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INFORMATION	1205 University Ave, Madison, WI 53706, USA	Email: jiawei.shan@wisc.edu

CURRENT POSITION	Postdoctoral Researcher	3/2025 - present
	Department of Biostatistics and Medical Informatics	
	Department of Statistics	
	University of Wisconsin-Madison	

EDUCATION	Renmin University of China , Institute of Statistics and Big Data	
	PhD in Statistics	9/2019 - 12/2024
	Advisor: Chunrong Ai	
	Shandong University , School of Mathematics	
	BS in Mathematics	9/2015 - 6/2019

EXPERIENCE	The Chinese University of Hong Kong, Shenzhen , School of Management and Economics	
	Visiting Scholar	9/2021 - 12/2024
	The Academy of Mathematics and Systems Science	
	Undergraduate Exchange Student, Joint Training Program	9/2018 - 6/2019

RESEARCH INTERESTS	Causal inference, missing data analysis, machine learning, and semiparametric methodology that are relevant to the pursuit of efficiency, robustness and their tradeoff
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PUBLICATIONS	(<i>*corresponding author, [†]alphabetical authorship or equal contribution</i>)
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- [1] **Shan, J.**, Li, W., and Ai, C. (2026). Efficient nonparametric inference for mediation analysis with nonignorable missing confounders. *Journal of the American Statistical Association*. In press.
- [2] **Shan, J.**, Ying, C., and Zhao, J. (2026). Discussion of ‘Augmented balancing weights as linear regression’ by Bruns-Smith et al. *Journal of the Royal Statistical Society Series B*. In press.

- [3] Ai, C., and **Shan, J.*** (2025). Efficient estimation of average treatment effects with unmeasured confounding and proxies. *Statistica Sinica*. In press.
- [4] **Shan, J.[†]**, Wang, T.[†], Li, W., and Ai, C. (2025). Nonparametric estimation of path-specific effects in presence of nonignorable missing covariates. *Scandinavian Journal of Statistics*, 52(4), 1556–1593.
- [5] Ai, C., **Shan, J.***, and Zhu, L. (2025). Kernel estimation of average treatment effects in models with unmeasured confounders. *Canadian Journal of Statistics*. In press.
- [6] **Shan, J.**, and Yan, X. (2024). Nonparametric causal inference with confounders missing not at random. *Statistica Neerlandica*, 78(4), 573–583.

WORKING PAPERS

(**corresponding author, [†] alphabetical authorship or equal contribution*)

- [1] **Shan, J.**, Chen, Z., Dong, Y., Wang, Y., and Zhao, J. (2025). SADA: Safe and adaptive aggregation of multiple black-box predictions in semi-supervised learning. *arXiv preprint arXiv:2509.21707*. Major revision at *Annals of Applied Statistics*.
- [2] Ghosh, T.[†], **Shan, J.[†]**, Yu, M.[†], and Zhao, J.[†] (2026). Efficient estimation of average treatment effect on the treated under endogenous treatment assignment. R&R at *Journal of Machine Learning Research*.
- [3] Zhang, X., **Shan, J.***, and Li, W.* (2026+). Proximal mediation analysis with unmeasured treatment-induced confounding. Submitted.

PRESENTATIONS (*Including scheduled presentations*)

- [1] SLDS 2026 Conference: Inference and Intelligence. New York, NY, USA. 11/2026
- [2] 2026 Joint Statistical Meetings. Boston, MA, USA. 8/2026
- [3] IMSI Workshop at University of Chicago. Chicago, IL, USA. 6/2026
- [4] ENAR 2026 Spring Meeting. Indianapolis, IN, USA. 3/2026
- [5] BMI Seminar at University of Wisconsin-Madison. Madison, WI, USA. 11/2025
- [6] 2025 Joint Statistical Meetings. Nashville, TN, USA. 8/2025
- [7] The 8th National PhD Student Forum in Statistics. Guangzhou, China. 9/2024
- [8] The 2nd Joint Conference on Statistics and Data Science. Kunming, China. 7/2024

- [9] The 4th Symposium on “Big Data Econometrics Theory and Applications–Artificial Intelligence and Econometric Modeling”. Xiamen, China. 5/2024
- [10] The 2023 National PhD Student Forum in Quantitative Economics. Xiamen, China. 11/2023

TEACHING **Causal Inference** (Graduate Level) Fall 2022
 EXPERIENCE *Teaching Assistant*, Renmin University of China

Biostatistics (Graduate Level) Fall 2021
Teaching Assistant, Renmin University of China

PROFESSIONAL **Referee** (* indicates more than one paper reviewed)
 SERVICES
2026:
*Annals of Applied Statistics**, *ICML*, *Scandinavian Journal of Statistics*, *TMLR*
2025:
AISTATS, *Annals of Applied Statistics*, *Biometrics*, *Journal of Nonparametric Statistics**,
Journal of the Royal Statistical Society Series A: Statistics in Society, *Scandinavian Journal of Statistics**

REFERENCES

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