Xiaorui (Jeremy) Zhu

Google Scholar		http://homepages.uc.edu/ zhuxr/	zhuxr@mail.uc.edu
		Education	
Ph.D.	Business Analytics	University of Cincinnati	2016-2021
M.Sc.	Finance	The Pennsylvania State University	2014-2015
M.Sc.	Applied Statistics	Beijing University of Technology	2012-2014
B.S.	Statistics	Capital University of Economics and Business	2007-2011
		Research	

Research Interests:

- high dimensional statistical inference; machine learning; discrete data analysis;
- o asset-pricing; default prediction in finance;
- o creativity; online learning.

Publications:

- Jablokow, K. W., Zhu, X., & Matson, J. V. (2020). Exploring the diversity of creative prototyping in
 a global online learning environment. International Journal of Design Creativity and Innovation, 8(2),
 102-124.
- **Zhu, X.,** & Xie, L. (2016). Adaptive quasi-maximum likelihood estimation of GARCH models with Student'st likelihood. *Communication in Statistics:Theory and Methods*, 45(20), 6102-6111.
- Jablokow, K. W., Zhu, X., Matson, J. V., & Kakde, A. N. (2016, June). Stimulating creativity in online learning environments through intelligent fast failure. In ASEE Annual Conference and Exposition, Conference Proceedings (Vol. 2016).

Accepted & Under Review Papers:

- \circ Liu, D., **Zhu, X.**, & Greenwell, B. (2020), "A New Goodness-of-fit Measure for Probit Models: Surrogate R^2 " (Revise and resubmit to *British Journal of Mathematical and Statistical Psychology*).
- o **Zhu, X.**, Qin, Y., & Wang, P. (2020), "Sparsified Simultaneous Confidence Intervals for High-Dimensional Linear Models" (Under review).
- o Li, S., **Zhu, X.**, Yu, Y., Tian, S. (2020), "Corporate Default Probability: A Discrete Single-Index Hazard Model Approach" (Under review).
- o Li, S., **Zhu, X.**, Chen, Y., Liu, D.(2020) PAsso: an R Package for Assessing Partial Association between Ordinal Variables (Accepted by *The R Journal*.).

Working Paper:

- o Zhu, X., Xing, Y. & Yu, Y. (2021), "Zooming in Distress Anomaly: Bankruptcy vs. Other Failures".
- Zhu, X., Li, S., Srinivasan, K. & Lash, M. (2021), "Predicting the Stock Market during the COVID-19 Pandemic".

Research In Progress:

- "Measuring Goodness-of-fit for Bankruptcy Prediction and its Application to U.S. and Polish Data", with Dungang Liu.
- "A General Approach for Measuring and Visualizing Uncertainty of Feature Selection, with Sheng Ren, Emily L. Kang, and Peng Wang.
- "Robust Estimation with Cell-Wise Contamination or Missing Values", with Yichen Qin.

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Presentations

- $\circ\,$ "Surrogate R^2 for Probit Models", INFORMS Annual Meeting, Virtual, Nov 2020.
- "Demystifying Differences between Bankruptcy and Other Failures in Terms of Major Drivers and Risk-Return Relationship", Session Chair, INFORMS Annual Meeting, Seattle, WA, Oct 2019.
- "Conducting Inference of Coefficients and Model for High-Dimensional Sparse Linear Model", IN-FORMS 3rd Workshop on Data Science (Peer-Reviewed), Seattle, WA, Oct 2019.
- "Simultaneous Confidence Intervals Using Entire Solution Paths", The Fourth Workshop on Higher-Order Asymptotics and Post-Selection Inference (WHOA-PSI), St. Louis, MO, August 2019.
- o "Simultaneous Confidence Intervals Using Entire Solution Paths", The Joint Statistical Meetings (JSM), Denver, CO, July 2019.
- "What drivers Bankruptcy and Other Failures? An Analysis with Variable Selection", INFORMS Annual Meeting, Data Science Workshop(Peer-Reviewed), Phoenix, AZ, November 2018.
- "Additive Logistic Model with Stochastic Macroeconomic Covariates for Corporate Bankruptcy Prediction". The Joint Statistical Meetings (JSM), Baltimore, MD, August 2017.
- o "Amplifying Creativity in Big Data Era: Relationship between creativity and failure". The 7th International Forum on Statistics, Beijing, China, 2016.

Teaching

Independent Instructor:

- o BANA 7025 Data Wrangling (Graduate Level, Credit Hours: 2)
 - Fall 2021 Class size: 58.
- o BANA 7046 Data Mining I (Graduate Level, Credit Hours: 3)
 - Spring 2021 Class size: 29.
- o BANA 7050 Forecasting and Time Series Methods (Graduate Level, Credit Hours: 3)
 - Spring 2020 Class size: 29.
- o BANA 4090 Forecasting and Risk Analysis (Credit Hours: 3)
 - Fall 2019 Class size: 54.
- o BANA 2081 Business Analytics I (Credit Hours: 3)
 - Spring 2018 Class size: 36;
 - Fall 2018 Class size: 33;
 - Fall 2021 Class size: 60.

Teaching Assistant:

Statistical Modeling, Statistics Method (I & II), Business Analytics (I & II), Data Mining (Lab Instructor), Statistical Computing.

Awards		
o 2021 Comer-Reynolds Memorial Award	American Statistical Association	2021
o GSG Research Fellowship	University Award	2019
o Chancellor's Scholarship	University Award	2014
o CFA Scholarship		2014
o Excellent Thesis	University Award	2013
 Several Excellent Students Awards 	University Award	2007-2011
 Second Class Prize of Math Competition 	University Award	2009
 National Scholarship for Encouragement 	National Award	2008
o 2008 Beijing Olympic Game Outstanding Volunteer	National Award	2008
 Second Class Prize of National Olympiad in Informatics 	National Award	2006

Working Experience

O I	
Adjunct Instructor	2020-2021
University of Cincinnati, OH	
Supervisor: Dr. Craig Froehle	
Research Assistant	2014-2015
The Pennsylvania State University, PA	
Supervisor: Dr. Kathryn W. Jablokow	
Research Assistant	2012-2013
Beijing University of Technology, Beijing	
Supervisor: Professor Li Xie	
Statistician	2011-2012
MS Health Inc., Beijing	
Professional Service	
Session Chair, "Data Science and Machine Learning: Methods and Applications"	10/2019
NFORMS Annual Meeting 2019	
Referee, International Journal of Biostatistics, Journal of Data Science, Central European Jour-	
nal of Economic Modelling and Econometrics, Managerial Finance, Applied Economics	
President, Student Chapter of INFORMS at University of Cincinnati	07/2019 - Present
President, BearStats Student Statistics Club, ASA Student Chapter at University of Cincin-	
nesident, beurstuis student statistics club, 1311 student chapter at ambersity by cinem- 1ati	00/ 2020 - 1 Tesent
Treasure, The Lindner Graduate Students Association (LGSA), University of Cincinnati	04/2017 - 04/2018
Vice-President/Fundraiser/Director of Liaison Department Student Union, the Capital University of Economy and Business	07/2009-07/201
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Volunteer 2008 Beijing Olympic Games	06/2008-10/200