

# **UNDRAL BYAMBADALAI**

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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*)

Byambadalai, U., Shiino, H., & Yasui, S., Uplift modeling in stratified randomized experiments

## **PRESENTATIONS**

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

### **Professor Susan Athey**

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Stanford University  
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### **Professor Hiroaki Kaido**

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### **Professor Ching-to Albert Ma**

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### **Professor Iván Fernández-Val**

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### **Professor Jean-Jacques**

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