**LI LU**

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Advisor: Zhongwen Liang

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| Educational Background |  |

**Ph.D. in Economics** – Expected in 2023. 5 | University at Albany, State University of New York, Albany, U.S

**Master of Science in Economics** – 2016.12 | Georgia Institute of Technology, Atlanta, U.S

**Bachelor of Science in Economics & Finance** – 2013.9 | Minzu University of China, Beijing, China

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| Research Project |  |

**Random Coefficients Model on the US banking application (Third Year Paper, Present in Oct. 2020)**

* Investigate general heterogeneity among US banking industry from Report of Condition and Income data (Call Report).
* Estimate random coefficients parameter of bank translog cost function & compare to fixed coefficients parameter counterpart.
* Use kernel density estimation method to analyze probability density function on returns to scale, technical change, scale effects and total factor productivity growth & compare those in two different models.
* Conclude negative marginal returns have been found & bank asset has little marginal effect on returns to scale and productivity effects.

**State space model in blue chip data (Term paper, apr. 2020-jun. 2020)**

* Investigate errors terms in a set of multi-horizon forecasts in which forecasts of the same variable are updated along the forecast horizon.
* Decompose forecast errors into three distinct sources of error, horizon specific bias, rational error and noise.
* Compute forecast equations in state-space framework by using Kalman filter to estimate the loading matrix.
* Conclude state process Variance-Covariance Matrix pattern for each corresponding sources of error.

**High Frequency data analysis (Course project, aug. 2018- oct. 2018)**

* Use SARIMA model to estimate high frequency data, such as Producer-Price-Index (PPI).
* Model selection via Akaike Information Critera (AIC) & compare forecasts from best model to actual realizations.

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| Professional Experience |  |

**Data Analytics Intern** | Department of Tax and Finance, Albany, New York 8/2021−present

* Established standards queries and data analytics reports to Office of Data Analytics team
* Collecting information on target groups to further research
* Multi-tasker with ability to prioritize goals
* Following up projects with different teams to optimize policy decisions

**Financial Intern |** Guorong Securities (Investment Banking Division), Beijing, China 1/2017−8/2017

* Drafting and writing prospectus for bond offerings, including but not limited to corporate bonds, financial bond,

and Asset Backed Securitization (ABS) for $250M

* Designing a feasible cash flow model to meet the China Securities Regulatory Commission standard and minimized the risk of bonds and avoided potential losses of $50M
* Coordinating with Law firms, Accounting firms and credit rating organization increased the bond rating to AA+, saving $13M

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| Teaching Experience |  |

**Instructor |** University at Albany, SUNY 5/2021−7/2021

* Principle of Microeconomics (Summer 2021)

**Teaching Assistant |** University at Albany, SUNY 8/2017−5/2021

* Principle of Macroeconomics (Spring 2020 and Fall 2020)

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| Research Contest Award |  |

* Award of Successful Participant, International Mathematical Contest in Modeling (MCM)
* Honorable Mention, National University Startup Contest (Challenge Cup)
* Outstanding Award, Undergraduate Research and Training Program
* Award of Merit, Mathematic Contest in Modeling, Beijng, China

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| Scholarship |  |

* National Encouragement Scholarship, China
* University Scholarship for outstanding academic performance, MUC
* Academic Excellence Scholarship, MUC

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| Skills |  |

**Software**

* Python, R, MATLAB, Visual Basic Advance, MS Office suite, SAS, SPSS-Modeler, E-view, STATA,GIS, Latex

**Language**

* English (Professional Proficiency), Mandarin (Native)

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| Personal |  |

Team player, excellent communication skills, self-motivated, enthusiastic, and a quick learner