

Business Data and Analytics Specialist

- Strong background in Business Analytics and Applications. Taught graduate and undergraduate Business Analytics and Management Science at universities. Led or participated in researches in business risk assessment, big data applications, human medicine, education, etc.
 - Comprehensive practices in leading business data and analysis operations and data driven decisions in global and US insurance companies.
 - Extensive experiences in communicating analytical and technic topics to a broad audience, including senior management, industry conferences, and university classes.
 - Knowledge of business data infrastructure, analytics tools, data science application.
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Career Chronology**Clinic Faculty Member****Krannert School of Management, Purdue University****2018 –**

- Developing and/or teaching a range of graduate and undergraduate courses including Advanced Business Analytics, Data Analytics for Accounting, Data Mining, and Quality Management classes.
- Active in university and school levels of faculty committees and undergraduate BAIM program development.
- Innovating course teaching through embedding soft skill practices, offering masterclasses by industry analytics leaders, utilizing real business data sources, and adapting adequate pedagogical methods and systems.

Senior Vice President, Data and Analytics**Life Capital, Swiss Re (a global leading reinsurer), Armonk, NY****2016 to 2017**

Led the division's data and analytics strategy development. Assisted multiple business entities in developing and implementing the strategies to improve customer experiences, optimizing decisions, and/or automating business processes.

Vice President, Risk Modeling & Analytics**SCOR Global Life Americas (the largest life reinsurer in the US), Charlotte, NC****2010 to 2015**

Established and managed the company's risk modeling & analytics unit to support data driven decisions to business operations including regulatory compliance, portfolio management, pricing, marketing, product development, etc.

Vice President, Advanced Analytics**Assurant Health, Inc. (a division of an S&P 500 company), Milwaukee, WI****2001-2009**

Created and managed the advanced analytics unit to support the company's and its parent company's operations in health, P&C, employee benefit, and other specialty insurances.

Addition experiences

- Taught Statistics and Decision Science courses in several universities in the US and China.
- Collaborated in researches in School of Human Medicine and College of Education.

Education

Ph.D. in Statistics, Michigan State University, Lansing, MI

MS in Statistics and BS in Mathematics, Central-South University, China

Presentations and Publications

- Zhiwei Zhu, "Some Applications and Trends of Predictive Analytics for Life Insurances", Actuarial Science seminar, College of Science, Purdue University, 2019
- Zhiwei Zhu, "What is Data Science, from an academic and an industry perspective", IDSI (Integrative Data Science Initiative) seminar, Purdue University, 2019
- Zhiwei Zhu, "The 4th Industrial Revolution, Data Science, and Risk Analytics". The Bowles Risk Analytics Symposium 2017, J. Mack Robinson College of business, Georgia State University
- Zhiwei Zhu, "Data Science and the 4th Industrial Revolution" Embry Riddle Aeronautic University, 2017
- Zhiwei Zhu, "Data are not always useful, insights are", Chief Data Officer summit, New York City, 2016
- Zhiwei Zhu, et al, "Logistic Regression for Life Insurance Industry Experience Studies", *North American Actuarial Journal*, Volume 19, Issue 4 2015.
- Panel, "Predictive modeling: where are the values", Society of Actuaries annual meeting, 2015
- Panel, "Opportunity and Challenge in Life and Annuity by Using Predictive Modeling", Society of actuaries annual meeting, 2014
- Zhiwei Zhu, "Actuarial Data Management", American Academy of Actuarial, Contingency, Winter 2014
- Zhiwei Zhu, "Predictive modeling for actuaries", Society of actuaries annual meeting, 2014
- Zhiwei Zhu, A Survival Model for Estimating Mortality of Advanced Age Population. *Society of Actuaries, Living to 100*, 2002
- Zhiwei Zhu, What affects Michigan's Breast & Cervical Cancer Control Program rescreening rate. Presented in a CDC sponsored national conference, 1999
- Zhiwei Zhu, An application of Survival Analysis in evaluating timeliness of rescreening. Presented in a CDC sponsored national conference, 1998
- Skin Cancer Prevention and Detection Practices in a Michigan Farm Population Following an Educational Intervention. *The Journal of Rural Health*, Supplemental 1996, 311-320.
- (Coauthor) Mammography Usage and Knowledge about Breast Cancer in a Michigan Farm Population before and after an Educational Intervention. *Journal of Cancer Education*. Vol. 10 (1995) No. 3 p155-162.
- (Coauthor) Use of Skin Cancer Preventive Strategies Among Farmers and Their Spouses. *American Journal of preventive Medicine*. Vol. 11 (1995) No. 5 p342-347.
- (Coauthor) Ocular Effects of Exposure to Triethylamine in a Foundry Sand Core Cold Box Operation. *Occupational and Environmental Medicine*. Vol. 52 (1995) No. 5 p337-343.
- (Coauthor) U. S. Farm Women's Participation in Breast Cancer Screening Practices. *Cancer*. Vol. 75 (1995) No. 1 p47-51 .
- (Coauthor) Pneumoconiosis and Associated Medical Conditions. *American Journal of Industrial Medicine*. Vol. 27 (1995) No. 1 p107-113.
- (Coauthor) Bahadur-Kiefer representations for GM-estimators in autoregression models. *Journal of Stochastic Processes and their applications*. Vol. 57 (1995) 167-189.
- (Coauthor) Bahadur type representations for some minimum distance estimators in linear models. *Probability and Statistics*. Wiley Eastern Limited, New Delhi(1993), 349-364.
- Zhiwei Zhu, On a 0-1 law of strictly stationary processes. *J. of Math*. Vol. 6(1986) No. 4 375-380.
- Zhiwei Zhu, A generalization of Birkhoff ergodic theorem. *J. of Math*. Vol. 5(1985) No. 4 321-328.