultural Understanding	Mar 2022 - Present
	<i>Defense Advanced Research Projects Agency</i>	Dr. Wil Corvey
	Using open source large language models and multi-modal information to solve research topics including: 1) automatic discovery of sociocultural norms, 2) generalization of emotion recognition across cultures, 3) detecting impactful changes in communicative practice at multiple timescales, and 4) providing dialogue assistance to cross-cultural interaction.	
	Vision-Language Generation	Apr 2021
	<i>Undergrad Research, Purdue University</i>	
	Developed a vision-language generation model by training an LSTM to take input from pre-trained image and language encoder (GloVe). Then used this model to assess the impact of different pretrained vision models (VG-G16 & InceptionV3) on their quality of text generation.	
Academic and Institutional Service	Teaching Assistant	
	Data Mining and Machine Learning (CS 373) Systems Programming (CS 252)	
Reference	Prof. Dan Goldwasser, Purdue University Prof. Gustavo Rodriguez-Rivera, Purdue University	dgoldwas@purdue.edu grr@purdue.edu