LINGYUN (LEONE) QU

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EDUCATION

B.A. in Economics, School of Political Science and Economics, Waseda University   09/2019 – 06/2023(expected)
GPA (WES) 3.85/4.0 Coursework: grad-level Microeconomics and Linear Algebra, Advanced Econometrics
B.A. in Statistics, School of Political Science and Economics, Korea University   03/2021 – 06/2022
Average 93/100 A+ Coursework: Linear Algebra, Probability, Mathematical Statistics, Time Series Analysis

RESEARCH EXPERIENCE

Research Assistant for Professor Nguyen Giang Personal Websitse   03/2022 - 12/2022

- Independently found trustable resources to collect characteristics data. Replicated variable construction codes in papers for model estimation, provided data cleansing and statistical data analysis including visualization. Supported preparation of empirical results for the manuscript and proofreading of theoretical frameworks.

Computational Economics: Deferred Acceptance with Random Separation and Local Search   12/2022

- Introduced random separation rate and secondary market re-matching into the classical Deferred Acceptance Algorithm using Numerical Simulation method (with Python), raised new measurements for average optimal matching for performances evaluation, and increase gender fairness (FE) performance.

Theoretical Research: Optimal Divorce Cost   09/2022

- Inspired by the commitment and discouragement functions of divorce cost, built a 3-period, 3-player normal form model to solve for the optimal divorce cost, conducted nation-wide comparisons and provided policy suggestions.

Empirical Research: Digitalization Spillover Impacts on Japan's Prefectures   11/2022

- Based on Japan's prefecture panel data in 2011-2019, constructed digitalization extent index by Principal Component Analysis, and built digitalization spillover effect index by Directed Arrow Graphs. Estimated digitalization development spillover effects on the economy by Ordinary Linear Regression with year and district fixed effects, explained population and industrial structure mechanisms, and provided extensible policy implications.

Time Series Analysis: ARMA Model Selection and Impulse Response Analysis   11/2021

- Conducted point estimates of autoregressive coefficients, analyzed the error covariance matrix of the reduced form model, plotted impulse response and identified structural parameters, interpreted short and long term influences of inflation rate shock on the growth rates and interest rates with impulse response residual plots.

WORK EXPERIENCE

Strategy Investment Analyst Intern   12/2021 – 06/2022
Meituan (SEHK: 3690)   *Beijing, China*

- Engaged in Delivery Employee Incentive Bonus System Design, composed self-reported risks and the subjectively tracked behaviors into 16 metrics using Entropy method, applied behavior economics model to designed salary packages based on clustering regression to prevent moral hazard and adverse selection.

Consulting Analyst Intern   12/2019– 06/2020
Nomura Research Institute   *Tokyo, Japan*

- Benchmarked the energy market in China and developed a competitive landscape analysis including current geographical distribution and development plans. Consolidated key data and indicators of client companies through official sources and cold calls, identified major factors affecting strategic growth with internal database statistics and assisted in developing targeted proposals.

SKILLS (NIH PROFICIENCY SCALE)

Technical Skills   Python(4), R(4), Matlab(4), Stata(4), Databases MySQL(4), Excel VBA(4), Latex(4), SAS(3)
Languages   Mandarin (5), English (5, GRE V169+Q170, TOEFL 110), Japanese (4) and Korean (4)