

# 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

## Positions

**Senior Research Scientist**

Eli Lilly and Company

October, 2022 – Present

Indianapolis, Indiana

**Research Scientist**

Eli Lilly and Company

September, 2019 – September, 2022

Indianapolis, Indiana

**Analyst Intern**

After, Inc

June, 2017 – January, 2018

Norwalk, CT

**Research Assistant**

UConn Health Center for Population Health

January 2016 – July 2019

Farmington, CT

**Graduate Assistant**

UConn Data Science Lab

January 2017 – May 2017

Storrs, CT

**Teaching Assistant**

Department of Statistics, UConn

August 2015 – January 2016

Storrs, CT

## Publications

**Wang, W.**, Zhang, X. & Fu, H. (2024). Personalized Medicine with Multiple Treatments. In *Precision Health: Theory, Methods, and Applications*. Springer Nature. In Press.

**Wang, W.**, Luo, C., Aseltine, R. H., Wang, F., Yan, J., & Chen, K. (2023). Survival Modeling of Suicide Risk with Rare and Uncertain Diagnoses. *Statistics in Biosciences*, 1–27.

Yan, D., Sun, Z., Fang, J., Cao, S., **Wang, W.**, Chang, X., ... & Liu, Y. (2023). scRAA: The Development of A Robust and Automatic Annotation Procedure for Single-Cell RNA Sequencing Data. *Journal of Biopharmaceutical Statistics*, 1–14.

Edwards, S., He, X., **Wang, W.**, Poon, J. L., Meadows, E., Price, D., ... & Polonsky, W. (2022). Use of connected pen as a diagnostic tool to evaluate missed bolus dosing behavior in people with type 1 and type 2 diabetes. *Diabetes Technology & Therapeutics*, 24(1), 61–66.

**Wang, W.** and Yan, J. (2021). Shape-Restricted Regression Splines with R Package **splines2**. *Journal of Data Science*, 19(3), 498–517.

**Wang, W.**, Aseltine, R., Chen, K., & 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., & Lewis, C. (2019). Reductions in Race and Ethnic Disparities in Hospital Readmissions following Total Joint Arthroplasty from 2005–2015. *The Journal of Bone & Joint Surgery*, 101(22), 2044–2050.

Caplan, D. J., Li, Y., **Wang, W.**, Kang, S., Marchini, L., Cowen, H. J., & Yan, J. (2019). Dental Restoration Longevity among Geriatric and Special Needs Patient. *JDR Clinical & Translational Research*, 4(1), 41–48.

**Wang, W.**, Chen, M. H., Chiou, S. H., Lai, H. C., Wang, X., Yan, J., & Zhang, Z. (2016). Onset of persistent pseudomonas aeruginosa infection in children with cystic fibrosis with interval censored data. *BMC Medical Research Methodology*, 16(1), 1–10.

## Software Packages (R Packages on CRAN)

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- Wang, W.**, & Yan, J. (2023). **splines2**: Regression Spline Functions and Classes. R package v0.5.1.
- Wang, W.** (2023). **jds.rmd**: R Markdown Templates for Journal of Data Science. R package v0.3.3.
- Wang, W.** (2023). **formatBibtex**: Format BibTeX Entries and Files. R package v0.1.0.
- Wang, W.** (2022). **abclass**: Angle-Based Large-Margin Classifiers. R package v0.4.0.
- Jiang, Y., Ting, M.-L., Yan, J., & **Wang, W.** (2022). **clusrank**: Wilcoxon Rank Tests for Clustered Data. R package v1.0-3.
- Chen, K., **Wang, W.**, & Yan, J. (2022). **rrpack**: Reduced-Rank Regression. R package v0.1-13.
- Wang, W.**, Chen, K., & Yan, J. (2021). **intsurv**: Integrative Survival Modeling. R package v0.2.2.
- Wang, W.**, Fu, H., & Yan, J. (2022). **reda**: Recurrent Event Data Analysis. R package v0.5.4.
- Wang, W.**, Chen, M.-H., Wang, X., & Yan, J. (2023). **dynsurv**: Dynamic Models for Survival Data. R package v0.4.5.
- Wang, W.**, Li, Y., & Yan, J. (2022). **touch**: Tools of Utilization and Cost in Healthcare. R package v0.1.6.

## Honors & Awards

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Lilly Innovator Award Top 100	<i>2022 &amp; 2023</i>
IBM T.J. Watson Student Paper Award in New England Statistics Symposium (NESS)	<i>2017</i>
Department Service Award, Department of Statistics, UConn	<i>2017</i>
Pre-Doctoral Dissertation Fellowship, Department of Statistics, UConn	<i>2015</i>
Outstanding Graduate Awards of Tongji University	<i>2014</i>

## Professional Memberships

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American Statistical Association (ASA)  
Institute of Mathematical Statistics (IMS)  
New England Statistical Society (NESS)  
International Chinese Statistical Association (ICSA)

## Journal Reviews

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BMC Medical Research Methodology; Japanese Journal of Statistics and Data Science; Journal of Biopharmaceutical Statistics; Journal of Data Science; R Journal; Scientific Reports.

## Services

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<b>Associate Editor</b> , R Journal	<i>January 2024 – Present</i>
<b>Communication Officer</b> Lifetime Data Science Section, ASA	<i>January 2021 – Present</i>
<b>IT Volunteer</b> , New England Statistical Society (NESS)	<i>April 2017 – July 2019</i>
<b>Student Volunteer</b> , Connecticut Data Science Lab	<i>January 2017 – July 2019</i>

## Invited Talks

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Suicide Risk Modeling with Uncertain Diagnostic Records. New England Statistics Symposium, University of Connecticut, Storrs, CT. May 2022.

Integrative Survival Analysis with Uncertain Event Times in Application to a Suicide Risk Study. International Conference on Advances in Interdisciplinary Statistics and Combinatorics (AISC), 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.

## Invited Workshops

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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.

## Posters

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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.