

Jeremiah Lev Milbauer

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I conduct research on the **epistemic role of artificial intelligence**, investigating and building intelligent systems that enhance our ability to explore and connect ideas across scholarly and sociocultural contexts.

Research areas	Natural Language Processing (NLP), Computational Social Science (CSS), Human-Computer Interaction (HCI). Specifically , Human-AI interaction, Sensemaking, Science of Science, Information Retrieval, Accelerating Science, Scholarly NLP, Cultural Analytics	
Education	Carnegie Mellon University, School of Computer Science Ph.D. and M.S., Language Technologies Institute Advisor: Emma Strubell	2020 - present
	University of Chicago B.S. Computer Science (hons.) and B.A. Philosophy	2019
	Hunter College High School Selective public school in New York City.	2015
Peer-reviewed publications	HCI Sireesh Gururaja, Nupoor Gandhi, Jeremiah Milbauer , Emma Strubell. “ Beyond Text: Domain Expert Needs in Document Research .” <i>Association for Computational Linguistics</i> (Findings), 2025.	
	NLP HCI =Anjali Kantharuban, = Jeremiah Milbauer , Emma Strubell, Graham Neubig. “ Stereotype or Personalization? User Identity Biases Chatbot Recommendations .” <i>Association for Computational Linguistics</i> (Findings), 2025.	
	HCI NLP Tongshuang Wu, Haiyi Zhu, ..., Jeremiah Milbauer , “ LLMs as Workers in Human-Computational Algorithms? Replicating Crowdsourcing Pipelines with LLMs .” <i>ACM CHI Conference on Human Factors in Computing Systems</i> (Case Study), 2025.	
	NLP HCI Jeremiah Milbauer , Ziqi Ding, Zhijin Wu, Tongshuang Wu. “ NewsSense: Reference-free Verification via Cross-document Comparison .” <i>Empirical Methods in Natural Language Processing</i> (Demo), 2023.	
	NLP Jeremiah Milbauer , Annie Louis, M. Javad Hosseini, Alex Fabrikant, Don Metzler, Tal Schuster. “ LAIT: Efficient Multi-segment Encoding in Transformers with Layer-adjustable Interaction .” <i>Association for Computational Linguistics</i> , 2023.	
	NLP CSS Jeremiah Milbauer , Adarsh Mathew, James Evans. “ Aligning Multidimensional Worldviews and Discovering Ideological Differences .” <i>Empirical Methods in Natural Language Processing</i> , 2021	
Preprints	NLP Long Phan, ..., Jeremiah Milbauer , ..., Dan Hendrycks. “ Humanity’s Last Exam ” 2025. (<i>contributed questions on model induction, gestalt perception, and law</i>)	
Invited Talks	NLP HCI “User Identity Biases Chatbot Recommendations.” <i>3rd Workshop on Social Influence in Conversations</i> at ACL 2025.	

Posters & Presentations	NLP Sireesh Gururaja, Jeremiah Milbauer , Hung-Yi Lin, Anthony Rollett, Emma Strubell “Data Driven Design as a Challenge Task for Few- and Zero-Shot Information Extraction” <i>AI and Scientific Discovery: Directions and Opportunities @ NAACL</i> , 2025	
	NLP CSS Jeremiah Milbauer , Emma Strubell. “Inside the Echo Chamber: Leveraging Language Models to Measure Community Consensus” <i>TADA 2023: New Directions in Analyzing Text as Data</i> , 2023.	
	CSS Adarsh Mathew, Jeremiah Milbauer , James Evans. “Paths to Power: Networked Influence and Contribution on Reddit.” <i>INDE 2021: Beyond Misinformation</i> , 2021.	
	CSS Jeremiah Milbauer , Yutao Chen, Deblina Mukherjee, James Evans. “Representing Repositories in the Open-source Ecosystem.” <i>IC2S2: International Conference on Computational Social Science</i> , 2021.	
Other Writing	Jeremiah Milbauer . “ Green Homesteads. ” <i>Open Future Essay Contest (Shortlist)</i> , <i>The Economist</i> , 2019. Press: The Economist	
	Jeremiah Milbauer . “ Opting Out: Ignorance, not Consent. ” Chapter in <i>Student Privacy: The Next Frontier</i> . Berkman Center Research Publications, 2015.	
Awards & Fellowships	Finalist, <i>3 Minute Thesis</i>	2024
	Knight Fellowship	2023 - 2024
	CMU Research Fellowship	2020 - present
	Open Future Essay Shortlist (top 6 of 2300+)	2019
	Graduation Speaker, <i>University of Chicago</i>	2019
	National Merit Scholarship	2015
Research Experience	Mozilla.ai, <i>Builder in Residence</i> , Research Agents	2025 - present
	Carnegie Mellon University, <i>Graduate Research Assistant</i>	2020 - present
	Google Research, <i>Student Researcher</i> , LLMs	2023
	Google Research, <i>Student Researcher</i> , Reasoning	2022
	Knowledge Lab, <i>Research Fellow with James Evans</i>	2020 - 2022
	University of Chicago, <i>Research Assistant to John Goldsmith</i>	2019
	University of Chicago, <i>Research Assistant to Ben Y. Zhao</i>	2017 - 2018
	University of Chicago, <i>Research Assistant to John Lafferty</i>	summer 2016
Other Work Experience	Berkman Center, Harvard University, <i>Research Assistant Intern</i>	summer 2015
	Performer, Teacher, Tour Guide, <i>UChicago Carillon Guild</i>	2016 - 2019
	Simmer (f.k.a. “Foodie”), <i>Machine Learning Lead</i>	2019
	Google X, <i>Software Engineer Intern</i>	summer 2018
	Area 1 Security, <i>Software Engineer Intern</i>	summer 2017
	Vision Education & Media, <i>Teaching kids to code</i>	summers 2010, 2013
Teaching	Computational Ethics in NLP, <i>Carnegie Mellon University</i>	2023
Mentorship	Milen Tesfaye (CS, Carnegie Mellon University)	2024 - present
	Conrad Schaumburg (AI, Carnegie Mellon University)	2023 - 2024
	Deblina Mukherjee (Statistics, University of Chicago)	2020

Service & Leadership	Vision Committee, <i>Language Technologies Institute</i>	2024 – 2025
	Education Committee, <i>Language Technologies Institute</i>	2022 - 2023
	Dean’s Advisory Committee, Chair, <i>CMU School of Computer Science</i>	2020 - 2022
	Empirical Methods in Natural Language Processing, Reviewer	2023, 2024*
	Association for Computational Linguistics, Reviewer	2023
	ACL Rolling Review, Reviewer	2025x2
	International Conference for Computational Social Science, Reviewer	2022, 2023
* Outstanding Reviewer		

Skills & interests **Programming:** Python, Haskell, Java, C++, C, PyTorch, sklearn, Hugging Face, Jax, SQL, slurm, bash, git, LaTeX, etc.

Other interests: Education, technology law & policy, creative coding, philosophy of language, philosophy of mind, history of the Internet, social choice theory, ethical use of technology, library science, electronic music, piano, carillon, baking, crafting, dancing, architecture.