

Hui Lin

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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

Computer Skill:

Programming: expertise in R (8 yrs), Python (1+ yr), SQL (4+ yr), CSS, JavaScript, HTML5
Software and system: SAS, Linux/Unix, Windows, AWS, limited experience with spark

Working and Research Experience

Sep.2017 - Present, Data Scientist, DowDuPont, Johnston, IA, USA

Provide statistical leadership for a broad range of predictive analytics in Marketing

Apply models to drive decisions for billion-dollar marketing budget

Bayesian Regression Model, Super Learner ensembles: Elastic Network Regression, AIC Stepwise Regression, Random Forest, Neural Network, Support Vector Machine, Gradient Boosting Tree, Partial Least Square Regression

Lead project on social media analytics

Network Analysis, Natural Language Processing (POS tagging, entity recognition, sentimental analysis, topic modeling)

Construct automatic social media data pipeline with data engineer: scrape data from Ag Forum or get data through API, build database in the cloud, develop dashboard for marketing users

Provides support to evaluate marketing programs under the observational scenario

Provide statistical training to other analysts on experimental design and propensity score analysis

Automating models and dashboard that track business performance

*Identify key marketing metrics with the marketing analytics team
Develop and implement Shiny dashboard including those metrics*

May.2013 - Aug.2017, 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

Group Lasso Logistic Regression, Random Forest, Hierarchical Clustering

Apply models to drive decisions for billion-dollar marketing budget

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

Factor analysis, Topic Model, Longitudinal Analysis

Work with data engineers to design and build marketing database in the cloud to support current and future marketing analytics

It evolves to the current project on social media analytics

Jun.2015 - Present, Co-founder, [Central Iowa R User Group](#)

Jun.2012 - Apr.2013, Consultant, Statistical Consulting for Business College, Iowa State University

Apr.2012 - Apr.2013, Research Assistant, [Exact Test for Difference in Proportions Based on One-to-two Matched Binary Data](#)

Nov.2011 - Apr.2013, Research Assistant, [Distribution of Non-normal, Dependent Bivariates with Additive Measurement Error](#)

Sep.2009 - Apr.2013, Research Assistant, [Production Animal Disease Risk Assessment Program](#)

Aug.2011 - May.2012, 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

Certifications

Structuring Machine Learning Projects

Coursera, License QNMAPFJUBKAL

October 2017 – October 2017

Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization

Coursera, License X85WN3PHKLS7

October 2017 – October 2017

Neural Networks and Deep Learning

Coursera, License XAS5ZLMD234X

September 2017 – September 2017

Pioneer Young Professionals Leadership Exploration and Development Program

DuPont Pioneer

January 2016 – December 2016

Book

[Machine Learning using R](#): By Hui Lin

Publisher: Publishing House of Electronics industry

Status: Published in Oct 2017

ISBN : 9787121326585

[Introduction to Data Science](#): By Hui Lin and Ming Li

Publisher: CRC Press
Status: 2019 Dec 31 (Expected)
Github: <https://github.com/happyrabbit/IDS>

Book Translation

- [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.
Status: Published 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.
Status: Published 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.
Status: Expect to finish by Nov 2017

Journal 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** (2013), [Statistical methods in disease risk analysis, disease testing and nutrition epidemiology](#), Graduate Theses and Dissertations. Paper 13380.
- J.M. Williams, I.A. Krebs, E.A. Riedesel, C.K. Kelly, **H. Lin** (2013), [Comparison of fluoroscopy and computed tomography for tracheal lumen diameter measurement and determination of intraluminal stent size in healthy dogs](#), *Veterinary Radiology & Ultrasound*. DOI: 10.1111/vru.12111
- Hui Lin**, Chong Wang, Peng Liu, Derald J. Holtkamp (2012), [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 (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
- Allen, Kelli; Coetzee, Johann; Edwards-Callaway, Lily; Glynn, Hayley; Dockweiler, Jenna; KuKanich, Butch; **Lin, Hui**; Wang, Chong; Fraccaro, Elena; Jones, Meredyth; Bergamasco, Luciana (2012), [The impact and effect of timing of oral meloxicam administration on physiological responses in calves after dehorning with local anesthesia](#), *Journal of Dairy Science*, DOI: <http://dx.doi.org/10.3168/jds.2012-6251>
- Derald J. Holtkamp, **Hui Lin**, Chong Wang (2012), Evaluation of an objective risk scoring system for assessing the likelihood of virus introduction in porcine reproductive and respiratory

syndrome virus-free breed-to-wean sow herds in the U.S., *Open Journal of Veterinary Medicine*. 3 168-175

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* (No. MPLA-D-08-00168R1)

Tutorials and Invited Talks

Preparing Statistician/Statistics Graduates to Be Data Scientist, 2017-07-30, [Joint Statistical Meeting 2017](#), [Course Website](#)

Interactive document and dashboard using R and shiny, 2017-07-12, [Central Iowa R User Group](#), [Blog](#)

Data Scientist Using R - Data Wrangling, 2017-05-02, [Central Iowa R User Group](#), [Blog](#)

Data Science Introduction, 2017-03-29, [Central Iowa R User Group](#), [Slides](#)

Unlock Unstructured Data, 2016-12-29, [Beijing Institute of Technology](#), [Slides](#), [Rcode](#)

Market Research Customer Perception Analytics, 2016-7-21, [Video](#), [Slides](#), [Rcode](#)

Data Wrangling in R and Model Technique, 2016-6-8, Capital of Statistics(COS)-North America, [Video](#), [Slides](#), [Rcode1](#), [Rcode2](#)

General Process of Data Analysis and Data Preprocessing, 2016-6-2, Capital of Statistics(COS) - North America, [Video](#), [Slides](#), [Rcode](#)

[Jewels Academy Math Camp](#), 2016.2.20, [Jewels Academy](#), Des Moines, Iowa

[What is data scientist](#), 2015.12.12, [Capital of Statistics\(COS\)](#), Beijing, CHINA, [Video](#), [Slides](#)

[Data Pre-processing Using R](#), 2015.11, [Central Iowa R User Group](#), Johnston, Iowa, USA

Analytics to Support Business Decision in Traditional Industry, 2014, 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

2016-2017, Web developer and maintainer, [Johnston Alternative Gift Market](#)

2015-Present, ASA Section on Statistics in Marketing

2012-Present, [Capital of Statistics](#), administrator

2012-Present, Referee, *Journal of Applied Statistics*

2011-Present, American Statistical Association (ASA), member

May 24-25, 2014, Committee member, 7th R conference, Beijing, CHINA

2013-2014, Chinese teacher, Iowa Chinese Language School (ICLS), Johnston, Iowa

[ICLS](#) is a non-profit and volunteer-based organization established on July 17, 1999.

Summer 2007, Organizer, Campaign to raise money for impoverished students, Shaowu City, Fu Jian Province, CHINA