KUNBO WANG

Phone: (667) 225-2186 Email: kunbo.wang@jhu.edu 3628 Fords Lane, Baltimore, MD 21215

EDUCATION

Johns Hopkins University, Baltimore, U.S.	Sep. 2017 – Exp May. 2022
Whiting School of Engineering	
Ph.D. Candidate in Applied Mathematics and Statistics	
Advisor: Yanxun, Xu	
Johns Hopkins University, Baltimore, U.S.	Sep. 2015 - May. 2017
Whiting School of Engineering	
Master of Science in Financial Mathematics	
Central University of Finance and Economics, Beijing, China	Sep. 2011 - May. 2015
School of Finance	
Bachelor of Economics in Financial Engineering	
WORK EXPERIENCE	

Johns Hopkins University, Baltimore, U.S.

Research Assistant

- Research assistant to Professor Yanxun Xu in the Applied Math and Stats Department.
- Major research focuses on developing Bayesian methods for various statistical problems.
- Specifically, on Bayesian tensor regression method, theory and methods on network analysis.
- Statistical applications related to clinic data.

Bank of China International, Beijing, China

Financial Researcher

- Securitization of microfinance assets (pricing, risk assessment, and stress testing).
- Wrote Matlab code to preprocess assets, calculate cash flows, and do product pricing.

Citibank (China) Co., Ltd., Beijing, China

Intern Wealth Planner

• Helped Design comprehensive financial plan based on market trend for VIP clients.

May. 2014 - Jun. 2014

Jun. 2016 - Present

Summer, 2014

Johns Hopkins University, (Applied Mathematics and Statistics)

Mathematics and Statistics Courses:

- Teaching Assistant for Machine Learning
- Teaching Assistant for Network Models in Operations Research
- Teaching Assistant for Introduction to Probability

Programming Courses:

- Instructor for Introduction to R
- Instructor for Introduction to Matlab

Financial Mathematics Courses:

- Teaching Assistant for Introduction to Financial Derivatives
- Teaching Assistant for Interest Rate and Credit Derivatives
- Teaching Assistant for Risk Measurement/Management in Financial Markets
- Teaching Assistant for Quantitative Portfolio Theory and Performance Analysis
- Teaching Assistant for Investment Science

PUBLICATIONS & RESEARCH WORKS

Theoretical and Methodology Works

- Kunbo Wang, Yanxun Xu: Bayesian tensor on tensor regression, ready for submission
- Kunbo Wang, Fangzheng Xie, Yanxun Xu: Second-order results on optimal Bayesian estimation for stochastic block model, in progress
- Kaining Yang, **Kunbo Wang**, Chen Feng: Finite-sample analysis of iterate averaging method for stochastic approximation with quadratic loss function, In 2017 Conference on Information Sciences and Systems (CISS). IEEE

Application Works

- Jane A O'Halloran^{*}, **Kunbo Wang**^{*}, et al: Start or Switch of Integrase Inhibitors on Depressive Symptoms in Women with HIV, in preparation
- Asante R. Kamkwalala^{*}, **Kunbo Wang**^{*}, et al: Symptoms of PTSD Differentially Impacted by "Off-to-On" Integrase Inhibitor Switch in Women with HIV, in progress
- Jane A O'Halloran^{*}, **Kunbo Wang**^{*}, et al: Integrase Inhibitor Start or Switch Impacts Learning in Women with HIV, submitted 2019, in preparation

HONORS & AWARDS

Silver Medal in China National Business Plan Competition	Jan. 2014
• First Prize in China Undergraduate Mathematical Contest in Modeling.	, Nov. 2013
SKILLS & QUALIFICATIONS	

Computer Skills:

• Proficient in R, Matlab, Python, C++ (Rcpp), LaTeX, Microsoft Excel, SQL

Exams & Certificates:

- Passed EQ, FI, FX and COM exams in Bloomberg Essentials Training Program
- Passed Financial Risk Management (FRM) Exam Part I (all excellent)

Languages:

- Native speaker of Mandarin
- Fluent in English (TOEFL Score: 107/120)

QUANTITATIVE COURSEWORK

Johns Hopkins University, (Applied Mathematics and Statistics)

- Statistical Theory I
- Statistical Theory II
- Statistical Pattern Recognition
- Stochastic Processes
- Monte Carlo Methods
- Stochastic Optimization
- Nonlinear Optimization I
- Nonlinear Optimization II
- Combinatorial Optimization
- Topics in Discrete Optimization
- Probability Theory I
- High-Dimensional Approximation
- Matrix Analysis & Linear Algebra
- Machine Learning
- Advanced Topics in Bayesian Stats

Central University of Finance and Economics

- Real Analysis
- Introduction to Probability
- Introduction to Algorithms
- Introduction to Data Structures
- Numerical Analysis
- Mathematical Statistics
- Functional Analysis
- Advanced Algebra

LEADERSHIP & PROJECTS

Quantitative Trading Strategy Team, China & U.S.

May. 2019 - Present

Team Leader

- Extracted, transformed, and loaded data from various sources.
- Created proper criteria to select qualified stocks from CSI 300 (China) stock pool.
- Created trading strategy and trained historical data for optimal parameters.