Yadong Lu

CONTACT Donald Bren Hall Phone: (518)3344636 INFORMATION University of California, Irvine E-mail: yadongl1@uci.edu

Interests Convolution Neural Network, Bayesian statistics, and their applications.

EDUCATION Sichuan University, Mathematics, B.S. Aug 2012 - 2016

Honored Class, funded by National Pilot Program of Chinese Universities.

GPA: 3.72/4.0(3rd in ranking), Adviser: Xiaojing Shen

National University of Singapore, Applied Math 2014 - 2015

One-year Study Abroad Programme.

University of California, Irvine, PhD in Statistics Sept 2016

TECHNICAL SKILLS **Programming Languages**: C, Python; Matlab, R; Latex;

TEST SCORES GRE: Quantitative Reasoning: 170/170, Verbal Reasoning: 157/170

RESEARCH EXPERIENCES AND ACTIVITIES

Summer School on Knot Theory

Aug 2014

Nankai University, funded by National Pilot Project.

Summer Seminars of Computational Biology

July 2015

With Prof. Michael Waterman, Prof. Fengzhu Sun. Fudan University.

University of California, Irvine, Department of Mathematics Dec 2015

Visiting program on advanced probability and stochastic process.

Optimal Search and Rescue Model Updated by Bayesian method Jan 2015

- This paper aims at searching for crashed planes in ocean area. Major work include: simulation of crash trajectory and optimal search method using Dinkelbach's algorithm.
- The result shows that the systematic plan developed using various types of searching planes helps to find the flight AF477 within 2 hours.

Impact of Monetary Policy on Stock Market

April 2015

- With Prof. Chan Yiu Man, at National University of Singapore.
- Several regression models was established to optimized to analyze the change of SSE(Shanghai Stock Exchange) Composite Index under the influence of monetary policy in China. policy change.

Quantative Trading Strategies for Achieving Alpha

2015

- With Prof. Chang Liu, at Sichuan University
- Historical data within 3000 trading days was crawled to backtest strategies. Different profitable factors was figured out and was combined to construct strategies. Include instensive Python programming.

Bayesian Estimation of Heston Stochastic Volatility Model 2015-16

- With Dr. Liang Wu from Brown University.
- This paper develops algorithms of Gibbs sampling for the Heston (1993) Stochastic Volatility Model. We estimate the parameters in the model and predict the volatility using the data in Shanghai Stock Exchange.

CONTRIBUTED PRESENTATIONS

Seminars on Probability with Martingale, Sichuan University Feb-Jun 2014

• Doob's optional Stopping time Theorem and its implications.

Semninars on Markov Chain Monte Carlo Methods, Sichuan University Sept-Oct 2015

• Generation of random variable; The Metropolis Hastings Algorithm; The Two Stage Gibbs Sampler.

AWARDS AND SCHOLARSHIPS

- Outstanding Undergraduate Student Award, Sichuan University (2016)
- Honorable Mention, Mathematical Contest in Modeling (MCM), COMAP, U.S. (2015)
- Scholarship of Temasek Foundation, National University of Singapore (2014)
- Fellowship of Chinese National Pilot Project for Fostering Top-notch Students in Fundamental Science, Sichuan University (2013-2016)
- $\bullet\,$ First Prize Award of Mathematical Modeling Competition, Sichuan University (2013)