

# Lu(Laura) Wang | Curriculum Vitae

Assistant Professor, Mathematics Department, Western New England University

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## Degrees

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- **Ph.D., Statistics**  
*Dept of Statistics, University of South Carolina, Columbia, SC, United States* 2014–2020  
PhD Dissertation: Semiparametric Regression Analysis of Arbitrarily Censored Data and Panel Count Data  
Advisor: Lianming Wang
- **Bachelor of Medicine, Clinical Laboratory Science**  
*West China School of Medicine, Sichuan University, Chengdu, P.R China* 2008–2013

## Experience

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- **Assistant Professor of Statistics** **Western New England University**  
August 2020 - Present
- **Graduate Teaching Assistant** **University of South Carolina**  
2014–2020
- **Internship** **GCP Centre (Chengdu)**  
*Project: LC-MS/MS Method for Analyzing Glimepiride in Human Plasma* 2013
- **Internship** **Geriatrics Medical Centre**  
*Maintaining health records, documenting information* 2013
- **Internship** **West China Hospital**  
*Department of Laboratory Medicine: laboratory tasks* 2012
- **Trainee** **West China Hospital**  
*Division of Clinical Molecular Diagnostics: paternity testing* 2009

## Teaching Experience

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- **QR 112: Quantitative Reasoning for Business** **WNEU**  
*Spring 2023*
- **Hon 192: Introductory Statistics** **WNEU**  
*Spring 2023*
- **MATH 372: Probability** **WNEU**  
*Spring 2022 & Spring 2023*
- **MATH 441: Data Visualization and Technique** **WNEU**  
*Spring 2022*
- **MATH 121: Introductory Probability and Statistics** **WNEU**  
*Fall 2021 & Fall 2022*

<ul style="list-style-type: none"> <li>○ <b>MATH 221: Introductory Probability and Statistics II</b> <i>Fall 2021</i></li> </ul>	WNEU
<ul style="list-style-type: none"> <li>○ <b>MATH 451 &amp; 452: Senior Project I &amp; II</b> <i>Fall 2021 &amp; Spring 2022</i></li> </ul>	WNEU
<ul style="list-style-type: none"> <li>○ <b>MATH 331: Computation in Statistics</b> <i>Spring 2021</i></li> </ul>	WNEU
<ul style="list-style-type: none"> <li>○ <b>MATH 383: Mathematical Statistics</b> <i>Fall 2020 &amp; Fall 2022</i></li> </ul>	WNEU
<ul style="list-style-type: none"> <li>○ <b>MATH 120: Introductory Statistics for the Arts &amp; Sciences</b> <i>Fall 2020 &amp; 2021 &amp; 2022 &amp; Spring 2023</i></li> </ul>	WNEU
<ul style="list-style-type: none"> <li>○ <b>STAT 509: Statistics for Engineers</b> <i>Fall 2018 &amp; Summer 2019</i></li> </ul>	UofSC
<ul style="list-style-type: none"> <li>○ <b>STAT 201: Elementary Statistics</b> <i>Springs 2018,2020 &amp; Fall 2019</i></li> </ul>	UofSC

## Research Interests

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Semi-Parametric Modeling, Bayesian Modeling and Computing, Complex Censored Data, Panel Count Data, Survival Analysis, Longitudinal Data, Invertible Neural Network, and Reinforcement Learning.

## Refereed Journal Articles/Book Chapters

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- L. Wang and L. Wang (2020). "EM algorithm for analyzing right-censored data under the semiparametric proportional odds model". Communications in Statistics –Theory and Methods.(<https://doi.org/10.1080/03610926.2020.1837879> )
- L. Wang and L. Wang (2021). "Regression analysis of arbitrarily censored survival data under the proportional odds model". Statistics in Medicine.(<https://doi.org/10.1002/sim.8994>)
- L. Wang, L. Wang, and X. Lin (2021) "Bayesian inferences for panel count data and interval-censored data with nonparametric modeling of the baseline functions". A book chapter in book "Bayesian Inference and Computation in Reliability and Survival Analysis" Edited by Professors Yuhlong Lio, Ding-Geng (Din) Chen, Hon Keung Tony Ng and TzongRu Tsai.
- Lu Wang, Chunling Wang, Xiaoyan Lin and Lianming Wang. "Regression Analysis of Panel Count Data Accounting for Within-Subject Correlation with Nonparametric Frailty Distribution". (to be re-submitted)
- Lu Wang and Lianming Wang. "An EM algorithm for arbitrarily censored and left truncated data under the proportional odds model" (on going)
- Lu Wang, Jiwei Zhao and Yanyuan Ma. '*Semi-parametric Modeling in Meta-analysis*' (on going)
- Minsuk Shin, Lu Wang, and Jun Liu (2020). "A novel MCMC sampling method based on invertible neural network".(<https://arxiv.org/abs/2006.00767> unpublished work)

## Statistics Journal Reviewer

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- BMJ Open

- PeerJ
- Statistical Papers
- Journal of Applied Statistics

## Department/University Service

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- A & S Curriculum Committee, Spring 2022-Present
- JEDI Committee, December 2022 - Present
- Assessment Committee in the Department of Mathematics, Spring 2023 - Present
- Actuarial Science Committee in the Department of Mathematics, Fall 2021
- Developed the Data Science and Statistics major under the lead of Dr. Marcel Cacea, 2022

## Presentations

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- "Semiparametric Bayes Proportional Odds Models for arbitrarily censored failure time data", Joint Statistical Meetings, Baltimore, 2017
- "Fitting Semi-parametric Proportional Odds Models to Arbitrarily Censored Data with EM Algorithm", South Carolina Chapter of the American Statistical Association, 2018
- "Bayesian inferences for panel count data and interval-censored data with nonparametric modeling of the baseline functions", ICSA 2020 Applied Statistics Symposium.

## Statistical Packages

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- regPO: Regression analysis of arbitrarily censored data under the proportional odds models (available on: <https://github.com/luwstat/regPO>)
- regPOr: An expectation-maximization (EM) algorithm for analyzing right-censored survival data. (available on: <https://github.com/luwstat/regPOr>)

## Technical and Personal skills

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- **Programming Languages:** R, Python, SAS, LaTeX.
- **Industry Software Skills:** Most MS Office products including Excel, PowerPoint, and Word.