Victoria Lin

PERSONAL INFORMATION	Phone: Email: Citizenship:	+1 (408) 318-4905 victoria@stat.cmu.edu United States, Canada		Website Google Scholar	
EDUCATION	Carnegie Mellon University Ph.D., Statistics and Machine Learning Advisors: Louis-Philippe Morency and Eli Ben-Michael			20 - May 2026 (expected)	
	Carnegie Mellon University M.S., Statistics		2020 - 2021		
	Carnegie Mellon University M.S., Computational Data Science			2018 - 2020	
	Harvard Un	iversity ude), Statistics and Molecul	ar & Cellular Biology	2013 - 2017	
Awards	Meta Researc	h PhD Fellowship		2023 - 2025	
	Two Sigma Diversity PhD Fellowship Finalist 2023				
	Best Paper Award Nominee, ICMI 2020 2020				
	Best Paper Award, AffCon Workshop at AAAI 2020 2020				
	Research Fellowship, Harvard College Program for Research in Science and Engineering 2016				
	Research Gra	nt, Harvard College Pechet	Family Research Fund	2016	
Experience	Carnegie Mellon University Graduate Research Assistant (Advisors: Louis-Philippe Morency and Eli Ben-Michael) I work on "causal NLP," or causal inference for natural language data and language models. Some				
	technical problems I find interesting include using causal principles to improve language models, learning causal effects from high-dimensional unstructured data like language, and learning language representations for valid causal inference.				
	Previously, I worked on affective computing and multimodal machine learning (with LP Morency and Jeffrey Girard) and mental health applications of causal inference (with Edward Kennedy).				
		esearch Cambridge rn (Host: Javier González)		2025	
	Microsoft Research & Microsoft Experiences+Devices JEM Research Intern (Hosts: Srinagesh Sharma and Dimitrios Dimitriadis)				
	Harvard School of Public Health Research Assistant (Advisor: Miguel Hernán) 2017			2017 - 2018	
		tute of MIT and Harvar stant (Advisor: Steven McC		2016 - 2017	

PUBLICATIONS

* denotes equal contribution

PEER-REVIEWED PUBLICATIONS

Victoria Lin, Louis-Philippe Morency, Eli Ben-Michael. "Isolated Causal Effects of Natural Language." [PDF, code] ICML 2025.

Victoria Lin, Eli Ben-Michael, Louis-Philippe Morency. "Optimizing Language Models for Human Preferences is a Causal Inference Problem." [PDF, code] UAI 2024.

Victoria Lin, Louis-Philippe Morency, Eli Ben-Michael. "TEXT-TRANSPORT: Toward Learning Causal Effects of Natural Language." [PDF, code] EMNLP 2023.

Victoria Lin, Louis-Philippe Morency, Dimitrios Dimitriadis, Srinagesh Sharma. "Counterfactual Augmentation for Multimodal Learning Under Presentation Bias." [PDF, code] EMNLP Findings 2023.

Victoria Lin, Louis-Philippe Morency. "SENTECON: Leveraging Lexicons to Learn Human-Interpretable Language Representations." [PDF, code]

ACL Findings 2023.

Aneesha Sampath, **Victoria Lin**, Louis-Philippe Morency. "SEEDBERT: Recovering Annotator Rating Distributions from an Aggregated Label." [PDF] *UDM Workshop at AAAI 2023*.

Victoria Lin*, Jeffrey Girard*, Michael Sayette, Louis-Philippe Morency. "Toward Multimodal Modeling of Emotional Expressiveness." [PDF, code] ICMI 2020. Nominated for Best Paper Award.

Sean McGrath*, **Victoria Lin***, Zilu Zhang, Lucia Petito, Roger Logan, Miguel Hernán, Jessica Young. "gfoRmula: An R Package for Estimating the Effects of Sustained Treatment Strategies via the Parametric g-formula." [PDF, code] *Patterns* 1(3), 100008.

Victoria Lin, Jeffrey Girard, Louis-Philippe Morency. "Context-Dependent Models for Predicting and Characterizing Facial Expressiveness." [PDF]

AffCon Workshop at AAAI 2020. Best Paper Award.

Leslie Tong, Seo Yeon Yoon, Yaisa Andrews-Zwilling, Alyssa Yang, **Victoria Lin**, Hanci Lei, Yadong Huang. "Enhancing GABA Signaling during Middle Adulthood Prevents Age-Dependent GABAergic Interneuron Decline and Learning and Memory Deficits in ApoE4 Mice." [PDF] *Journal of Neuroscience* 36(7), 2316-2322.

SOFTWARE LIBRARIES

sentecon (3,000+ downloads): Python library for interpretable language representations. gfoRmula (36,000+ downloads): R package for causal effect estimation with the g-formula.

Presentations Invited Talks

Carnegie Mellon University DeGroot Research Workshop

Counterfactual Augmentation for Learning Under Presentation Bias.

2023

Contributed Talks

American Causal Inference Conference (ACIC) Isolated Causal Effects of Natural Language.

2025 (to occur)

American Causal Inference Conference (ACIC)

2023

Generalizing Text Experiments to Real-World Contexts with Large Language Models.

International Conference on Multimodal Interaction (ICMI) Toward Multimodal Modeling of Emotional Expressiveness.

2020

AffCon Workshop at the AAAI Conference on Artificial Intelligence

2020

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Context-Dependent Models for Predicting and Characterizing Facial Expressiveness.

REVIEWING

UAI (2025), ACL (2023), EMNLP (2022, 2023)

Teaching

 ${\bf Carnegie\ Mellon\ University\ \it Graduate\ \it Teaching\ \it Assistant}$

36-402 Advanced Methods for Data Analysis	Spring 2023
36-468 Text Analysis	Fall 2022
36-462 Methods of Statistical Learning	Spring 2022
36-309 Experimental Design for Behavioral & Social Sciences	Fall 2021
36-401 Modern Regression	Fall 2020
11-631 Data Science Seminar (also as guest lecturer)	Fall 2019

Harvard University Undergraduate Teaching Fellow

CS109A Data Science

Fall 2016

MENTORSHIP

Aneesha Sampath (CMU B.S. → University of Michigan Ph.D.)

SKILLS

Programming & Frameworks: Python, PyTorch, R, SQL, Java, C/C++, Bash, Git, LATEX Languages: English (native), Mandarin Chinese (heritage)