

# Wenjie Wang

Department of Statistics  
University of Connecticut  
Storrs, CT 06269-4120

(860) 593-5114  
wenjie.2.wang@uconn.edu  
<https://wenjie-stat.me>

## Education

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### University of Connecticut (UConn)

Storrs, CT

Ph.D. in Statistics

*(Expected) August 2019*

Advisors: Dr. Kun Chen & Dr. Jun Yan

### Tongji University

Shanghai, China

B.S. in Statistics

*September 2010 – July 2014*

## Research Experience

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### Research Assistant

*January 2016 – Present*

UConn Health Center for Population Health

Farmington, CT

- Working on data cleaning and data integration of Connecticut All-Payer Claims Databases (APCD) and Electronic Health Records (EHR) from Connecticut Children's Medical Center (CCMC)
- Working on a suicide prevention project by survival analysis using the APCD and CCMC data
- Working on website development and interactive data visualization for HealthQualityCT scorecard project using Hugo and R Shiny at <https://healthqualityct.org>
- Worked on usage of imaging procedures for dental treatment over time
- Worked on comorbidity measures and thirty days' readmission rate of joint replacement using Hospital Inpatient Discharge Data (HIDD)

### Graduate Assistant

*January 2017 – May 2017*

UConn Data Science Lab

Storrs, CT

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

## Teaching Experience

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### Teaching Assistant

*August 2015 – January 2016*

Department of Statistics, UConn

Storrs, CT

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

## Industry Experience

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### Analyst Intern

*June, 2017 – January, 2018*

After, Inc

Norwalk, CT

- Worked on statistical modeling for warranty analytics
- Worked on interactive data visualization with R Shiny

### Analyst Intern

*February, 2014 – July, 2014*

Department of Measurement Science (MSci), A.C. Nielsen

Shanghai, China

- Worked on SAS programing, assisted sample design and universe estimation, etc.

## Publications & Manuscripts

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**Wang, W.**, Aseltine, R., Chen, K., and Yan, J. (2018+). Integrative Survival Analysis with Uncertain Event Times in Application to a Suicide Risk Study. *Under review at The Annals of Applied Statistics.*

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

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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

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Wang, W., Yan, J. (2018). splines2: Regression Spline Functions and Classes. R package version 0.2.8.

<https://CRAN.R-project.org/package=splines2>.

Wang, W., Li, Y., Yan, J. (2018). touch: Tools of Utilization and Cost in Healthcare. R package version 0.1-4.

<https://CRAN.R-project.org/package=touch>.

Wang, W., Fu, H. (2017). reda: Recurrent Event Data Analysis. R package version 0.4.1.

<https://CRAN.R-project.org/package=reda>

Wang, X., Chen, M.-H., Wang, W., and Yan, J. (2017). dynsurv: Dynamic Models for Survival Data. R

package version 0.3-6. <https://CRAN.R-project.org/package=dynsurv>

## Talks

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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

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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.

<https://wenjie-stat.me/2018-01-19-siam/> & <https://wenjie-stat.me/2018-04-06-siam/>.

## 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.

## Service

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**IT Volunteer** of New England Statistical Society (NESS)

*April 2017 – Present*

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

**President** of Student Union

*July 2012 – June 2013*

**School of Mathematical Sciences**

Tongji University

## Honors & Awards

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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

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

**Application:** Emacs, Git, L<sup>A</sup>T<sub>E</sub>X, Docker, Hugo, Jekyll

**Operating Systems:** Arch Linux, Debian, and Ubuntu