SHAOSHU LI

Email: s12555@cornell.edu

Personal website: www.explorer1024.com

| Education | | Ithaca, USA |
|-------------|---|--|
| Aug, 2015- | Department of Economics, Cornell University PHD in Economics | imaca, obri |
| Dec, 2021 | | |
| | | |
| Aug, 2013- | Department of Statistical Science, Cornell University | Ithaca, USA |
| Dec, 2014 | MPS in Applied Statistics | , |
| , | 11 | |
| Sep, 2009- | School of Management, Xiamen University | Xiamen, China |
| Jul, 2013 | Double Major in Accounting (ACCA track) and Mathematics & Applied Mathematics | · |
| Research | <u> </u> | |
| Dec, 2019 – | A New Approach to Self-Normalization | Ithaca, USA |
| June, 2021 | Propose a new estimator to avoid long-run variance estimation in hypothesis | is testing about the |
| , | population mean of a time series process, which can completely get rid of estimations. | |
| | • By taking advantage of the properties of order statistics, the new estimator can be | |
| | the extreme value property of time series data especially under heavy tail distributions. Compared with related tests, the new test statistics has salient asymptotic local power against broad | |
| | class of local alternatives. | |
| | Empirical analysis depicts the new estimator has better size performance under lidistributions and the finite sample power is pronounced under most cases. In add MBB methods can also improve the size performance of the new estimator usituations. | dition, incorporating |
| | Real world analysis for S&P 500 percentage return series and macroeconomic series estimator has outstanding power performance especially when data depicts more observations are available. | |
| Sep, 2018 – | Commercial Bank Operation Analysis using Multi-task Gaussian Process Model | Ithaca, USA |
| Sep, 2019 | Apply multi-task Gaussian process model (MTGP) in Bayesian Machine Learning (BML) to analyze commercial banks' operations especially on profitability and efficiency. | |
| | By learning these tasks jointly, one can improve the overall accuracy of estimati are correlated. | ons if task variables |
| | As some simple case, we use some typical co*†mmercial bank indicators in C several task variables related to banks' profitability and efficiency. | compustat to predict |
| | Perform some analysis for large banks and small banks separately. | |
| | Using the negative marginal likelihood to compare model fit. The simulation decomposing asset class into detail classifications in the MTGP model, we can | |
| | fit to certain degree. | • |
| June, 2017– | A General Liquidity Risk Model | Ithaca, USA |
| June, 2018 | Construct a general liquidity risk model that includes both convex liquidity risk j | part and non-convex |
| June, 2018 | liquidity risk part. Convex liquidity risk part is modeled as liquidity adjuste | |
| | purchasing times stock price. Non-convex liquidity risk part is modeled as a part | of fix liquidity cost |
| | minus a part varies with convex liquidity risk part. | |
| | Establish an equilibrium asset price using representative agent approach. Sy relationship can be characterized using state price density. | stematic risk return |
| | Solve for individual trader's optimal trading strategy. Under representative a representative trader's utility can be considered as a weighted sum of individua an asset market. Solve for representative trader's optimal trading strategy in a liquidity risk. Find the pricing conditions where no trade is an optimal strateg trader. | l traders' utilities in n asset market with |
| | Define representative trader asset market equilibrium with liquidity risk. E conditions of the existence of representative trader asset market equilibrium. Cl market equilibrium with liquidity risk. | |

