

Xinran Miao

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EDUCATION	Ph.D. in Statistics University of Wisconsin-Madison, USA • Advisor: Jiwei Zhao	Fall 2021 - present
	M.S. in Statistics University of Wisconsin-Madison, USA	Fall 2019 - Spring 2021
	B.S. in Statistics Nankai University, China	Fall 2016 - Spring 2020
RESEARCH INTERESTS	Model transportability, post-prediction inference, sensitivity analysis, semiparametric methods, and causal inference.	
WORKING PAPERS	1. Miao, X. and Zhao. J, 2024. Transportability Index and Its Efficient Estimation. <i>Under Review</i> .	
PUBLICATIONS & PREPRINTS	5. Miao, J.* , Miao, X.* , Wu, Y., Zhao, J., and Lu, Q. (2023). Assumption-lean and Data-adaptive Post-Prediction Inference. <i>Submitted</i> . [Preprint]	
	4. Miao, J., Wu, Y., Sun, Z., Miao, X. , Lu, T., Zhao, J., and Lu, Q. (2024). Valid inference for machine learning-assisted GWAS. <i>Submitted</i> . [Preprint]	
	3. Mao, L., Kim, K. and Miao, X. , 2022. Sample size formula for general win ratio analysis. <i>Biometrics</i> , 78(3), pp.1257-1268. [Journal]	
	2. Zheng, M., Miao, X. and Sankaran, K., 2022. Interactive Visualization and Representation Analysis Applied to Glacier Segmentation. <i>ISPRS International Journal of Geo-Information</i> , 11(8), p.415. [Journal]	
	1. Hernando, D., Zhao, R., Yuan, Q., Aliyari Ghasabeh, M., Ruschke, S., Miao, X. , Karampinos, D.C., Mao, L., Harris, D.T., Mattison, R.J. and Jeng, M.R., Pedrosa, I., Kamel, I.R., Vasanawala, S., Yokoo, T. and Reeder, S.B. 2022. Multicenter Reproducibility of Liver Iron Quantification with 1.5-T and 3.0-T MRI. <i>Radiology</i> , p.213256. [Journal]	
	* Co-first authors.	
TEACHING EXPERIENCE	Teaching Assistant at UW-Madison	
	• STAT 575: Statistical Methods for Spatial Data	Spring 2024
	• STAT 849: Theory and Application of Regression and Analysis of Variance I	Fall 2023
	• STAT 301: Introductory to Statistics	Fall 2021, Spring 2022

TALKS & POSTERS

- (Poster) Efficient Estimation for the Transportability Index using Neural Networks. *Statistics and Optimization in Data Science Workshop*, Purdue University, June 2023.
- (Poster) Efficient Estimation for the Transportability Index using Neural Networks. *Midwest Machine Learning Symposium 2023*, May 2023.
- (Talk) Transportability Index: Inverse Probability Weighting with Neural Network. Statistics Graduate Student Association Seminar at UW-Madison, December 2022.

PROFESSIONAL ORGANIZATIONS

- Institute of Mathematical Statistics.