

Ruoqing Zhu

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EDUCATION

Ph.D., Biostatistics, 2008 - 2013
The University of North Carolina at Chapel Hill, Chapel Hill, NC

M.A., Statistics, 2006 - 2008
Bowling Green State University, Bowling Green, OH

B.S., Mathematics, 2002 - 2006
Nanjing University, Nanjing, China

B.S., Financial Engineering, 2003 - 2005
Nanjing University, Nanjing, China

PROFESSIONAL EXPERIENCE

Curriculum Content Committee Member and Course Associate Director
Carle Illinois College of Medicine, 2017 -
University of Illinois Urbana-Champaign, Champaign, IL

Affiliate, Carl R. Woese Institute for Genomic Biology, 2016 -
University of Illinois Urbana-Champaign, Champaign, IL

Assistant Professor, Department of Statistics, 2015 -
University of Illinois Urbana-Champaign, Champaign, IL

Postdoctoral Associate, Biostatistics, 2013 - 2015
Yale University, New Haven, CT
Advisors: Dr. Hongyu Zhao and Dr. Shuangge Ma

RESEARCH INTERESTS

Random forests, Survival analysis, Personalized medicine, Sufficient dimension reduction, High-dimensional data, Machine Learning, Cancer genomics/genetics.

PUBLICATIONS

Cui, Y., **Zhu, R.**, Kosorok, M. R. (2017+) “Tree based weighted learning for estimating individualized treatment rules with censored data.” *Electronic Journal of Statistics*, Accepted.

Zhu, R., Zhao, Y., Chen, G., Ma, S., and Zhao H. (2016) “Greedy Outcome Weighted Tree Learning of Optimal Personalized Treatment Rules.” *Biometrics*, Accepted.

Zhu, R., Zhao, Q., Zhao, H., and Ma, S. (2016) “Integrating Multidimensional Omics Data for Cancer Outcome.” *Biostatistics*, Accepted.

Zhu, R., Zeng, D., and Kosorok, M. R. (2015) “Reinforcement Learning Trees.” *Journal of the American Statistical Association*, 110 (512), 1770-1784.

La, E. H., Lich, K. H., Wells, R., Ellis, A. R., Swartz, M. S., **Zhu, R.**, Morrissey, J. P. (2015) “Increasing Access to State Psychiatric Hospital Beds: Exploring Supply-side Solutions.” *Psychiatric Services*, Accepted.

Zhu, R., Zhao, H., and Ma, S. (2014) “Identifying Gene-Environment and Gene-Gene Interactions Using a Progressive Penalization Approach.” *Genetic epidemiology*, 38(4), 353-368.

La, E. H., **Zhu, R.**, Lich, K. H., Ellis, A. R., Swartz, M. S., Kosorok, M. R., and Morrissey, J. P. (2014) “The Effects of State Psychiatric Hospital Waitlist Policies on Length of Stay and Time to Readmission.” *Administration and Policy in Mental Health and Mental Health Services Research*, 1-11.

Zhu, R., and Kosorok, M. R. (2012) “Recursively imputed survival trees.” *Journal of the American Statistical Association*, 107(497), 331-340.

Zhu, L., **Zhu, R.**, and Song, S. (2008) “Diagnostic checking for multivariate regression models,” *Journal of Multivariate Analysis*, 99, 1841-1859.

INVITED TALKS &
PRESENTATIONS

Invited talk / Organizers:

JSM 2018. Vancouver, Canada, Aug 2018

ENAR 2018. Atlanta, Mar 2018

2017 CMStatistics. London, U.K., Dec 2017

2017 ICSA China Conference: with focus on lifetime data. Jilin, China July 2017

IMS-China. Nanning, China, July 2017

2017 ICSA. Chicago, Jun 2017

2017 Annual Statistical Society of Canada meetings. University of Manitoba, Jun 2017

Department of Applied Mathematics. Hong Kong Polytechnic University, Jun 2017

2017 Conference on Lifetime Data Science (LIDA). University of Connecticut, May 2017

Department of Statistics, University of Nebraska-Lincoln, April 2017 (scheduled)

Department of Mathematics and Statistics, Bowling Green State University, Mar 2017

Department of Biostatistics Indiana UniversityPurdue University Indianapolis, Dec 2016

Department of Mathematical and Statistical Sciences, University of Alberta (Oct 2016)

Department of Bioinformatics and Biostatistics, University of Louisville (Sep 2016)

The 4th IMS-APRM, Hong Kong, China (Jun 2016)

School of Statistics and Mathematics, Zhongnan University of Economics and Law, Wuhan, China (Jun 2016)

School of Mathematics and Statistics, Wuhan University, Wuhan, China (Jun 2016)

Center for Statistical Science, Tsinghua University, Beijing, China (May 2016)

Institute of Statistics and Big Data, Renmin University, Beijing, China (May 2016)

Department of Statistics, Kansas State University, Manhattan, KS (Forthcoming, Apr 2016)

IMS-China, Kunming, China (Jul 2015)

Guanghua School of Management, Peking University, Beijing, China (Jun 2015)

Academy of Mathematics and Systems Science, Chinese Academy of Science, Beijing, China (Jun 2015)

ISBS-DIA, Beijing, China (Jun 2015)

Department of Statistics, University of Connecticut (Feb 2015)

JSM, Boston, MA (Aug 2014)

ICSA, Hong Kong, China (Dec 2013)

Department of Statistics and Actuarial Science, The University of Hong Kong (Dec 2013)

Department of Mathematics, The Hong Kong University of Science and Technology (Dec 2013)

North Carolina Translational and Clinical Sciences Institute, Chapel Hill, NC (Aug 2012)

Quintiles, Durham, NC (Mar 2011)

Contributed talk / Poster presentation:

ENAR, Miami, FL (Mar 2011)

JSM, Miami, FL (Aug 2011)

REFEREE SERVICE

Annals of Statistics

Annals of Applied Statistics

Biometrics

Biostatistics

BMC Bioinformatics

F1000Research

Journal of Computational and graphical Statistics

Journal of Landscape and Urban Planning

Journal of Machine Learning Research
Journal of Multivariate Analysis
Journal of Systems Science and Complexity
Journal of the American Statistical Association
Journal of the Royal Statistical Society, Series B
Machine Learning
Scandinavian Journal of Statistics
Statistica Sinica
Statistics and Its Interface
Statistics in Medicine

TEACHING

Instructor

- Statistical Learning (STAT 542) UIUC, Fall 2017
- Methods of Applied Statistics (STAT 420) UIUC, Spring 2017
- Statistical Learning (STAT 542) UIUC, Fall 2016
- Statistics and Probability I (STAT 400/MATH 463) UIUC, Spring 2016
- College Algebra (MATH 112) BGSU, August 2006 - May 2007

Teaching Assistant

- Advanced Probability and Statistical Inference I (BIOS 760) UNC-CH, Fall 2010
- Principles of Statistical Inference (BIOS 760) UNC-CH, Fall 2010
- Advanced Probability and Statistical Inference II (BIOS 761) UNC-CH, Spring 2010
- Student tutoring center BGSU Spring 2008

PROFESSIONAL MEMBERSHIPS

International Biometric Society
American Statistical Association
International Chinese Statistical Association

COMPUTATIONAL SKILLS

R, C/C++, SAS, MATLAB