

# Hui Lin

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- Data Science Blog: <http://scientistcafe.com>

## Education

- **2011 - 2013 PhD in Statistics**, Department of Statistics, Iowa State University, USA
- **2009 - 2011 MS in Statistics**, Department of Statistics, Iowa State University, USA
- **2005 - 2009 BS in Statistics**, School of Mathematical Science, Beijing Normal University, CHINA

## Working and Research Experience

- **May.2013 - Present, Data Scientist, DuPont Pioneer**, Johnston, IA, USA
  - Provide statistical leadership for a broad range of predictive analytics and customer segmentation analyses focused on improving Sales and Marketing productivity
  - Manipulate and analyze high-volume, high-dimensionality data from varying sources using a variety of statistical models to quantitatively study customer relationship, identify driving factors and answer complex business questions
  - Analyze market research survey data using psychometric models and natural language processing; quantitatively study customer perception and identify variables that are predictive of patterns and/or are leading indicators
- **Sep.2009-Apr.2013, Research Assistant**, Production Animal Disease Risk Assessment Program
- **Jun.2012- Apr.2013, Statistical Consultant**, Statistical Consulting for Business College, Iowa State University
- **Aug.2011- May.2012, Statistical Consultant**, General University Statistical Consulting and Statistics Consulting for College of Veterinary Medicine, Iowa State University
- **Spring.2010 Semester, Teaching Assistant**, TA for STAT 341, 342, Department of Statistics, Iowa State University
- **Mar.2008- May.2009, Research Team Leader**, Statistics Methods for Cosmological Parameters Estimation, Beijing, Undergraduate Creative Research Project Sponsored by Beijing City
- **Oct.2007- Dec.2008, Research Assistant**, Sugar Futures Market in China, School of Mathematical Science, Beijing Normal University, Beijing
- **Oct.2007- Mar.2008, Research Team Leader**, Parameter Constrains in Astronomy Based on LCDM Cosmology, Beijing, Undergraduate Scientific Research Project Sponsored by Beijing Normal University

## Publications

- Krysta Deitz, Kelly Makielski, Jackie M. Williams, **Hui Lin**, Jo Ann Morrison (2015). Effect of 6-8 weeks of oral ursodeoxycholic acid administration on serum concentrations of fasting and postprandial bile acids and biochemical analytes in healthy dogs. ,Veterinary Clinical Pathology, DOI: 10.1111/vcp.12275.
- **Hui Lin**, Chong Wang, Peng Liu, Derald J. Holtkamp (2013). Construction of Disease Risk Scoring Systems using Logistic Group Lasso: Application to Porcine Reproductive and Respiratory Syndrome Survey Data, (Journal of Applied Statistics, DOI:10.1080/02664763.2012.752449)

- Derald J. Holtkamp, **Hui Lin**, Chong Wang (2013). Development and Validation of an Objective Risk Scoring System for Assessing the Likelihood of Virus Introduction in Porcine Reproductive and Respiratory Syndrome Virus-Free Sow Farms in the US, (Open Journal of Veterinary Medicine, DOI: 10.4236/ojvm.2013.32026)
- Allen, Kelli; Coetzee, Johann; Edwards-Callaway, Lily; Glynn, Hayley; Dockweiler, Jenna; KuKanich, Butch; **Lin, Hui**; Wang, Chong; Fraccaro, Elena; Jones, Meredyth; Bergamasco, Luciana (2013). The effect of timing of oral meloxicam administration on physiological responses in calves after cautery dehorning with local anesthesia, (Journal of Dairy Science, DOI: 10.3168/jds.2012-6251)
- **Hui Lin** (2013). Statistical methods in disease risk analysis, disease testing and nutrition epidemiology, Graduate Theses and Dissertations. Paper 13380.
- Derald J. Holtkamp, **Hui Lin**, Chong Wang (2012). Identifying questions in the American Association of Swine Veterinarian's PRRS risk assessment survey that are important for retrospectively classifying swine herds according to whether they reported clinical PRRS outbreaks in the previous 3 years., Preventive Veterinary Medicine 106(2012) 42-52
- **Hui Lin**, Cheng Hao, Xiao Wang, Qiang Yuan, Tong-Jie Zhang, and Bao-Quan Wang (2008). Observational H(z) Data as a complementary to other cosmological probes, (Modern Physics Letter A, DOI: 10.1142/S0217732309030217)
- **Applied Predictive Modeling** : By Max Kuhn and Kjell Johnson
  - Chinese translator for chapters 1-4, 12-14, 16, 18-20
  - Publisher in China: Huazhang Publishing Inc.
  - Current status: Punlished in May 2016
- **R for Marketing Research and Analytics** : By Chris Chapman and Elea McDonnell Feit
  - Chinese translator for the book
  - Publisher in China: Huazhang Publishing Inc.
  - Current status: Punlished in Oct 2016
- **Statistical Rethinking - A Bayesian Course with Examples in R and Stan** : By Richard McElreath
  - Chinese translator for the book
  - Publisher in China: Huazhang Publishing Inc.
  - Current status: Under translating, expect to finish by Mar 2016
- **Data Scientist Using R**: By Hui Lin
  - Author of the book in Chinese: <http://scientistcafe.com/book/>
  - Publisher in China: Publishing House of Electronics industry
  - Current status: writing in Chinese, under review

