Shotaro Beppu

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Education	
Massachusetts Institute of Technology (MIT) MASC IN DATA, ECONOMICS AND DEVELOPMENT POLICY • Capstone supervisor: Dave Donaldson, Tobias Salz • 4.8/5.0	'23/08
The University of Tokyo BACHELOR IN ENGINEERING (SYSTEMS) • Advisor: Yasuyuki Sawada (Econ), Akihiko Matsui (Econ), Ryuichi Shibasaki (Eng) • 3.85/4.0 (1st in program of 129 students)	'23/03
Research Papers	
Ongoing	
Technology with unequal gains: Steamship and globalization UNDERGRADUATE THESIS • Digitize shipping data in historical tables using deep learning (Graph Neural Network) • Analysis of transition from sailing to steamships on shipping, trade, and growth	pdi
Diffusion of war through international arms trade INDEPENDENT PROJECT ADVISED BY YASUYUKI SAWADA AND AKIHIKO MATSUI (UNIV. TOKYO) • Formulate a model of international arms trade and probability of conflict • Estimate effect of weapons on war using end of conflict in other regions as an instrument	pdi
Stability of trading blocs Two-week research project advised by George Charlson (Univ. Cambridge) • Formulate a network model to test stability of trading blocs • Simulate possible paths of trading blocs	pdi
Uncovering the border-crossing cost in transportation GROUP PROJECT • Fieldwork in the Philippines investigating tricycle (taxi) behavior • Investigate the effect of zoning by tricycle groups on price	
Published	
Beppu, S., Fujii, D., Kubota, H., Machi, K., Maeda, Y., Nakata, T., & Shibuya, H. 2023. Cross-regional heterogeneity in and economic outcomes during the COVID-19 pandemic: An analysis of Japan. <i>Journal of the Japanese and Intional Economies</i> , 70. pdf	
Thu, M. K., Beppu, S., Yarime, M., & Shibayama, S. 2022. Role of machine and organizational structure in science. <i>PLO</i> : 17(8). pdf	S ONE
Research Experience	
Research Assistant Advisor: Dave Donaldson (MIT) • Analysis of crop productivity and trade • Analysis of agglomeration effect in the Midwest	'23

Research	Assistant
I/C3CalCII	Assistant

ADVISOR: TOBIAS SALZ (MIT)

Summer '23

- Analysis of RCT switching some user's default search engine
- Estimate effect of incumbency and default switch

Research Assistant

ADVISOR: YASUYUKI SAWADA (UNIV. TOKYO)

'21-'22

- Replication of multiple RCTs in education and conduct additional tests
- Analyze satellite data to construct road network and analyze weather
- Fieldwork in the Philippines

Research Assistant

ADVISOR: TAISUKE NAKATA (UNIV. TOKYO)

'21-'22

- Weekly projection of COVID-19 statistics using macro-epidemiological model
- Estimate value of statistical life using the pandemic
- Investigate effect of restriction policies on restaurants and diffusion of the virus

Professional Experience _____

UChicago Urban Labs E&E Lab

PROJECT ASSOCIATE '23/09-Present

- Create ML algorithm and analyse satellite imagery to predict pollution violation
- Analysis of mobile ping data to understand short and long term effect of disasters

U-Tokyo Matsuo Lab

ML engineer '21/10-'22/12

- Create ML algorithm to predict viewers
- Estimate the effect of commercials on viewers
- Implement optimization problem for commercial allocation

World Bank DIME

<u>'21/06-'22/02, '22/06-'22/08</u>

- Conduct NLP to clean and extract variables from surveys
- Use LLM to vectorize judicial texts for bias analysis
- · Scrape Google trends data to investigate Ramadan effect on personal behavior

The University of Tokyo Market Design Center (UTMD)

INTERN '22/08-'22/12

• Implement serial dictatorship matching algorithms for university's study abroad program

UTokyo Economic Consulting Inc. (UTEcon)

INTERN '22/02-'22/04

· Analyze price fluctuation in Japan using commodity data

Ministry of Economy, Trade and Industry, Japan

Intern '20/08

Policy analysis on electrical vehicles

Awards & Fellowships _

- 2023 **Department Award for the Department of Engineering**, The University of Tokyo **Scholarship for Mid- to Long-Term Studies**, Friends of UTokyo, Inc
- 2021 **Scholarship for Short-Term Studies**, Friends of UTokyo, Inc **GLP-GEFIL Scholarship**, The University of Tokyo

Other Education -**UC Berkeley** MATH 104, INTRODUCTION TO ANALYSIS (A) Summer '21 • Funded by Friends of UTokyo, Inc **Cambridge University** PEMBROKE ONLINE SUMMER RESEARCH PROGRAMME (FIRST) Summer '21 • Funded by GLP-GEfIL Scholarship MITx MicroMasters Program STATISTICS AND DATA SCIENCE (A) '21 • Probability, Statistics, ML, and Statistical Modeling MITx MicroMasters Program '21 DATA, ECONOMICS, AND DEVELOPMENT POLICY (A) • Online segment of MASc in Data, Economics, and Development Policy at MIT Other Information _____

LANGUAGE

Japanese (native), English (TOEFL 112, IELTS 8.0), French (basic)

PROGRAMMING

R, Python, STATA, MATLAB, Java

OTHER INTERESTS

Football (Soccer), Rowing, Cycling Political Philosophy, Ancient history