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Appointment	School of Business, Purdue University West Lafayette, IN, USA <u>Assistant Professor</u> (Tenure-Track)	June 2022 - Current	
Education	University of North Carolina at Chapel HillMay 2021Chapel Hill, NC, USAPh.D. in StatisticsAdvisor: Yufeng LiuDissertation: Efficiency and Robustness in Individualized Decision Making		
	Nankai University <i>Tianjin, China</i> <u>B.B.A.</u> in Business Administration <u>B.S.</u> in Mathematics	June 2016	
Research Interests	 Statistical machine learning and reinforcement learning Personalized decision marking Causal inference and semiparametric inference Robust optimization 		
Publications	Journal 1 Mo. W. and Liu Y (2022) Efficient learning of optimal individualized treatment rules for		

- 1 Mo, W., and Liu, Y. (2022). Efficient learning of optimal individualized treatment rules for heteroscedastic or misspecied treatment-free effect models. *Journal of the Royal Statistical Society: Series B (Statistical Methodology)*, 84(2): 440-472. DOI: 10.1111/rssb.12474.
- 2 Mo, W.^{*}, Qi, Z.^{*}, and Liu, Y. (2021). Learning optimal distributionally robust individualized treatment rules (with discussion and our rejoinder). *Journal of the American Statistical Association*,
 - (main paper) 116(533): 659-674, DOI: 10.1080/01621459.2020.1796359;
 - (rejoinder) 116(533): 699-707, DOI: 10.1080/01621459.2020.1866581.

Conference Proceeding

- 1 Dong, J., Mo, W., Qi, Z., Shi, C., Fang, X., and Tarokh, V. (2023). PASTA: Pessimistic assortment optimization. In *International Conference on Machine Learning (ICML) 2023*.
- 2 Mo, W., Yu, H., and Liu, C. (2021). Markdown first reinforcement learning pricing with demand learning. In Amazon Machine Learning Conference 2021.

Book Chapter

- 1 Mo, W., and Liu, Y. (2022+). A selective review of individualized decision making. In *Precision Medicine: New Methods and Applications*. To appear.
- 2 Mo, W., and Liu, Y. (2021). Supervised learning. In Wiley StatsRef: Statistics Reference Online (eds N. Balakrishnan, T. Colton, B. Everitt, W. Piegorsch, F. Ruggeri and J.L. Teugels), DOI: 10.1002/9781118445112.stat08302.

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Teaching	 Instructor Purdue University MGMT 30500 (Business Statistics): Spring 2023, Spring 2024. MGMT 69000 (Causal Inference and Semi-Parametric Inference, PhD): Fall 2022. 		
	 Teaching Assistance University of North Carolina at Chapel Hill STOR 555 (Mathematical Statistics): Fall 2016. STOR 556 (Applied Time Series): Spring 2017. STOR 565 (Machine Learning): Spring 2018, Fall 2020. STOR 612 (Models in Operations Research, graduate): Fall 2017. STOR 635 (Probability, graduate): Spring 2018. STOR 767 (Machine Learning, graduate): Spring 2019. Introduction to Statistical Machine Learning Using R, 2019 Data Matters (http://org). 	os://datamatters.	
Honors	Excellence in Teaching Assistance and Instruction Award Department of Statistics and Operations Research, UNC-Chapel Hill	Dec. 2020	
	Student Paper Competition Winner Statistical Learning and Data Science Section, American Statistical Association	Aug. 2020	
	Cambanis-Hoeffding-Nicholson Award Department of Statistics and Operations Research, UNC-Chapel Hill (for outstanding academic performance during first year of Ph.D. studies)	Dec. 2017	
Presentations	• "Efficient Learning of Optimal Individualized Treatment Rules", ICSA 2023 China Conference (Chengdu, China), July 2023.		
	• "Efficient Learning for Personalized Decision Making", 15th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics) (London, United Kingdom), Dec. 2022.		
	• "Efficient Learning for Personalized Decision Making", INFORMS Annual Meeting (Indi- anapolis, IN), Oct. 2022.		
	• "Efficient Learning of Optimal Individualized Treatment Rules", Center for Data Science, Zhejiang University (Hangzhou, ZJ, China), Oct. 2022.		
	• "Learning Optimal Distributionally Robust Individualized Treatment Rules", the Fifth ICSA- Canada Chapter Symposium (Banff, AB, Canada), Jul. 2022.		
	• "Markdown First Reinforcement Learning Pricing with Demand Learning" (poster), Amazon Machine Learning Conference (virtual), Oct. 2021.		
	• "Learning Optimal Distributionally Robust Individualized Treatment Rules" (contributed talk), Joint Statistical Meetings (virtual), Aug. 2020.		
	• "Variance-Regularized Policy Learning" (poster), Statistical and Computational Challenges in Precision Medicine Workshop (Minneapolis, MN), Nov. 2018.		
	• "Recent Development in Dynamic Treatment Regime" (poster), Conference Learning and Data Science / Nonparametric Statistics (New York, NY), June	on Statistical e 2018.	
Academic Services	Reviewers for Journal of the American Statistical Association, Mathematical Programming, An- nals of Applied Statistics, Journal of Multivariate Analysis, Canadian Journal of Statistics, Stat, Statistics in Biosciences, Statistical Methods in Medical Research.		

Industrial Experience	AmazonMSeattle, WA, USAApplied Scientist in Supplied Chain OptimiDeveloped machine learning methodologiesment	May 2020 - Aug. 2020; June 2021 - June 2022 n Optimization Technologies (SCOT) odologies and algorithms for pricing and inventory manage-	
	SAS <i>Cary, NC, USA</i> <u>Graduate Statistical Intern</u> in R&D Organiz Statistical programming for SAS procedures	June 2019 - Aug. 2019 ization es	
	Boehringer Ingelheim Pharmaceutical <i>Ridgefield, CT, USA</i> <u>Biostatistician Intern</u> in Clinical Trial Post-hoc research on clinical trials for respin	lls May 2017 - July 2017 iratory disease	
Volunteer Experience	Clover Youth Guangzhou, Guangdong, China Project Assistant, <u>Human Resource Manage</u> Supported migrant children development vie	Sep. 2012 - Feb. 2014 ger in Summer Camp Program ria peer-led programs	