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2023 - present **Associate Professor** (with tenure), Department of Biostatistics, University of Michigan, USA

EDUCATION AND TRAINING

2016 Postdoctoral Fellow, Johns Hopkins Individualized Health Initiative, Baltimore, MD, US
2014 Ph.D. in Biostatistics, Johns Hopkins Bloomberg School of Public Health (JHSPH), Baltimore, MD, US
2009 B.Sc. in Mathematics. First Class Honors, Fudan University, Shanghai, China

SELECTED PUBLICATIONS “—”: advisee; Citations: 2,916 ([Google Scholar](#)); h-index: 24; i-10 index: 41

- 1** Li M, Stephenson BJK[†], **Wu Z**[†] (2025). Tree-Regularized Bayesian Latent Class Analysis for Improving Weakly Separated Dietary Pattern Subtyping in Small-Sized Subpopulations. (†: co-senior authors). ► *Annals of Applied Statistics*. Accepted. [[arXiv](#)][[R package](#)][[shinyapp](#)][[CRAN](#)]
- 2** **Wu Z**, Li RZ, [Chen I](#), [Li M](#) (2024). Tree-Informed Bayesian Multi-Source Domain Adaptation: Cross-population Probabilistic Cause-of-death Assignment using Verbal Autopsy. ► *Biostatistics*. [[Paper](#)][[R package: doubletree](#)]
- 3** Li M, Park DE, Aziz M, Liu CM, Price LB, **Wu Z** (2023). Integrating sample similarity information into latent class analysis: a tree-structured shrinkage approach. ► *Biometrics* 79(1):264-279. doi: 10.1111/biom.13580. PMID:PMC10642217. PMID:34658017.[[Early View](#)][[bioRxiv](#)]
- 4** Wang J, Shi C, **Wu Z** (2023). A Robust Test for the Stationarity Assumption in Sequential Decision Making. ► *40th International Conference on Machine Learning (ICML)*.
- 5** Li M[#], Shi C[#], **Wu Z**[†], Fryzlewicz P[†] (2025). Testing stationarity and change point detection in reinforcement learning. (#: co-first authors; †: co-senior authors). ► *Annals of Statistics*. [[arXiv](#)][[Python code](#)]
- 6** **Wu Z**, Casciola-Rosen L, Rosen A, Zeger SL (2020). A Bayesian approach to restricted latent class models for scientifically-structured clustering of multivariate binary outcomes. ► *Biometrics* 77(4): 1431-1444.
- 7** NeCamp T, Sen S, Frank E, Walton M, Ionides E, Fang Y, Tewari A, **Wu Z** (2020). Assessing real-time moderation for developing adaptive mobile health interventions for medical interns: micro-randomized trial. ► *Journal of Medical Internet Research (JMIR)* 22(3): e15033. doi: 10.2196/15033.
- 8** **Wu Z**, Deloria-Knoll M, and Zeger SL (2017). Nested partially-latent class models (npLCM) for dependent binary data; estimating disease etiology. ► *Biostatistics* 18(2): 200-213. PMID: 27549120. doi: 10.1093/biostatistics/kxw037. [[Software paper](#)][[R package](#)]

SELECTED SOFTWARE

baker: Bayesian Analysis Kit for Etiology Research [[CRAN](#)][[Development version](#)][downloads: ~83,000]
doubletree: Nested latent class models with double-tree shrinkage [[Github](#)]
ddtlcm: Tree-regularized Latent Class Analysis to Overcome Weakly Separation [[shinyapp](#)][[CRAN](#)][[Github](#)]

SELECTED EDITORIAL SERVICE

Associate Editor *Annals of Applied Statistics* (2024-), *Biostatistics* (2024-), *Journal of the Royal Statistical Society, Series A: Statistics in Society* (2025-)
Standing Statistical Reviewer *New England Journal of Medicine*, *Artificial Intelligence* (2024-)