

Xiaorui (Jeremy) Zhu

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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;
- asset-pricing; default prediction in finance;
- creativity

Working Paper:

- **Zhu, X.**, Qin, Y., & Wang, P. (2020), Sparsified Simultaneous Confidence Intervals and Model Confidence Sets for High-Dimensional Linear Models (Under review).
- Liu, D., **Zhu, X.**, & Greenwell, B. (2020) Surrogate R^2 for Probit Models with a Discrete Response (Under review).
- Li, S., **Zhu, X.**, Chen, Y., Liu, D.(2020) PAsso: an R Package for Assessing Partial Association between Ordinal Variables.
- Li, S., **Zhu, X.**, Yu, Y., Tian, S.(2020) Corporate Default Probability: A Discrete Single-Index Hazard Model Approach.

Research In Progress:

- “Zooming in Distress Anomaly: Bankruptcy vs. Other Failures”, with Yuhang Xing, Yan Yu.
- “Surrogate Residual of Multinomial Logistic Regression with Application to Discrete Choice Modeling”, 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.
- “Additive Logistic Model with Stochastic Macroeconomic Covariates for Corporate Bankruptcy Prediction”, with Yan Yu, Shaonan Tian.

Publications:

- Jablolkow, 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's t likelihood](#). *Communication in Statistics: Theory and Methods*, 45(20), 6102-6111.
- Jablolkow, 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).

PRESENTATIONS

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- “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”, INFORMS 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.
 - “Simultaneous Confidence Intervals Using Entire Solution Paths”, The Joint Statistical Meetings (JSM), Denver, CO, July 2019.
 - “What drives 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.
 - "Amplifying Creativity in Big Data Era: Relationship between creativity and failure". The 7th International Forum on Statistics, Beijing, China, 2016.

TEACHING

Independent Instructor:

- **BANA 7050 - Forecasting and Time Series Methods (Graduate Level, Credit Hours: 3)**
- Spring 2020 Class size: 29;
- **BANA 4090 - Forecasting and Risk Analysis (Credit Hours: 3)**
- Fall 2019 Class size: 54;
- **BANA 2081 - Business Analytics I (Credit Hours: 3)**
- Spring 2018 Class size: 36;
- Fall 2018 Class size: 33.

Teaching Assistant:

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

AWARDS

○ GSG Research Fellowship	<i>University Award</i>	2019
○ Chancellor's Scholarship	<i>University Award</i>	2014
○ CFA Scholarship		2014
○ Excellent Thesis	<i>University Award</i>	2013
○ Several Excellent Students Awards	<i>University Award</i>	2007-2011
○ Second Class Prize of Math Competition	<i>University Award</i>	2009
○ National Scholarship for Encouragement	<i>National Award</i>	2008
○ 2008 Beijing Olympic Game Outstanding Volunteer	<i>National Award</i>	2008
○ Second Class Prize of National Olympiad in Informatics	<i>National Award</i>	2006

WORKING EXPERIENCE

Analyst (Research Assistant) <i>The Pennsylvania State University, PA</i> <i>Supervisor: Professor Kathryn W. Jablonski</i>	12/2014-12/2015
Research Assistant <i>Beijing University of Technology, Beijing</i> <i>Supervisor: Professor Li Xie</i>	11/2012-11/2013
Statistician <i>IMS Health Inc., Beijing</i>	06/2011-03/2012

SERVICES

President <i>Student Chapter of INFORMS at University of Cincinnati</i>	07/2019 - Present
Vice President <i>BearStats Student Statistics Club, ASA Student Chapter at University of Cincinnati</i>	08/2017 - Present
Treasure <i>The Lindner Graduate Students Association (LGSA), University of Cincinnati</i>	04/2017 - 04/2018
Vice-President/Fundraiser/Director of Liaison Department <i>Student Union, the Capital University of Economy and Business</i>	07/2009-07/2010
Volunteer <i>2008 Beijing Olympic Games</i>	06/2008-10/2008