
MASAHIRO YOSHIDA

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Last updated: March 18, 2024

EDUCATION

- 2020 **PhD candidate in Economics** (*May 2020*)
Department of Economics, Washington University in St. Louis

Thesis: *Essays on Automation and Political Economy*
Advisors: George-Levi Gayle (*Chair*), Alexander Monge-Naranjo
- 2016 *M.A. in Economics*, Washington University in St. Louis
- 2014 *M.A. in Economics*, the University of Tokyo
- 2010 *B.A. in Economics*, the University of Tokyo

EMPLOYMENT

- Sep.2020-present *Associate professor* (tenure track; U.S. equivalent of Assistant Professor), Department of Political Science and Economics, Waseda University
- Sep.2023-present Research member, Institute for Empirical Research in Organizational Economics, Waseda University
- 2013 *Research Assistant for Michal Fabinger*, the University of Tokyo
- 2010-11 *Business Analyst*, Strategy Group, Management Consulting, Accenture, Tokyo

RESEARCH INTERESTS

Labor economics, Applied microeconomics
(key words: immigration; automation; climate change; gender)

WORKING PAPERS

Climate Change and Outdoor Labor Markets: the Rise of Dropouts of Adult Males

slides (2024 Jan) short paper

[Abstract] Since 1970s, male labor force participation in developed economies has ubiquitously declined. I argue that global warming fueled dropouts of prime-aged males, by harming the males' traditional advantage of working outdoors. Interacting regional prevalence of outdoor jobs and rich regional variations of climate change across U.S. commuting zones constructed from granular weather data during 1970-2019, I find that 10 more hot days (i.e., mean temperature of 75F and above) in a decadal baseline

on average generated 200,000 dropouts, with limited transition to an indoor sector. Climate change accounted for 5-10% of increased dropouts of prime-aged males during the period, with far smaller effects on females, only accounting for 3-5% of outdoor workers. The effect is higher if a male is less-educated younger; if hot days are non-rainy and humid; if his house has a residential air conditioner and/or TV set. I find climate change hurt compensating wage differentials of working outdoors, after controlling for survivors' demographics. The finding suggests that climate change exacerbates regional socio-economic inequality.

Immigration, Robots and American Life

paper

[Abstract] Foreign labor represents a growing fraction of risky occupations that appear to be close substitutes of industrial robots. I investigate how dependency on immigrants interacted with robot adoption shaped a workplace injury risk in high-hazard sectors. Associating a wave of unskilled immigrants and workplace injuries across U.S. industries during 1992-2019, I find that immigrant workers substantially replaced native fatalities by crowding out natives out of risky jobs. Associated with cross-industry investment of industrial robots, I also find that robot installation dramatically reduced injury risk, but the aggregate nationwide risk remains unabated from poor investments to riskier labor-intensive sectors (e.g. agriculture and construction). Then, I test a hypothesis that immigration inflow impeded the automation and preserved an injury risk for remaining laborers, including natives. Over-dependency on foreign labor may preserve the risky technology generating a social cost (e.g., disabilities; usage of opioids).

Immigration, Automation and the U.S. Cities: A Task-based Framework for Welfare Analysis (Job Market Paper)

Earlier theoretical works

Using a Soft Deadline to Counter Monopoly (*R&R at Journal of Industrial Economics*)

Master's Thesis in University of Tokyo, Advisor: *Michihiro Kandori*

Deadline Credibility, Protracted Trades and Market Efficiency (*Under review*)

Laboratory experiment Advisor in Missouri Social Science Experimental Laboratory (MISSEL): *Brian Rogers*

WORK IN PROGRESS

Climate Change and the Demise of Marriage of the Millennials slides

Climate Change and Declining Labor Share *with Xincheng Qiu (Arizona State)*

Singularity, Seniority and Productivity: Evidence from Japanese Chess Grandmasterships: 1968-2022
with Hideo Owan (Waseda) and Takuya Takahashi (Waseda)

