

Lili Wang

Department of Biostatistics
School of Public Health, University of Michigan
1415 Washington Heights, Ann Arbor, MI 48109

Phone: (734)604-8695
Email: lilywang@umich.edu
Home: <https://lilywang.info>

Education

† *Indicates expected*

- 2016–2020 † Ph.D., Biostatistics, University of Michigan (GPA: 4.0/4.0)
Thesis Title: Flexible Methods for the Analysis of Clustered Event Data in Observational Studies
Supervisors: Dr. Douglas E. Schaubel and Dr. Peter Xuekun Song
Research topics: recurrent events, frailty models, causal inference, and control charts
- 2014–2016 M.S., Biostatistics, University of Michigan (GPA: 4.0/4.0)
- 2011–2014 M.S., Molecular, Cellular, and Developmental Biology, University of Michigan
Research topics: directed evolution and engineering of small proteins by introducing random mutations and biased selections
- 2007–2011 B.S., Applied Biological Science, Zhejiang University (GPA: 3.9/4.0)

Appointments

- 2015–Present Research Assistant, Kidney Epidemiology and Cost Center (UM-KECC), University of Michigan
- 2015–2015 Instructor, Biostatistics, University of Michigan
- 2013–2014 Teaching assistant, Molecular, Cellular, and Developmental Biology, University of Michigan
- 2012–2013 Research Assistant, Molecular, Cellular, and Developmental Biology, University of Michigan
- 2010–2010 Summer researcher, Genetics and Biology, University of California, Davis

Teaching

2015	BIOSTAT 605, Intro SAS Programming	University of Michigan
2014	BIO 172, Intro Biology (Discussion)	University of Michigan
2014	BIO 173, Intro Biology (Lab)	University of Michigan

Selected Honours and Awards

2019	Distinguished Student Paper Award, International Biometric Society Eastern North American Region (ENAR)	
2015	Best First-year Master Students in Biostatistics, University of Michigan	
2011	Graduate Student Fellowship from the University of Michigan	
2011	Outstanding Graduates of Zhejiang Province, China	
2011	Outstanding Graduates of Zhejiang University, China	
2009	National Scholarship from the Chinese Ministries of Education	
2008	The First Prize Scholarship from Zhejiang University, China	

Manuscripts

Published or In-press

- [1] **Wang, L.**, He, K., Schaubel, D.E. Penalized survival models for the analysis of alternating recurrent event data. *Biometrics*, in press. <https://www.ncbi.nlm.nih.gov/pubmed/31535737>
**This paper has won the International Biometric Society Eastern North American Region's (ENAR) Distinguished Student Paper Awards for the 2019 ENAR Spring Meeting in Philadelphia, PA, USA.*
- [2] Shen, X., Wang, B., Li, K., **Wang, L.**, Zhao, X., Xue, F., Shi, R. and Zheng, J. (2018). MicroRNA Signatures in Diagnosis and prognosis of cutaneous T-Cell Lymphoma. *Journal of Investigative Dermatology*, 138(9), 2024-2032.
- [3] Horowitz, S., Salmon, L., Koldewey, P., Ahlstrom, L.S., Martin, R., Quan, S., Afonine, P.V., van den Bedem, H., **Wang, L.**, Xu, Q. and Trievel, R.C. (2016). Visualizing chaperone-assisted protein folding. *Nature Structural & Molecular Biology*, 23(7), 691.
- [4] Quan, S., **Wang, L.**, Petrotchenko, E.V., Makepeace, K.A., Horowitz, S., Yang, J., Zhang, Y., Borchers, C.H. and Bardwell, J.C. (2014). Super Spy variants implicate flexibility in chaperone action. *Elife*, 3, e01584.
- [5] Marimuthu, M.P., Jolivet, S., Ravi, M., Pereira, L., Davda, J.N., Cromer, L., **Wang, L.**, Nogué, F., Chan, S.W., Siddiqi, I. and Mercier, R. (2011). Synthetic clonal reproduction through seeds. *Science*, 331(6019), 876-876.

In Preparation

- [6] **Wang, L.**, Schaubel, D.E. An estimating equation approach for recurrent event analysis via semi-parametric frailty Models. *In preparation*
- [7] **Wang, L.**, Luo, X. ,Zheng, C. A simulation-free group sequential design with max-combo tests in the presence of non-proportional hazards *arXiv* <https://arxiv.org/abs/1911.05684>

Poster

- [1] **Wang, L** (2018). Armed with Head-start: an Improved Risk-Adjusted O-E CUSUM with Monitoring Bands for Mortality Outcomes. Poster session presented at 2018 Michigan Student Symposium for Interdisciplinary Statistical Sciences (MSSISS), University of Michigan, Ann Arbor, US.
- [2] **Wang, L.**& Tang, A. (2016). Depression Effect on Infant Outcomes. Poster session for the Analysis Of Biostatistical Investigations course (BIOSTAT699). *Selected as one of the top 3 posters in the session.*

Oral Presentations

- [1] Penalized Survival Models for the Analysis of Alternating Recurrent Event Data. Invited session, The 2nd Conference on Lifetime Data Science (LiDS), Pittsburgh, United States, May 2019.
- [2] Penalized Survival Models for the Analysis of Alternating Recurrent Event Data. Contributed session, International Biometric Society Eastern North American Region's (ENAR), Philadelphia, United States, March 2019.
- [3] Penalized Survival Models for the Analysis of Alternating Recurrent Event Data. Contributed session, Joint Statistical Meetings (JSM) by American Statistical Association (ASA), Vancouver, Canada, July 2018.

Software

- [1] **Wang, L.** R-package BivPPL: Flexible estimation of alternating recurrent events using penalized partial likelihoods (PPL). <https://github.com/lilywang1988/BivPPL>
- [2] **Wang, L.** R-package IAfrac: Sample size and information fraction calculation for weighted log-rank tests <https://github.com/lilywang1988/IAfrac>.
- [3] **Wang, L.** R-package MortCUSUM: O-E Cumulative-Sum (CUSUM) method for real-time monitoring of the mortality outcomes (under development).