Yuanshan Wu

Curriculum Vitae

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Basic Information

Snail Mail   School of Statistics and Mathematics
Zhongnan University of Economics and Law
Wuhan, Hubei 430073, P. R. China

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Research Interests

High-Dimensional Data Analysis

Quantile Regression

Survival Analysis

Education

2004–2010   Ph.D., Statistics, Wuhan University

2000–2004   B.S., Mathematics, Xiangfan University

Professional Experiences

08/2018 –now   Professor
School of Statistics and Mathematics, Zhongnan University of Economics and Law

08/2018 –now   Doctoral Supervisor
School of Statistics and Mathematics, Zhongnan University of Economics and Law

05/2016 –07/2018   Doctoral Supervisor
School of Mathematics and Statistics, Wuhan University

12/2015 –07/2018   Associate Professor
School of Mathematics and Statistics, Wuhan University

07/2015 –07/2018   Member With Class D
Collaborative Innovation Center of Mathematics, Wuhan University

02/2014 –03/2015   Research Associate
Department of Statistics and Actuarial Science, University of Hong Kong

01/2013 –02/2013	Research Assistant
	Department of Statistics and Actuarial Science, University of Hong Kong
02/2011 –08/2012	Research Assistant
	Department of Statistics and Actuarial Science, University of Hong Kong
07/2010 –11/2015	Assistant Professor
	School of Mathematics and Statistics, Wuhan University
09/2008 –03/2010	Visiting Scholar
	Department of Biostatistics, University of North Carolina at Chapel Hill

Publications

Peer-Reviewed Papers

2021   Mao, G., Liu, Y., **Wu, Y.***, and Yang, Q. The Hazard Level Set. *Journal of Nonparametric Statistics*, in preprint.

Liu, Y., **Wu, Y.**, Zhang, J., and Zhou, H. Cox Regression Analysis for Distorted Covariates With an Unknown Distortion Function. *Biometrical Journal*, in preprint.

2020   Zhang, C., **Wu, Y.**, and Yin, G. Restricted Mean Survival Time for Interval-Censored Data. *Statistics in Medicine*, in preprint.

He, B., Liu, Y., **Wu, Y.***, Yin, G., and Zhao, X. Functional Martingale Residual Process for High-Dimensional Cox Regression With Model Averaging. *Journal of Machine Learning Research*, in preprint.

He, B., Liu, Y., **Wu, Y.**, Zhao, X. Semiparametric Efficient Estimation for Additive Hazards Regression With Case II Interval-Censored Survival Data. *Lifetime Data Analysis*, in preprint.

Wang, M., **Wu, Y.**, and Yang, Q. Adaptive Penalized Weighted Least Absolute Deviations Estimation for the Accelerated Failure Time Model. *Acta Mathematica Sinica, English Series*, in preprint.

2018   Shi, Y., **Wu, Y.**, Xu, D., and Jiao, Y. An ADMM With Continuation Algorithm for Nonconvex SICA-penalized Regression in High Dimensions. *Journal of Statistical Computation and Simulation* **88**, 1826–1846.

Zhang, J., Yin, G., Liu, Y., and **Wu, Y.*** Censored Cumulative Residual Independent Screening for Ultrahigh-Dimensional Survival Data. *Lifetime Data Analysis* **24**, 273–292.

2017   **Wu, Y.*** and Yin, G. Multiple Imputation for Cure Rate Quantile Regression With Censored Data. *Biometrics* **73**, 94–103.

Zhao, X., **Wu, Y.**, and Yin, G. Sieve Maximum Likelihood Estimation for a Class of Accelerated Hazards Models. *Bernoulli* **23**, 3385–3411.

Wu, Y.[*] and Yin, G. Cure Rate Quantile Regression Accommodating Both Finite and Infinite Survival Times. *Canadian Journal of Statistics* **45**, 29–43.

Zhang, J., Liu, Y., and **Wu, Y.**[*] Correlation Rank Screening for Ultrahigh-Dimensional Survival Data. *Computational Statistics and Data Analysis* **108**, 121–132.

2016   Zhang, J., Liu, Y., and **Wu, Y.**[*] Exponential Regression for Censored Data With Outliers. *Journal of Statistical Computation and Simulation* **86**, 431–442.

