Ruiwen Zhou, PhD

Business Address: Division of Biostatistics, Washington University in St. Louis, St. Louis, MO, 63110
Email: zhour@wustl.edu
Phone: 573-8233727

EDUCATION

Doctor of Philosophy in Statistics, Aug. 2016-May 2021.
University of Missouri-Columbia, Missouri.
Supervisor: Dr. Jianguo (Tony) Sun.

Master of Arts in Statistics, Aug. 2014-Jun. 2016.
University of Missouri-Columbia, Missouri.

Bachelor of Science in Statistics, Aug. 2010-Jun. 2014.
Southwest Jiaotong University, Sichuan, China.

ACADEMIC APPOINTMENTS:

Postdoctoral Associate: 2022- present, Division of Biostatistics, Washington University in St. Louis (WUSTL) School of Medicine.

Postdoctoral Associate: 2021-2022, Division of Statistics, Duke University.

PROFESSIONAL ACTIVITIES

PUBLICATIONS:

A. Statistical Methodology.

1. **Zhou, R**., Li, H., Sun, J., & Tang, N. (2022). A new approach to estimation of the proportional hazards model based on interval-censored data with missing covariates. *Lifetime Data Analysis*, 28(3), 335-355.
2. **Zhou, R**., & Sun, J. (2022). Estimation of the Proportional Mean Residual Life Model with Internal and Longitudinal Covariates. *Statistics in Biosciences*, 14(3), 550-563.
3. Yang, S., **Zhou, R**., Li, F., & Thomas, L. E. (2023). Propensity score weighting methods for causal subgroup analysis with time-to-event outcomes. *Statistical Methods in Medical Research*. In press. doi.org/10.1177/0962280223118851
4. **Zhou, R.**, Gordon, M., Kass, M., Miller, JP., Lin, M., Peng, Y., Li, F., Liu, L. (2023). Deep Learning Models to Predict Primary Open-Angle Glaucoma. *Stat*. Under minor revision.
5. **Zhou, R**., & Sun, J. (2023). Estimation of the Proportional Mean Residual Life Model with Internal and Longitudinal Covariates. *Biometrical Journal*. Under revision.

6. **Zhou, R.**, Gordon, M., Kass, M., Miller, JP., Lin, M., Peng, Y., Li, F., Liu, L. (2023). Neural Network for Correlated Survival Outcomes Using Frailty Model. Submitted.

B. Collaborative Works.

7. Jiang, M., Hu, L., Nie, Y., **Zhou, R.**, & Lu, C. (2013). The Measurement of Composite Property Based on Bayes Formula. *Advanced Materials Research*, 779, 243-246.
8. Kashou, A. H., LoCoco, S., Shaikh, P. A., Katbamna, B. B., Sehrawat, O., Cooper, D. H., Cuculich PS., Gleva, MJ., **Zhou, R.**, Liu L., ... & May, A. M. (2023). Computerized electrocardiogram data transformation enables effective algorithmic differentiation of wide QRS complex tachycardias. *Annals of Noninvasive Electrocardiology*, 28(1), e13018.
9. Bezamat, M., Saeed, A., McKennan C., Duan, J., **Zhou, R.**, Baxter, D., Liu L., Fuentes L., Marazita, ML, Reis, Steven E. (2023). Gingivitis and atherosclerosis risk are altered by the same metabolic pathways. Submitted.
10. McAvoy, M., **Zhou, R.**, Liu, L., Philip, BA. Connectome Operations For FSL ExEcution (COFFEE): a turnkey pipeline for preprocessing of fMRI data. Submitted.

TEACHING:

- Biomedical Data Mining: Lectures on Recursive Partitioning Models (3 hrs) and Unsupervised Learning (3 hrs). Spring 2022, 2023. Washington University in St. Louis.
- Introductory Statistical Reasoning (3 hrs/week), Spring 2016 – Fall 2020, University of Missouri – Columbia.

WORKSHOP:

- Workshop on Unsupervised Machine Learning Methods in Biomedical Data Mining, Datafest Mizzou 2022, April 2022. Co-teach with Xiyuan Gao.

MENTORING:

With collaborators and supervisors

- 2023-present, Boshen Wang, Master, Washington University in St. Louis.
- 2023-present, Zijian Wang, Master, Washington University in St. Louis.
- 2023-present, Yunchang Xie, Master, Washington University in St. Louis.

DEPARTMENT SEMINARS AND CONFERENCE TALKS:

1. Deep Learning Models to Predict Primary Open-Angle Glaucoma Using Longitudinal Visual Field Measurements, May 2023. 2023 Symposium on Data Science and Statistics. (Invited)

2. Deep Learning Models to Predict Primary Open-Angle Glaucoma Using Longitudinal Visual Field Measurements, May 2023. Symposium for Artificial Intelligence in Medicine, Washington University in St. Louis. (Department Seminar)

3. Neural Network for Correlated Survival Outcomes, April 2023. ENAR 2023 Spring Meeting. (Invited)

4. Neural Network for Clustered Survival Outcomes Using Frailty Model, September 2022. Fall Central AMS Sectional Meeting 2022. (Invited)

5. Joint Analysis of Longitudinal and Failure Time Data under the Proportional Mean Residual Life Model, July 2021. Joint Statistical Meetings.

6. Sieve Maximum Likelihood Estimation of Case II Interval-censored with Missing Covariates under Proportional Hazards Model, July 2019. Joint Statistical Meetings.

INVITED SESSIONS ORGANIZED:

- Deep Learning for Survival Analysis, April 2023. ENAR 2023 Spring Meeting.

REVIEW RESPONSIBILITIES:

Review for Journals: *Journal of the American Statistical Association, Biometrics, Statistics in Medicine, Computational Statistics and Data Analysis, Environmental and Ecological Statistics, Journal of Nonparametric Statistics, Journal of the National Cancer Institute*.

AWARDS

- Travel award to the second annual workshop on Emerging Data Science Methods for Complex Biomedical and Cyber Data in Augusta, GA, March 2020.

PROFESSIONAL MEMBERSHIP

- American Statistical Association (ASA).
- Eastern North American Region International Biometric Society (ENAR).
- International Chinese Statistical Association (ICSA).