CONFERENCE AND SEMINARS

- 2024 Keio (applied micro); Sophia; Tokyo Labor Economics Workshop (upcoming); Japanese Economic Association Spring Conference (upcoming)
- 2023 Waseda (applied micro); Kyoto (applied micro); Hitotsubashi (Trade and Urban); GRIPS (empirical micro); Kyoto (Urban)
- 2020 Waseda University; National University of Singapore (NUS) Business School; NUS Lee Kuan Yew School of Public Policy; Rice University; Hong Kong University of Science and Technology, Business School
- 2019 Econometric Society European Winter Meeting, the Erasmus University, Rotterdam; Urban Economic Association Conference, Federal Reserve Bank of Philadelphia, Philadelphia; Dissertation Competition, McDonnell Academy, Washington University, St. Louis
- 2018 NBER Young Scholars Workshop on the Economics of Artificial Intelligence, the University of Toronto, Toronto
- 2018 Urban Economic Association Conference, Columbia University, New York
- 2015 Midwest Economic Theory Conference, Ohio State University, Columbus
- 2014 Japanese Economic Association Conference (poster), Kyoto
- 2013 Osaka (Applied Micro Workshop); Asian Leaders Forum Workshop

RESEARCH GRANT

- 2023 Grants-in-Aid for Scientific Research (KAKENHI) from Japan Society for Promotion of Science
- 2023 Early career grant from Waseda Univ.
- 2022 Special project grant from Waseda Univ.

TEACHING EXPERIENCES

- Sep. 2020-present Population Economics (Labor Economics) at undergraduate level (2020Fall, 2021-2023 Spring & Fall, 2024Spring)
- Sep. 2020-present Population Economics (Labor Economics) at graduate level (2020Fall, 2021Fall, 2022Fall, 2023Spring, 2024Spring)
- Apr. 2022-present Causal inference for applied micro economics (2022Spring, 2023Fall, 2024Fall)
- Apr. 2023-present Intermediate Seminar on causal inference (2023Spring, 2024Fall)
- Sep. 2020-present Basic Seminar (for college freshmen; 2020Fall, 2021Fall, 2022Fall, 2023Fall, 2024Fall)
- Sep. 2020-Jul. 2022 Academic Literacy Seminar (2020Fall, 2021Spring, 2022Spring)
- 2018 *Teaching Assistant* for Health Economics (undergraduate), for Grace Johnson
- 2018 *Teaching Assistant* for Introductory Microeconomics (undergraduate), for Brian Rogers

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- 2013 *Teaching Assistant* for International Trade (graduate, the University of Tokyo) for *Michal Fabinger*
- 2013 *Teaching Assistant* for Game Theory (graduate and undergraduate, the University of Tokyo) for *Akihiko Matsui*

BOOKS

- 2014 “Methodology for Group Collaboration” (website link in Japanese), East Economics Press 2023, Chinese, Shandong Friendship Publishing House
- 2010 “Case Studies for Problem Solving” (website link in Japanese), East Economics Press, *with Atsushige Kimoto* 2016, Taiwanese, Sanren Press 2023, Chinese, Post Wave Publishing Consulting
- 2009 “Introduction to the Fermi Estimation” (website link in Japanese), East Economics Press, *with Shunsuke Wakita* 2011, Korean, Eiji Press 2016, Taiwanese, Sanren Press 2022, Chinese, Post Wave Publishing Consulting

SCHOLARSHIP

- Fall 2019 Dissertation year fellowship from Washington University
- Sep. 2014-Aug. 2019 Scholarship from McDonnell International Scholars Academy
- Jul. 2014-Jun. 2019 Nakajima Memorial International Scholarship

REFEREE SERVICE

- list: Waseda Dissertation Competition; Azusa Ono Memorial Award

COMMUNITY SERVICE

- Sep. 2020-present *Co-organizer*, Applied micro workshop at Waseda *with Yuta Toyama, Hideo Owan, Haruko Noguchi*
- Apr. 2021-present *Co-organizer*, Ph.D. workshop at Waseda
- mentees: Ritsu Kitagawa (2021Spring), Yijie Tao (2021Fall), Aline Mortha (2022Spring), Yayue Xiao (2022Fall), Haonan Li, Pengsheng Zhao (2023Spring / Fall)
- Dec. 2022 lecture, Nakajima Memorial International Scholarship
- 2013 *Co-organizer*, Brown Bag Workshop, *with Michal Fabinger*, the University of Tokyo

REFERENCE SERVICE

Students: Yeonjoo Kim (2022), Mingtong Yang (2022), Taiki Makino (2023), Young Zhu (2024)

PROGRAMMING SKILLS

Proficient: R, Amazon Web Service

Knowledge: Stata, Matlab, Julia, Python

LANGUAGES

English (fluent), Japanese (native)

REFERENCES

George-Levi Gayle (Primary advisor)
Department of Economics
Washington University in St. Louis
St. Louis, MO 63130
ggayle@wustl.edu

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