

Masatoshi Uehara.

uehara_m@g.harvard.edu <https://masatoshiuehara.com/>

Personal Information

Date of Birth: 07/29/1994

Nationality: Japanese. English; TOEFL 111(R 29 L 29 S 25 W 28)

Education

2013-2017 Department of applied mathematics and information science, The University of Tokyo

2017- Department of Statistics, PHD program, Harvard University

Research Interests

Reinforcement learning, Causal inference, Online learning

Publications (* indicates I am the corresponding author or co-first author)

Statistically Efficient Off-Policy Policy Gradients

Kallus, N. Uehara, M*. <https://arxiv.org/abs/2002.04014>

In Proceedings of the 33rd International Conference on International Conference (ICML 2020)

Minimax Weight and Q-Function Learning for Off-Policy Evaluation

Uehara, M. , Huang, J. Jiang, N. <https://arxiv.org/abs/1910.12809.pdf>

In Proceedings of the 33rd International Conference on International Conference (ICML 2020)

Double Reinforcement Learning for Efficient Off-Policy Evaluation in Markov Decision Processes

Kallus, N. Uehara, M*. <https://arxiv.org/pdf/1908.08526.pdf>

In Proceedings of the 33rd International Conference on International Conference (ICML 2020)

Imputation Estimators for Unnormalized Models with Missing Data

Uehara, M. Matsuda, T. Kim, J.W. <https://arxiv.org/pdf/1903.03630.pdf>

In 23rd International Conference on Artificial Intelligence and Statistics (AISTATS 2020)

Unified Estimation Framework for Unnormalized Models with Statistical Efficiency

Uehara, M. Kanamori, T. Takenouchi, T. Matsuda, T. <https://arxiv.org/pdf/1901.07710.pdf>

In 23rd International Conference on Artificial Intelligence and Statistics (AISTATS 2020)

Intrinsically Efficient, Stable, and Bounded Off-Policy Evaluation for Reinforcement Learning

Kallus, N. Uehara, M*. <https://arxiv.org/abs/1906.03735>

In Thirty-third Conference on Neural Information Processing Systems (NeurIPS 2019)

Preprints

Doubly Robust Off-Policy Value and Gradient Estimation for Deterministic Policies

Kallus, N. Uehara, M*.

Efficient Evaluation of Natural Stochastic Policies in Offline Reinforcement Learning

Kallus, N. Uehara, M*.

Off-Policy Evaluation and Learning for External Validity under a Covariate Shift

Kato, T. Uehara, M*. Yasui, Shota. <https://arxiv.org/abs/2002.11642>

Localized Debiased Machine Learning: Efficient Estimation of Quantile Treatment Effects, Conditional Value at Risk, and Beyond

Kallus, N. Mao, X. Uehara, M. <https://arxiv.org/abs/1912.12945>

Efficiently Breaking the Curse of Horizon: Double Reinforcement Learning in Infinite-Horizon Processes

Kallus, N. Uehara, M*. <https://arxiv.org/abs/1909.05850.pdf>

Information Criteria for Non-normalized Models

Matsuda, T. Uehara, M. Hyvarinen, A. <https://arxiv.org/pdf/1905.05976.pdf>

Semiparametric Response Model with Nonignorable Nonresponse

Uehara, M. Kim, J.W. <https://arxiv.org/pdf/1810.12519.pdf>

Analysis of Noise Contrastive Estimation from the Perspective of Asymptotic Variance

Uehara, M. Matsuda, T. Komaki, F. <https://arxiv.org/abs/1808.07983.pdf>

Generative Adversarial Nets from a Density Ratio Estimation Perspective,

Uehara, M. Sato, I. Suzuki, M. Nakayama, K. Matsuo, Y. <https://arxiv.org/abs/1610.02920.pdf>

Coding skills

Python, C++, R