

# Yuanshan Wu

## Curriculum Vitae

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## Basic Information

Snail Mail School of Statistics and Mathematics  
Zhongnan University of Economics and Law  
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## Research Interests

High-Dimensional Data Analysis  
Quantile Regression  
Survival Analysis

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## Education

2004–2010 Ph.D., Statistics, Wuhan University  
2000–2004 B.S., Mathematics, Xiangfan University

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## Professional Experiences

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

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

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

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

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

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

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

- 2021 Hui Qi.  
2020 Dechao Lei.  
2019 Hao Liu.  
2018 Xiaobo Wang.  
2017 Jiayu Huang.

### Master Students

- 2021 Li Han; Zihan Lin; Wanru Liu; Xin Luo; Xiaoxiao Zhang; Yifei Zhu.  
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*.