SHAOSHU LI

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Education	Denastment of Economics Council University Ithese USA
Education May 2022	Department of Economics, Cornell University Iunaca, USA
Way, 2022	
Dec. 2014	Department of Statistical Science Cornell University Ithaca USA
Dec, 2014	MPS in Applied Statistics
Jul 2013	School of Management Xiamen University Viamen China
Jul, 2015	Bachelor of Management in Accounting (ACCA track) and Bachelor of Science in Mathematics & Applied
	Mathematics
Research	
Dec. $2019 -$	A New Approach to Self-Normalization Ithaca USA
Lune 2021	Job Market Paper with Yongmigo Hong Cornell University
June, 2021	• Proposed a new estimator to avoid long-run variance estimation in hypothesis testing about the
	population mean of a time series process. The new estimator could completely get rid of puisance
	population mean of a time series process. The new estimator could completely get hu of nuisance
	could also better take account of the extreme value property of time series data especially under
	howy toil distributions
	Compared the new estimator with related tests on examptotic level news.
	• Compared the new estimator with related tests on asymptotic local power. The new estimator showed salient asymptotic local power assignst bread along of local alternatives.
	snowed salient asymptotic local power against bload class of local alternatives.
	• Applied R to perform empirical analysis. Empirical analysis in hypothetical data generating process
	depicted the new estimator had better size performance under neavy tail IID stable distributions and
	the finite sample power was pronounced under most cases. In addition, incorporating MBB methods
	could also improve the size performance of the new estimator under several AR(1) situations.
	• Performed empirical analysis using real world data. Real world analysis for S&P 500 percentage
	return series and macroeconomic series also depicted the new estimator had outstanding power
Sep 2018 -	performance especially when data depicted larger volatility and more observations were available.
Sep. 2019	Commercial Bank Operation Analysis using Multi-task Gaussian Process Model Ithaca, USA
5 c p, 2017	Solo paper, Cornell University
	• Applied multi-task Gaussian process model (MIGP) in Bayesian Machine Learning (BML) to
	mutually analyze commercial banks operations especially on profitability and efficiency. By
	learning two tasks jointly, one could improve the overall accuracy of estimations if task variables
	were correlated.
	• Adopted Matiab and some typical commercial bank indicators in Compustat to predict several task
	variables related to banks promability and efficiency.
	• Performed some analysis for large banks and small banks separately.
	• Used the negative marginal likelihood to compare model fit. The simulation results showed by
	decomposing asset class into detail classifications in the MIGP model, one could improve the
June, 2017–	model fit to certain degree.
June, 2018	A General Liquidity Kisk Model Itnaca, USA
,	With Robert Jarrow, Cornell University
	• Constructed a general liquidity risk model that included both convex liquidity risk part and non-
	convex liquidity risk part. Convex liquidity risk part was modeled as liquidity adjusted amount for
	stock purchasing times stock price. Non-convex liquidity risk part was modeled as a part of fix
	inquidity cost minus a part varies with convex inquidity risk part.
	• Established an equilibrium asset price using representative agent approach. Systematic risk return
	relationship could be characterized using state price density.
	• Solved for individual trader's optimal trading strategy. Under representative agent approach, the
	representative trader's utility could be considered as a weighted sum of individual traders' utilities in
	an asset market. Solved for representative trader's optimal trading strategy in an asset market with
	inquidity risk. Found the pricing conditions where no trade was an optimal strategy for representative
	• Defined representative trader asset market equilibrium with liquidity risk. Established the pricing
	conditions of the existence of representative trader asset market equilibrium. Characterized the asset
	market equilibrium with liquidity risk.

M 2014	
May, 2014–	I ne Applications of Support vector Machines in Economics
June, 2015	• Dug up the research history and recent articles of SVM, reviewed its common usage in various areas
	• 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 SVM's application in macroeconomic researches with high
	dimensional data analyzed merits and demerits of research methodology
Ian 2014-	Lift Truck Industry Correlation to Census Data
Jan, 2014	Internet on the second se
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
	Close 1 make to Close 2 make
T 2012	
Jan, 2012-	Ordinal Cluster Dummy Variable Method with its Application Xiamen, China
Mar, 2012	Research Assistant, Data Mining Research Center, Xiamen University
	• 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
	• Solf loamed Chow test and DELS by reading books and references
F 1 2011	• Sen-learned Chow test and KELS by reading books and references.
Feb, 2011-	CPI verification of Short-term volatility of Inflation in China and Time-share Adjustment of Long-
May, 2011	term Balance Xiamen, China
	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
Sep 2010-	The Research on Evaluation System of Statistical Data Quality Xiamen China
Sep, 2010-	Compared and contracted statistical Data Quality requirements in International Monetory Fund's Data
Feb, 2011	• Compared and contrasted statistic data quality requirements in international Monetary Fund's Data
	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>
	dynamics of Feiervarya multistriata in Plantations in Fujian, Journal of Beijing Forestry University
	• Applied cluster analysis to classify rice from based on spout year length and body weight
	Applied 1 Sample K S. Test and ana way ANOVA to analyze and compare the variation of the
	• Applied 1-sample K-S fest 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
	• Analyzed the variation of L, W, K and Kwl in different month, different type/age of plantations
May, 2013	Jia Dan-ping ¹ , Hu Ming-xing ¹ , Li Shao-shu ² , <i>On the Framework designing of statistical indicators of</i>
	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	7HANG Ving ¹ LI Hui ¹ LI Shaoshu ² Comparative Analysis of Forest Conservation and Sustainable Forest
Juli, 2015	Management in Ching and Communicative Economics
T 1.	Management in China and Germany, Folesuly Economics
Teaching	Department of Economics, Cornell University Itnaca, USA
Experience	leaching Assistant for Financial Economics, Introductory Microeconomics and Introductory
Aug, 2016-	Macroeconomics.
June, 2021	
Activity	Food and Agriculture Organization of the United Nations Wenchuan. China
Inf 2008-	• Went to areas severely damaged by the earthquake as FAO volunteer to give supports and provide
Sen 2008	necessary foods and materials to refugees broadcasted knowledge of farmland rebuild
Style P	Languages: Native in Chinese. Elvent in English
SKIIIS &	• Languages: Native in Uninese, Fluent in English
Interests	• Programming: SAS (SAS advanced certification holder), R, Python, Matlab, Stata, C++, SPSS, VB,
	etc.
	Interests: Reading and Travelling

* November, 2021