Zhiqiang CAO

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Education Background

PhD candidate in Statistics, Department of Mathematics, The Hong Kong University of Science and Technology, Hong Kong.   Aug, 2015 - Present

M.Sc.Probability Theory and Mathematical Statistics, School of Mathematical Science, Beijing Normal University, Beijing.   Sep, 2012 - Jun, 2015

B.S. Statistics, School of Mathematics and Statistics, Chongqing University, Chongqing.   Sep, 2008 - Jun, 2012

Research Interests

Survival analysis, Medical statistics, Data mining (concentrations in statistical learning models), etc.

Honors Awards

Best teaching assistant award, HKUST,	2016
Excellent teaching assistant award, Beijing Normal University,	2015
The Second-class Scholarship, Beijing Normal University.	2014
Third Prize in National Undergraduate Statistical Modeling Contest, Statistics Education Society of China.	2011
National Encouragement Scholarship, Ministry of Education of P.R.C.	2010
National Scholarship, Ministry of Education of P.R.C.	2009
Various scholarships and awards from Chongqing University.	(2008-2012)

Research Articles

- Hui Li, **Zhiqiang Cao**, Guosheng Yin. Varying-Association Copula Models for Multivariate Survival Data. Submitted to The Canadian Journal of Statistics.

- **Zhiqiang Cao**, Hui Li, Xingwei Tong.(2015). A Long Memory Regression Model of IF1407 Contract and Investment Strategy. Journal of Beijing Normal University, Natural Science, 51(4):348-353.

- **Zhiqiang Cao**, Hui Li.(2015). Analysis of Gold Price Fluctuations Based on Intervention Model. Journal of Mathematics in Practice and Theory, (15):146-153.

- **Zhiqiang Cao**, Yang Wang, Wei Li.(2015). Aalen Model and its Application in Medical Research. Chinese Journal of Health Statistics, (2):335-337.

- **Zhiqiang Cao**, Yang Wang, Wei Li.(2015). Comparison of Semi-parametric and Non-parametric Additive Hazards Models: with Tamiflu and Traditional Chinese Medicine to Treat H1N1 Flu Effect for Example. Chinese Journal of Health Statistics, (1):22-25.

- Jing Lu, Qin Liang, **Zhiqiang Cao**.(2012). Efficiency Evolution of Property Insurance Industry in China based on Three-stage Data Envelopment: Analysis of Unbalance Panel Data from 2004 to 2009. Insurance Studies, (5):23-35.

- **Zhiqiang Cao**, Hong Liu, Qin Liang.(2012). An Empirical Study of the Life Insurance Market Efficiency based on CCA-Three-Stage DEA Model. Application of statistical models: The 2011 national undergraduate statistical modeling contest winners selected papers. 437-472. Beijing: China Statistics Press.

Project Experience	**Regression model based on survival data study,** National Natural Science Foundation, Beijing Normal University. 2013.9-2014.10
	• Involved in programming and doing numerical simulation.
	Structure and efficiency of Chinese insurance market study, The Second Chongqing University College Students' Scientific Research Training Program, Chongqing University. 2010.7-2011.7
	• Responsible for building Three-stage DEA model and analyzing data.
	• Involved in writing the paper: **Efficiency Evolution of Property Insurance Industry in China based on Three-stage Data Envelopment: Analysis of Unbalance Panel Data from 2004 to 2009**.
Work Experience	**Intern,** R&D Centre, Nanjing mint co., LTD, Nanjing, 2014.11-2015.4
	• Taking part in building models and writing programs for feature extraction and visual inspection of tax invoice production.
	Intern, Medical Research Statistical Center, Fu Wai Hospital, Beijing. 2013.7-2013.11
	• Using additive hazard model to analyze the Treatment effect of H1N1 Flu Between Traditional Chinese Medicine and Tamiflu.
	• Taking part in PURE (Prescriptive Urban & Rural Epidemiology Study) project, analyzing relative data using descriptive statistics.
	Teaching Assistant, HKUST, Hong Kong. 2016.2-Present
	• Survival analysis, Statistical inference.
	Teaching Assistant, Beijing Normal University, Beijing. 2013.9-2014.6
	• Time series analysis, Probability theory and mathematical statistics.
	Vounteer, The 7th R Conference of China, Beijing. 2014.4-2014.5
	• Participating in production meeting manual and analyzing data about participants.
	• Meeting on-site service.
Computer Skills	Programing: R(excellent), Matlab(good), C(good), SAS(basic).
	Others: Office software, LaTeX, Markdown.