## Technical Reports

- **2014**, Exact Test for Difference in Proportions Based on One-to-two Matched Binary Data
  - <http://scientistcafe.com/works/MatchedTestDraft.pdf>
- **2014**, Distribution of Non-normal, Dependent Bivariates with Additive Measurement Error
  - [http://scientistcafe.com/works/AME\\_Draft\\_Hui\\_Mar20.pdf](http://scientistcafe.com/works/AME_Draft_Hui_Mar20.pdf)
- **2012**, Modeling Dependence with Copulas: Theory and Applications
  - [http://scientistcafe.com/works/ModelingDependence\\_with\\_Copulas\\_TheoryApplications.pdf](http://scientistcafe.com/works/ModelingDependence_with_Copulas_TheoryApplications.pdf)

## Tutorials and Invited Talks

- **Jul 7, 2016**, Market Research Customer Perception Analytics, Online live tutorial at xueqing.tv
- **Jun 8, 2016**, Data Wrangling in R and Model Technique, Online tutorial at xueqing.tv
- **Jun 2, 2016**, General Process of Data Analysis and Data Preprocessing, Online tutorial at xueqing.tv
- **Feb 2, 2016**, Female in STEM, Invited by Jewels Academy Des Moines, Iowa
- **Dec 12, 2015**, What is data scientist? Invited by Capital of Statistics(COS), Renmin University, Beijing, CHINA
- **Nov 2015**, Data Pre-processing Using R, Local workshop by Central Iowa R User Group, Johnston, Iowa, USA
- **May 24-25, 2014**, Analytics to Support Business Decision in Traditional Industry, Invited by 7th R conference, Beijing, CHINA

## Services and Professional Membership

- **2018 Program Chair:** ASA Section on Statistics in Marketing
- **2017 Program Chair-Elect:** ASA Section on Statistics in Marketing
- **2015-Present**, Co-Founder, Central Iowa R User Group  
CIRUG is dedicated to bringing together area practitioners of R to exchange knowledge, inspire new users, and spur the adoption of R for innovative research and commercial applications. The previous workshops can be found at <http://scientistcafe.com>
- **2015-Present**, ASA Section on Statistics in Marketing
- **2011-Present**, American Statistical Association (ASA), member
- **2012-Present**, Capital of Statistics (<http://cos.name/>), administrator
- **2012 - Present**, Referee, Journal of Applied Statistics
- **May 24-25, 2014**, Committee member, 7th R conference, Beijing, CHINA
- **2013 - 2014**, Chinese teacher, Iowa Chinese Language School (ICLS), Johnston, Iowa  
ICLS (<http://www.iowachineseschool.org/>) is a non-profit and volunteer-based organization established on July 17, 1999. ICLS is also a member of Chinese School Association in the United States (CSAUS). ICLS currently has an enrollment of 100+ students aged from 4 to adult in seventeen classes. The teachers are selected from the volunteers who have Mandarin Chinese as their native language and hold at least Bachelor degree and have teaching skills
- **Summer 2007**, Organizer, Campaign to raise money for impoverished students, Shaowu City, Fu Jian Province, CHINA

## Honors&Awards

- **Jun.2009** Second Prize, "Challenge Cup" Undergraduate Creative Academic Work Competition of Capital of China
- **Mar.2009** First Prize, "Jing Shi Cup" Paper Competition of Beijing Normal University
- **Oct.2008** The third major scholarship of Beijing Normal University
- **Sep.2006** The second major scholarship of Beijing Normal University
- **Dec.2005** First prize of 1.29 chorus of Beijing Normal University