

RAO XIONG

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RESEARCH AREAS

Regression modeling, Bayesian network, Machine learning, and Applications of statistical principles in education.

EDUCATION

University of Arizona **Aug., 2018-Now**
Ph.D.in Statistics and Data Science AZ, USA
GPA: 3.95/4.0
Award: Teaching Assistantship Aug., 2019-Dec., 2020
Graduate Associateship Jan., 2020-Jan., 2021
University of Pennsylvania **Jan., 2017-Jun., 2018**
M.S. in Statistics Measurement, Assessment and Research Technology PA, USA
GPA: 3.2/4.0
Westminster College-Salt Lake City **Jan., 2012-Dec., 2015**
B.A. in International Business, minor in Mathematics UT, USA
GPA: 3.75/4.0

PUBLICATIONS

Kersting, N. B., Smith, J. E., Xiong, R., Vezino, B., & Mercier, N. Measuring, modeling, and conceptualizing usable teacher knowledge in mathematics: Theoretical and methodological advances. Targeted journal: *Science*.

Smith, J.E., Xiong, R., Mercier, N., & Kersting, N.B. Using the nominal response model to investigate the internal validity evidence of rubric-based scores. Targeted journal: *Journal of Research on Educational Effectiveness(JREE)*.

Kersting, N. B., Smith, J. E., Xiong, R., Vezino, B., & Mercier, N. Capturing, modeling, and conceptualizing usable teacher knowledge in mathematics. *AERA 2022*.

Xiong, R.(2017). Research on the Relationship between Salary and Performance of Professional Basketball Team (NBA) *8th International Conference on E-business, Management and Economics (ICEME 2017)*
ISBN:978-1-4503-5367-0

Xiong, R. and Xue H. (2017). Research on Resettlement and Resettlement of Water Conservancy Projects. *ICCTE'2017: 2nd International Conference on Civil, Transportation and Environment ISSN 2352-5401(Advances in Engineering Research, Volume 135)*

Xiong, R. (2017). The effects of Time Dimension and Interview Period Research on Sample Loss in SIPP. *IFACIT'2017: 2nd International Forum on Advances in Computer and Information Technology Atlantis Press ISSN*

Xiong, R. (2016). Innovation of Financial Statistical Models in the Era of Big Data Time. *China Market ISSN 1005-6432, CN11-3358/F* (in Chinese)

Xiong, R. (2016). An Analysis of Yogurtland's Investment Prospects and Market Strategies in China. *Contemporary Economics ISSN 1007-9378, CN42-1430/F* (in Chinese)

Xiong, R. (2016). A Study of International E-Commerce's Influential Factors in the Era of Big Data Time. *Modern Business. ISSN 1673-5889, CN11-5392/F* (in Chinese)

INDUSTRY EXPERIENCE

Weiss-Rohlig USA **May, 2016-Dec., 2016**
LAX Assistant Data Analyst LA, USA

- Collected and investigated export-import data such as price fluctuation, booking-shipping-delivery, the number of containers among different industrials involving manufacturing, small-commodity trading, wood, heavy metal, etc through EXCEL
- Analyzed the potential sellers in China, freight routes, and prices of different shipping companies and advantages

of different companies for customer companies

- Complied summary reports based on data analysis and made presentations to our clients
- Dealt with hundreds of emails and tens of phone calls a day to communicate about flights and shipping

Survey Planning Design and Research Institute of Changjiang River

Feb., 2016-May, 2016

Assistant Statistician

Wuhan, China

- Investigated two towns of immigration regions of over 10,000 population, 300,000 acres of land
- Conducted statistical analysis on immigration population and land analysis through R and Excel
- Calculated the settlement allowance and compensations according to the national policies
- Accomplished and published the paper *Research on Resettlement and Resettlement of Water Conservancy Projects*

BDO China Shu Lun Pan CPAs (LLP)

Dec 2015-Jan 2016

Assistant Audit

Wuhan, China

- Participated in auditing Zhengzhou Sanqu Electrical Co., LTD and Majiang Hydropower Co.,LTD
- Checked monetary assets, real assets, bank statements, original bills and statistical analyzed financial data
- Evaluated financial assets
- Verified authenticity of monetary and real assets employing letter of certificate, real assets inventory methods

WORKING EXPERIENCE

GA at University of Arizona

Jan 2020-Now

Graduate Associate, Research at the University of Arizona in the Department of Teaching, Learning Sociocultural Studies.

- Conduct statistical analyses in the project of Classroom Video Analysis-Modified with Professor Nicole Kersting.

GTA at University of Arizona

Aug 2019-Dec 2019

Graduate teaching Assistant for Undergraduate Math Courses

TA at Westminster College-SLC

Sep 2013-Dec 2015

TA for the course Statistics

- Supported the course, designed survey and examined data for department in need

TA for courses of Microeconomics, Macroeconomics, and Accounting

- Evaluated students' homework and exams; Helped solve challenging problems and ensure students to understand what are taught in class

QUALIFICATIONS

Computer Skills: Proficient in SPSS (3 years), Cristal Ball (1 year), R (6 years), MATLAB (1 year), Python(2 years)