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RESEARCH POSITIONS

Senior Lecturer (Assistant Professor), Department of Economics, National University of Mongolia, Ulaanbaatar, Mongolia, February 2026 – Present

Research Scientist, AI Lab, CyberAgent, Inc., Tokyo, Japan, August 2023 – August 2025

Postdoctoral Scholar, Golub Capital Social Impact Lab, Stanford Graduate School of Business, Stanford, CA, September 2021 – May 2023

AFFILIATIONS

Research Affiliate, AI Lab, CyberAgent, Inc., Tokyo, Japan, August 2025 – Present

Research Fellow, The Economic Institute, National University of Mongolia, Ulaanbaatar, Mongolia, October 2025 – Present

EDUCATION

Ph.D., Economics, Boston University, Boston, MA, 2021
   Dissertation Title: *Essays on the Econometric Analysis of Treatment Assignment Rules and Altruistic Preferences*
   Dissertation Committee: Hiroaki Kaido, Iván Fernández-Val, Ching-to Albert Ma and Jean-Jacques Forneron

B., Commerce and Management, Hitotsubashi University, Tokyo, Japan, 2014

FIELDS OF INTEREST

Econometrics, Machine Learning, Applied Microeconomics

PUBLICATIONS

Yasui, S., Oka, T., Byambadalai, U., & Oishi, Y. (2026), Distributional treatment effects of content promotion: evidence from an ABEMA field experiment, ***The Japanese Economic Review***

Byambadalai, U., Hirata, T., Oka, T., & Yasui, S. (2025). Beyond the Average: Distributional Causal Inference under Imperfect Compliance. In *Proceedings of the 39th International Conference on Neural Information Processing Systems* (**NeurIPS 2025)**

Byambadalai, U., Hirata, T., Oka, T., & Yasui, S. (2025). On efficient estimation of distributional treatment effects under covariate-adaptive randomization. In *Proceedings of the 42nd International Conference on Machine Learning* **(ICML 2025)** (pp. 6102–6125). Proceedings of Machine Learning Research.

Oka, T., Yasui, S., Hayakawa, Y., & Byambadalai, U. (2025). Regression adjustment for estimating distributional treatment effects in randomized controlled trials. *Econometric Reviews*, 1-16.

Byambadalai, U., Oka, T., & Yasui, S. (2024). Estimating distributional treatment effects in randomized experiments: machine learning for variance reduction. In *Proceedings of the 41st International Conference on Machine Learning* **(ICML 2024)** (pp. 5082–5113). Proceedings of Machine Learning Research.

Byambadalai, U., Ma, C. T. A., & Wiesen, D. (2023). Changing preferences: An experiment and estimation of market-incentive effects on altruism. *Journal of Health Economics*, *92*, 102808.

WORKING PAPERS

Athey, S., Byambadalai, U., Cersosimo, M., Koutout, K., & Nath, S. (2025). The Heterogeneous Impact of Changes in Default Gift Amounts on Charitable Giving. *Revise & Resubmit, **The Economic Journal***

Athey, S., Byambadalai, U., Hadad, V., Krishnamurthy, S. K., Leung, W., & Williams, J. J. (2022). Contextual bandits in a survey experiment on charitable giving: Within-experiment outcomes versus policy learning. *Revise & Resubmit**, Statistical Science***

Akiyama, S., Yanagisawa, H., Oka, T., & Byambadalai, U. (2025) Machine Learning-Based Variance Reduction of Survival Function Estimators, *Submitted*

Hirata, T., Byambadalai, U., Oka, T., Yasui, S., & Uto, S. (2025). Efficient and Scalable Estimation of Distributional Treatment Effects with Multi-Task Neural Networks, *Submitted*

Byambadalai, U. (2022). Identification and inference for welfare gains without unconfoundedness.

WORK IN PROGRESS

Byambadalai, U., Oka, T., Okamoto, Y., & Yasui, S., Distributional synthetic controls with bunching (*draft available upon request*)

PRESENTATIONS
International Conference on Machine Learning, Vancouver, Canada, 2025
International Conference on Machine Learning, Vienna, Austria, 2024
Microeconometrics Class of 2020 and 2021 Conference, Duke University, 2023
University of Mannheim, 2021
University of Surrey, 2021

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University of Bristol, 2021
Institute of Social and Economic Research, Osaka University, 2021
Econometric Society/Bocconi University World Congress, 2020
European Economic Association Annual Congress, 2020
BU-BC Joint Workshop in Econometrics, 2019, 2020

FELLOWSHIPS AND AWARDS
Research Grant, Institute for Economic Development, Boston University, 2017
Japanese Government Scholarship for Undergraduate Studies, 2009 - 2014
Academic Achievement Award, Hitotsubashi University, 2013

OTHER WORK EXPERIENCE
Economist, Chinggis Khaan Sovereign Wealth Fund, Ulaanbaatar, Mongolia, August 2025 – December 2025
Research Assistant for Hiroaki Kaido, Boston University, Boston, MA, Fall 2017 - Spring 2021
Research Assistant for Pierre Perron, Boston University, Boston, MA, Summer 2019

TEACHING EXPERIENCE
Instructor, Introductory Microeconomic Analysis, Boston University, Summer 2018
Teaching Fellow, Introductory Microeconomic Analysis, Boston University, Fall 2015 - Spring 2017
Teaching Assistant, Advanced Microeconomics (M.A. level), Hitotsubashi University, Spring 2014

LANGUAGES
Mongolian (native), English (fluent), Japanese (fluent)

COMPUTER SKILLS: Python, R, SQL, Stata, Matlab

REFERENCES

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