Xiaoyi Wen

Contact Information

Department of Epidemiology & Biostatistics
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Research Interest

- **Theory:** random graph analysis, kernel methods, deep generative models.
- **Applications:** statistical machine learning for medical data analysis and uncertainty quantification, including brain imaging, tumor segmentation, three-dimensional velocity-field reconstruction.

Education

PhD. Statistics, *Renmin University of China* 2021-2025
Advisor: Prof. Liping Zhu

PhD Visiting Student. Statistics, *London School of Economics and Political Science* 2023-2024
Advisor: Prof. Zoltán Szabó

MSc. Statistics, *University of Hong Kong* 2019-2020
Advisor: Prof. Jinfeng Xu

BSc. Applied Statistics, *Shanghai University of International Business and Economics* 2015-2019

Work experience

Postdoctoral Scholar, *University of California, San Francisco, Full-time* Jun.2025-Now
Advisor: Dr. Fei Jiang

Research Assistant, *Southern University of Science and Technology, Full-time* Aug.2020-Jun.2021

Publications

- **Wen X**, Wang J, Zhu L. RKHS-Based Latent Position Random Graph Correlation. Journal of Computational and Graphical Statistics. In Press. [DOI] [arXiv]
- **Wen X**. Two-sample testing for random graphs. Statistical Analysis and Data Mining. 2024, 17(4):e11703. [DOI]
- Ni M, **Wen X**, Zhang M, et al. Predictive value of the diffusion magnetic resonance imaging technique for the postoperative outcome of cervical spondylotic myelopathy. Journal of Magnetic Resonance Imaging. 2024, 59(2):599-610. [DOI]
- **Wen X**, Xu J. Generalized Accelerated Failure Time Models for Recurrent Events[J]. Mathematics, 2022, 10(15): 2662. [DOI]
- Ni M, **Wen X**, Chen W, et al. A Deep Learning Approach for MRI in the Diagnosis of Labral Injuries of the Hip Joint[J]. Journal of Magnetic Resonance Imaging, 2022. [DOI]
- Ni M, Zhao Y, **Wen X**, et al. Deep learning-assisted classification of calcaneofibular ligament injuries in the ankle joint[J]. Quantitative Imaging in Medicine and Surgery, 2022. [DOI]

Manuscripts

- Xiaoyi Wen, Fei Jiang. IWCAE: Importance-Weighted Conditional Autoencoders for Domain-Adaptive Generative Modeling. (Working paper)
- Xiaoyi Wen, Chao Huang, Joseph Leach, Jonas Schollenberger, Evan Kao, Fei Jiang. Functional Regression on Local Surface with Application to Abdominal Aortic Aneurysm Wall Stress. Major Revision at Annals of Applied Statistics.
- Xiaoyi Wen, Fei Jiang. Distributional Deep Learning for Super-Resolution of 4D Flow MRI under Domain Shift. Reject & Resubmit at Journal of the American Statistical Association. [arXiv]
- Xiaoyi Wen, Zoltán Szabó. Joint Independence Testing for Latent Position Random Graphs. (Working paper)

Honors & Awards

Scholarship, Renmin University of China. 2021-2025

Scholarship, Shanghai University of International Business and Economics. 2015-2019