^{*} September, 2021

| May, 2014– | The Applications of Support Vector Machines in Economics Ithaca, USA | |
|-------------|---|--|
| June, 2015 | • Dug up the research history and recent articles of SMV, reviewed its common usage in various areas | |
| June, 2015 | • Explained how Support Vector machines could have very large VC dimension by computing the VC | |
| | dimension for homogeneous polynomial and Gaussian radial basis function kernels | |
| | | |
| | • Gave examples and proofs about SMV's application in macroeconomic researches with high | |
| | dimensional data, analyzed merits and demerits of research methodology | |
| Jan, 2014- | Lift Truck Industry Correlation to Census Data Ithaca, USA | |
| May, 2014 | Team member, Project report for MPS in Applied Statistic program, Cornell University | |
| | Correlated given information by transferring original data into non-negative parameter series | |
| | • Developed and tested negative binomial models and linear regression models based on RMSE | |
| | statistic | |
| | • Applied cross validation on models to obtain prediction of trucks sales by ITA to each NAICS | |
| | industry with Raymond data and checked model assumptions by examining model diagnostic plots | |
| | • Used factor regression to prove the shift of ITA sales from Class 4 trucks to Class 1 trucks and from | |
| | Class 1 trucks to Class 3 trucks | |
| Jan, 2012- | Ordinal Cluster Dummy Variable Method with its Application Xiamen, China | |
| Mar, 2012 | Research Assistant, Data Mining Research Center, Xiamen University | |
| Widi, 2012 | Applied Monte Carlo simulation to compare the Ordinal Cluster Dummy Variable Method with | |
| | Chow test and Recursive Least Squares (RELS), helped to discover the priorities of the Method | |
| | | |
| | • Assisted in analyzing the Beta stationary of Chinese stock market with Chow test, RELS and | |
| | Ordinal Cluster Dummy Variable Method, helped to interpret the test results | |
| | • Self-learned Chow test and RELS by reading books and references. | |
| | CPI Verification of Short-term Volatility of Inflation in China and Time-share Adjustment of Long- | |
| Feb, 2011- | term Balance Xiamen, China | |
| May, 2011 | Research Assistant, Data Mining Research Center, Xiamen University | |
| | Conducted CPI indicators' adjustment with R programming and X-12-ARIMA model | |
| | • Helped with stationary test of the time series of indicators with Augment Dickey-Fulle (ADF), | |
| | provided support for model establishment and hypothesis testing | |
| | The Research on Evaluation System of Statistical Data Quality Xiamen, China | |
| Sep, 2010- | • Compared and contrasted statistic data quality requirements in International Monetary Fund's Data | |
| Feb, 2011 | Quality Assessment framework to financial reporting data quality requirements in the Financial | |
| | Accounting Standards Board's framework | |
| | • Summarized real conditions corresponding to each data quality items, majorly interpreted statistical | |
| | data from the perspective of users' demand and the statistical data producing process | |
| Publication | | |
| May, 2013 | WANG Heng-heng ¹ , LI bin ¹ , LUAN Xiao-feng ¹ , GU Cai-wei ¹ , LI Shao-shu ² , <i>Investigations on population</i> | |
| 111uy, 2015 | dynamics of Fejervarya multistriata in Plantations in Fujian, Journal of Beijing Forestry University | |
| | Applied cluster analysis to classify rice frog based on snout-vent length and body weight | |
| | Applied 1-Sample K-S Test and one-way ANOVA to analyze and compare the variation of the | |
| | length (L), weight (W), relative-fatness (K) and weight/length (Kwl) of Fejervarya limnocharis | |
| | | |
| Mov. 2012 | • Analyzed the variation of L, W, K and Kwl in different month, different type/age of plantations Jia Dan-ping ¹ , Hu Ming-xing ¹ , Li Shao-shu ² , <i>On the Framework designing of statistical indicators of</i> | |
| May, 2013 | | |
| | Forest insurance, Journal of Northwest Forestry University. | |
| | • Designed a framework of statistical indicators from the perspective of government, insurance | |
| | companies and forestry producers, included basic indicator and calculating indicator | |
| Jan, 2013 | ZHANG Ying ¹ ,LI Hui ¹ ,LI Shaoshu ² , Comparative Analysis of Forest Conservation and Sustainable Forest | |
| | Management in China and Germany, Forestry Economics | |
| Teaching | Department of Economics, Cornell University Ithaca, USA | |
| Experience | Teaching Assistant for Introductory Microeconomics, Introductory Macroeconomics and Financial | |
| Aug, 2016- | Economics. | |
| June, 2021 | | |
| Activity | Food and Agriculture Organization of the United Nations Wenchuan, China | |
| Jul, 2008- | • Went to areas severely damaged by the earthquake as FAO volunteer to give supports and provide | |
| Sep, 2008 | necessary foods and materials to refugees, broadcasted knowledge of farmland rebuild | |
| Skills & | Languages: Native in Chinese, Fluent in English | |
| Interests | Programming: SAS (SAS advanced certification holder), R, Matlab, Stata, C++, Python, SPSS, VB, | |
| interests | | |
| | etc. • Interests: Panding Outdoor sports, and playing the flute | |
| | Interests: Reading, Outdoor sports, and playing the flute | |