

Wenjie Wang

Eli Lilly and Company
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Education

University of Connecticut (UConn)

Ph.D. in Statistics
Advisors: Dr. Kun Chen & Dr. Jun Yan

Storrs, CT

August 2014 – August 2019

Tongji University

B.S. in Statistics

Shanghai, China

September 2010 – July 2014

Industry Experience

Research Scientist

Eli Lilly and Company

- Statistical analysis for recurrent event data
- Dynamic treatment regimes for patients with diabetes
- Innovative algorithm development for connected care and insulin programs

September, 2019 – Present

Indianapolis, Indiana

Research Experience

Research Assistant

UConn Health Center for Population Health

- Data cleaning and data integration of Connecticut All-Payer Claims Databases (APCD) and Electronic Health Records (EHR) from Connecticut Children's Medical Center (CCMC)
- A suicide prevention project by survival analysis using the APCD and CCMC data
- Website development and interactive data visualization for HealthQualityCT scorecard project using Hugo and R Shiny
- Usage of imaging procedures for dental treatment over time
- Comorbidity measures and thirty days' readmission rate of joint replacement using Hospital Inpatient Discharge Data (HIDD)

January 2016 – July 2019

Farmington, CT

Graduate Assistant

UConn Data Science Lab

- Set up project templates in R Markdown with HTML widgets and Shiny Applications
- Sample projects on survival analysis with deep neural network model

January 2017 – May 2017

Storrs, CT

Teaching Experience

Teaching Assistant

Department of Statistics, UConn

- Led weekly discussion sessions to reinforce material covered in Elementary Concepts of Statistics course

August 2015 – January 2016

Storrs, CT

Publications

Wang, W., Aseltine, R., Chen, K., and Yan, J. (2020). Integrative Survival Analysis with Uncertain Event Times in Application to a Suicide Risk Study. *The Annals of Applied Statistics*, 14(1), 51–73.

Aseltine, R., **Wang, W.**, Benthien, R., Katz, M., Wagner, C., Yan, J., and Lewis, C. (2019). Reductions in Race and Ethnic Disparities in Hospital Readmissions following Total Joint Arthroplasty from 2005–2015. *In Press at The Journal of Bone & Joint Surgery*.

Caplan, D. J., Li, Y., **Wang, W.**, Kang, S., Marchini, L., Cowen, H. J., and Yan, J. (2018). Dental Restoration Longevity among Geriatric and Special Needs Patients. *JDR Clinical & Translational Research*, DOI: 10.1177/2380084418799083.

Wang, W., Chen, M. H., Chiou, S. H., Lai, H. C., Wang, X., Yan, J., and Zhang, Z. (2016). Onset of persistent pseudomonas aeruginosa infection in children with cystic fibrosis with interval censored data. *BMC Medical Research Methodology*, 16(1), 122.

Work in Progress

Wang, W., Luo, C., Chen, K., Yan, J.: Cox Cure Model with Uncertain Endpoints.

Prates, M., Wang, W., and Yan, J.: Fusing R and BUGS and beyond.

Wang, W., Fu, H., and Yan, J.: Flexible regression modeling for recurrent events with R package **reda**

Software Packages

Wang, W., Chen, K., Yan, J. (2020). **intsurv**: Integrative Survival Modeling. R package version 0.2.2. <https://CRAN.R-project.org/package=intsurv>.

Wang, W., Fu, H. (2020). **reda**: Recurrent Event Data Analysis. R package version 0.5.2. <https://CRAN.R-project.org/package=reda>

Wang, W., Yan, J. (2020). **splines2**: Regression Spline Functions and Classes. R package version 0.3.1. <https://CRAN.R-project.org/package=splines2>.

Wang, W., Li, Y., Yan, J. (2019). **touch**: Tools of Utilization and Cost in Healthcare. R package version 0.1.5. <https://CRAN.R-project.org/package=touch>.

Wang, W., Chen, M.-H., Wang, X., and Yan, J. (2019). **dynsurv**: Dynamic Models for Survival Data. R package version 0.3.7. <https://CRAN.R-project.org/package=dynsurv>

Talks

Integrative Survival Analysis with Uncertain Event Times in Application to a Suicide Risk Study. International Conference on Advances in Interdisciplinary Statistics and Combinatorics (AISC), The University of North Carolina at Greensboro, Greensboro, NC. October 2018.

Integrative Survival Analysis with Uncertain Event Times in Application to a Suicide Risk Study. Eastern North American Region (ENAR), Atlanta, GA. March 2018.

Workshops

Introduction to R programming (Part I & Part II). Society of Industrial and Applied Mathematics (SIAM) Graduate Chapter, University of Connecticut, Storrs, CT. January 2018 & April 2018. <https://wwenjie.org/2018-01-19-siam/> & <https://wwenjie.org/2018-04-06-siam/>.

Posters

Extended Cox Model by ECM Algorithm for Uncertain Survival Records Due to Imperfect Data Integration. 31st New England Statistics Symposium, University of Connecticut, Storrs, CT. April 2017.

Onset of persistent pseudomonas aeruginosa infection in children with cystic fibrosis with interval censored data. 29th New England Statistics Symposium, University of Connecticut, Storrs, CT. April 2015.

Service

IT Volunteer of New England Statistical Society (NESS) *April 2017 – July 2019*

- Assisting the development and maintenance of the website of NESS at <https://nestat.org>
- Co-developed of the symposium website of NESS 2018

Honors & Awards

IBM T.J. Watson **Student Paper Award** in New England Statistics Symposium (NESS) *2017*

Department **Service Award**, Department of Statistics, UConn *2017*

Pre-Doctoral Dissertation **Fellowship**, Department of Statistics, UConn *2015*

Outstanding Graduate Awards of Tongji University *2014*

Computer Skills

Languages: R, C/C++, Python, Julia, SAS, MATLAB, HTML/CSS, JavaScript, and SQL

Application: Emacs, Git, L^AT_EX, Docker, Hugo, Jekyll

Operating Systems: Arch Linux, Debian, and Ubuntu