🗠: luhao.zhang@jhu.edu | 🏠: luhao-zhang.github.io POSITIONS Johns Hopkins University, Baltimore, MD, USA Jan 2025 -Assistant Professor, Department of Applied Math and Statistics Columbia University, New York, NY, USA Sep 2023 - Dec 2024 Postdoctoral Research Scientist, Department of IEOR EDUCATION The University of Texas at Austin, Austin, TX, USA Ph.D. in Mathematics Aug 2018 - Aug 2023 Xi'an Jiaotong University, Xi'an, Shaanxi, China B.S. in Mathematics and Applied Mathematics (Honors Program) Aug 2014 - June 2018 Special Class for the Gifted Young Aug 2012 - June 2014 RESEARCH **Publications** PAPERS 1. Luhao Zhang, Jincheng Yang, Rui Gao. Optimal Robust Policy for Feature-Based Newsvendor (2023), Management Science 70(4):2315-2329. 2. Luhao Zhang, Jincheng Yang, Rui Gao. A Short and General Duality Proof for Wasserstein Distributionally Robust Optimization (2024), Operations Research, forthcoming. Preprints 3. Renyuan Xu, Thaleia Zariphopoulou, Luhao Zhang. Decision Making under Costly Sequential Information Acquisition: the Paradigm of Reversible and Irreversible Decisions, Submitted. 4. Jincheng Yang, Luhao Zhang, Ningyuan Chen, Rui Gao, Ming Hu. Decision-making with Side Information: A Causal Transport Robust Approach, Submitted. **Conference** papers 5. Luhao Zhang, Mohsen Ghassemi, Ivan Brugere, Alan Mishler, Niccolo Dalmasso, Vamsi

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5. Luhao Zhang, Mohsen Ghassemi, Ivan Brugere, Alan Mishler, Niccolo Dalmasso, Vamsi Potluru, Tucker Balch, Manuela Veloso. *Conditional Demographic Parity Through Optimal Transport* (2022), accepted by *NeurIPS* Workshop on Algorithmic Fairness through the Lens of Causality and Privacy.

- A conference version is submitted to 39th AAAI Conference on Artificial Intelligence (AAAI-25).
- PATENTS 1. Method and system for obtaining conditional demographic parity through optimal transport in data-driven model (2024), U.S. 2024/0303532 A1.

Industry	J.P.Morgan Chase, AI Research, New York, NY			
Experience	AI Researcher (Intern)	June - Aug 2022		
	• Developed an efficient algorithm to achieve conditional demographic parity using causal transport distance			
	• Preliminary results accepted by NeurIPS Workshop on Algorithmic Fairness through the Lens of Causality and Privacy			
Award	Frank Gerth III Teaching Excellence Award, UT Austin	2021		
	Selected to present at the Cornell ORIE Young Researchers Workshop	Summer 2021		
	Graduate School Summer Fellowship, UT Austin,	Summer 2021		
	Graduate Continuing Bruton Fellowship, UT Austin,	Spring 2022		
	Professional Development Award, UT Austin,	Spring, Fall 2022		
	Student Travel Award, SIAM,	May 2023		
	Meritorious Service Award, Mathematical Programming	2023		
Professional	Referee			
Service	Mathematical Programming			
	(2023 Meritorious Service Award)			
	• Operations Research			
	• Management Science			
	• Mathematics of Operations Research			
	• Production and Operations Management			
	• 3rd ACM International Conference on AI in Finance			
	Session Chair			
	• INFORMS 2021, Invited session of Learning and Decision-making with Contextual Informa- tion			
	• INFORMS 2022, Invited session of Data-driven Decision Making			
	• INFORMS 2023, Invited session of Decision-making under Uncertainty			
	• ICSP 2023, Mini-symposium of Causal transport and adapted Wasserstein distance			
	• INFORMS 2024, Invited session of Decision-making under Uncertainty			

Invited Talks	Robust Optimization Webinar Series	May 2021	
	• International Conference of the Chinese Scholars Association for Management Science and Engineering (CSAMSE), Shanghai Jiaotong University July 2021		
	• Cornell ORIE Young Researchers Workshop, Ithaca, NY	Oct 2021	
	• INFORMS Annual Meeting, Anaheim, CA	Oct 2021	
	• Conference on Artificial Intelligence, Machine Learning, and Business Analytics, Rutgers University Dec 2021		
	• Texas Women in Math Symposium, Rice University	Feb 2022	
	• INFORMS Optimization Society Conference, Greenville, SC	March 2022	
	• SIAM Annual Meeting, Pittsburgh, PA	July 2022	
	• INFORMS Annual Meeting, Indianapolis, IN	Oct 2022	
	• Western Conference on Mathematical Finance, UC Berkeley, CA	March 2023	
	• SIAM Conference on Optimization (OP23), Seattle, Washington	May 2023	
	• International Conference Stochastic Programming (ICSP), Davis, CA	July 2023	
	• INFORMS Annual Meeting, Phoenix, AZ	October 2023	
	• Workshop on Decision Making and Uncertainty, IMSI, Chicago, IL	February 2024	
	• INFORMS Optimization Society Conference, Houston, TX	March 2024	
	• Mathematical Finance Seminar Series, Columbia University, NY	March 2024	
	• Actuarial Science and Financial Mathematics seminar series, University of Waterloo, Canada July 2024		
	• Bachelier World Congress of the Bachelier Finance Society, Rio de Janeiro, Brazil July 2024		
	 International Symposium on Mathematical Programming (ISMP), Montréa 2024 	l, Canada July	
	• INFORMS Conference on Financial Engineering and FinTech, Hong Kong	August 2024	
	• Workshop on Mathematical Insights from Markets, Control, and Learning, Spotlight talk , Aussois, France September 2024		
	• INFORMS Annual Meeting, Seattle, WA	October 2024	
Mentorship	Directed Reading Program		
	• Sonali Singh, on the topic of <i>Stochastic Calculus for Finance</i>	Spring 2020	
	• Wenxuan Jiang, on the topic of Stochastic Calculus for Finance	Fall 2021	
	• Haoze Yan, on the topic of <i>Stochastic Programming</i>	Spring, Fall 2022	
	• Yuxiang Gao, on the topic of <i>Elements of Statistical Learning</i>	Spring 2022	