Claudia (Jingyi) Shi

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EDUCATION

Columbia University Ph.D. in Computer Science, Advisor: David Blei

Columbia University M.S. in Computer Science

Tulane University

B.S. in Math and Economics, B.A. in Philosophy

- General course (2016 - 2017) at the London School of Economics

PUBLICATIONS & PREPRINTS

- 1. A. Nazaret, C. Shi, D. Blei. On Misspecification in Synthetic Controls. AISTATS 2024 Oral
- N. Scherrer*, C. Shi*, A. Feder, and D. Blei. Evaluating the Moral Beliefs Encoded in LLMs (*equal contribution) Neural Information Processing Systems (NeurIPS), 2023 (Spotlight).
- 3. A. Feder^{*}, Y. Wald^{*}, C. Shi, S. Saria, and D. Blei. Causal-structure Driven Augmentations for Text OOD Generalization (*equal contribution) Neural Information Processing Systems (NeurIPS), 2023
- 4. S. Casper, X. Davies, C. Shi, T. K. Gilbert, J.Scheurer, J.Rando, ... & D. Hadfield-Menell (2023). Open problems and fundamental limitations of reinforcement learning from human feedback. *TMLR 2023*.
- C. Zheng^{*}, C. Shi^{*}, K. Vafa, A. Feder, and D. Blei. An Invariant Learning Characterization of Controlled Text Generation (equal contribution) ACL, 2023.
- M. Yin, C. Shi, Y. Wang, and D. Blei. Conformal Sensitivity Analysis for Individual Treatment Effect. Journal of the American Statistical Association (JASA), 2022.
- 7. C. Shi, D. Sridhar, V. Misra, and D. Blei. On the Assumptions of Synthetic Control Methods. Conference on Artificial Intelligence and Statistics (AISTATS), 2022. (ORAL)
- 8. C.Shi, V. Veitch, and D.Blei. 2021. Invariant Representation Learning for Treatment Effect Estimation. Uncertainty in Artificial Intelligence (UAI), 2021. (Long talk)
- 9. C.Shi, D.Blei, and V. Veitch. 2019. Adapting Neural Networks for the Estimation of Treatment Effects. Neural Information Processing Systems (NeurIPS), 2019.

$Under \ Review$

- 10. M. Harrington, M. Alkon, X. He, C. Shi, R. Kennedy, J. Kopas, and J. Urpelainen. Anthropogenic Influences Increasingly Predict Groundwater Depletion Across India. *Environmental Research Letters (minor revision)*
- 11. C. Shi^{*}, N. Beltran^{*}, A.Nazaret, A. Garriga-Alonso, A. Jesson, M. Makar, D. Blei. Circuit Checker: Hypothesis Testing for Circuits in LLMs. *ICML 2024*

INVITED TALKS

- On the Assumptions and Misspecification of Synthetic Control Methods CMStatistics 2023
- Evaluating Moral Beliefs Encoded in LLMs New York Academy of Sciences AI and Society Seminar, 2023
- Evaluating Moral Beliefs Encoded in LLMs

• Evaluating Moral Beliefs Encoded in LLMs

NYU CDS Lunch Seminar , 2023 Columbia workshop on text and LLMs , 2023

New York, NY Jan 2020–Current

New York, NY Sep 2018–Dec 2019

New Orleans, LA Sep 2014–May 2018

• Evaluating Moral Beliefs Encoded in LLMs	Center for Human Compatible AI workshop, 2023
• On the Assumptions of Synthetic Control Methods.	ICSA Applied Statistics Symposium, 2023
• On the Assumptions of Synthetic Control Methods.	American Causal Inference Conference, 2023
• On the Assumptions of Synthetic Control Methods.	Center for Causal Inference Seminar, Jan 2022
• Synthetic Controls, When do They Work and Why?	Amazon Causal Inference Group, July 2021
• Nearly Invariant Causal Estimation	Lyft Causal Inference Seminar, Feb 2021
Adapting Neural Networks for Causal Estimation	Oxford Machine Learning and Statistics Seminar, July 2019

SFF Grant (\$60k) Research grant to work on beneficial AI. Long Term Future Fund Grant (\$5k) For organizing "Human-aligned AI" Official NeurIPS Social. (with Adam Gleave and Victor Veitch) Columbia CA Fellowship (\$15k) Awarded CA fellowship for noteworthy performance as a TA Tulane Presidential Scholarship (\$120k) Merit based scholarship going towards tuition.

PROFESSIONAL EXPERIENCE

Awards & Grants

Technical Advisor	April 2022 – Now	
FAR (https://alignmentfund.org/)		
- Advise research interns on language model safety projects.		
Amazon Applied Science Intern	June 2021 – Sep 2021	
Supervised By Dominik Janzing (received a return offer)		
- Developed a probabilistic model and inference procedure for counterfactual estimation.		

PROFESSIONAL ACTIVITIES

- NeurIPS workshop on Causal Representation Learning: organizer, area chair 2023
- ICML workshop on Spurious correlations, Invariance, and Stability: organizer 2023
- Machine Learning NYC Speaker Series: Organizer of a city-wide speaker series and happy hours (2022 Now)
- Columbia ML Reading Group: Organizer of Columbia ML reading group (2020 2022)
- NeurIPS Social: Organized Human Compatible AI social at NeurIPS 2019
- Conference Reviewing:
 - International Conference on Learning Representations (2021, 2022, 2023)
 - International Conference on Artificial Intelligence and Statistics (2022)
 - Neural Information Processing Systems (2020, 2021, 2023)
 - International Conference on Machine Learning (2020, 2022)

2020

2019

2019

2014