2015   **Wu, Y.** and Yin, G. Conditional Quantile Screening in Ultrahigh-Dimensional Heterogeneous Data. *Biometrika* **102**, 65–76.

Wu, Y., Ma. Y., and Yin, G. Smoothed and Corrected Score Approach to Censored Quantile Regression With Measurement Errors. *Journal of the American Statistical Association* **110**, 1670–1683.

Pan, D., Liu, Y., and **Wu, Y.**[*] Additive Hazards Regression With Random Effects for Clustered Failure Times. *Acta Mathematica Sinica, English Series* **31**, 511–525.

2014   Shi, X., Liu, Y., and **Wu, Y.**[*] Auxiliary Covariate in Additive Hazards Regression for Survival Data. *Journal of Nonparametric Statistics* **26**, 101–113.

Shi, X., Liu, Y., and **Wu, Y.**[*] Continuous Auxiliary Covariate in Additive Hazards Regression for Survival Data. *Journal of Systems Science and Complexity* **27**, 1247–1262.

2013   **Wu, Y.** and Yin, G. (2013). Cure Rate Quantile Regression for Censored Data With a Survival Fraction. *Journal of the American Statistical Association* **108**, 1517–1531.

2011   Zhou, H., Song, R., **Wu, Y.**, and Qin, J. Statistical Inference for a Two-Stage Outcome-Dependent Sampling Design With a Continuous Outcome. *Biometrics* **67**, 194–202.

Zhou, H., **Wu, Y.**, Liu, Y., and Cai, J. Semiparametric Inference for a Two-Stage Outcome-Auxiliary-Dependent Sampling Design With a Continuous Outcome. *Biostatistics* **12**, 521–534.

Liu, Y. and **Wu, Y.**[*] Semiparametric Additive Intensity Model With Frailty for Recurrent Events. *Acta Mathematica Sinica, English Series* **27**, 1831–1842.

2010   Liu, Y., **Wu, Y.**, and Zhou, H. Multivariate Failure Times Regression With a Continuous Auxiliary Covariate. *Journal of Multivariate Analysis* **101**, 679–691.

Liu, Y., **Wu, Y.**, Cai, J., and Zhou, H. Additive-Multiplicative Rates Model for Recurrent Events. *Lifetime Data Analysis* **16**, 353–373.

Collaborative Research

2016   Zhou, C., Jiang, H., Chen, Y., Wu, J., Zhou, J., **Wu, Y.** TCB: A feature transformation method based central behavior for user interest prediction on mobile big data. *International Journal of Distributed Sensor Networks* **12**, no. 10.

Book

2006   Liu, Y. and **Wu, Y.** *Solutions to the Exercises in the Textbook of Probability Theory and Mathematical Statistics* (in Chinese). Hefei: Press of University of Science and Technology of China.

Students

Ph.D. Students

2020   Dechao Lei.

2019   Hao Liu.

2018   Xiaobo Wang.

2017   Jiayu Huang.

Master Students

2020   Jiaojiao Ma; Yunlan Shen; Xunian Wang; Yuwei Xia; Anjun Ye; Meiling Zhang

2019   Fangfang Han; Yinan Kang; Shulin, Liu; Xiaochi Sun.

2018   Xu Chen; Wenxiao Sun; Fei Wu; Qiaoyi Xiang; Chenyu Yang.

2017   Yuanyuan Ba; Chaonan Chen; Lulu Cui; Yao Jiang.

2016   Jing Gao; Weiwei Jia; Huan Peng; Meng Yuan; Yuling Zhang.

Doctoral Dissertation Committees

2018   Chi Kin Lam. Bayesian Computational Methods and Applications. University of Hong Kong.

Guangcai Mao. Nonparametric Statistical Inference in Survival Analysis. Wuhan University.

Professional Services

Referee for: *Acta Mathematicae Applicatae Sinica, English Series; Acta Mathematica Sinica, English Series; Annals of the Institute of Statistical Mathematics; Biometrics; Biometrika; Computational Statistics and Data Analysis; International Journal of Forecasting; Journal of Applied Statistics; Journal of Statistical Computation and Simulation; Journal of Systems Science and Complexity; Journal of the American Statistical Association; Lifetime Data Analysis; Science China-Mathematics; Statistica Sinica; Statistical Paper; Statistics and Its Interface; Statistics and Probability Letter; Statistics in Medicine.*