

Kyohei Okumura

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Contact Information	Grainger Hall, Room 5281 975 University Ave. Madison, WI 53706	kyohei.okumura@gmail.com https://okuchap.github.io/ Citizenship: Japan
Employment	Wisconsin School of Business, University of Wisconsin-Madison Assistant Professor of Risk and Insurance	2025 – present
Education	Northwestern University Ph.D. in Economics M.A. in Economics	2025 2021
	The University of Tokyo M.A. in Economics B.A. in Economics	2019 2017
Peer-Reviewed Articles	"An Economic Analysis of Difficulty Adjustment Algorithms in Proof-of-Work Blockchain Systems" with Shunya Noda and Yoshinori Hashimoto Accepted at <i>International Economic Review</i> , 2025	
	"Algorithm Design: A Fairness-Accuracy Frontier" with Annie Liang, Jay Lu, and Xiaosheng Mu Accepted at <i>Journal of Political Economy</i> , 2024	
Peer-Reviewed Conference Proceedings	"Evaluating the Efficiency of Regulation in Matching Markets with Distributional Disparities" with Kei Ikegami, Atsushi Iwasaki, and Akira Matsushita <i>Proceedings of the 26th ACM Conference on Economics and Computation</i> , 2025. Selected as the "Exemplary Empirics Track Paper"	
	"Counterfactual Learning with General Data-generating Policies" with Kohei Yata, Yusuke Narita, and Akihiro Shimizu <i>Proceedings of the 37th AAAI Conference on Artificial Intelligence</i> , 2023.	
	"A Simple, Fast, and Safe Mediator for Congestion Management" with Kei Ikegami and Takumi Yoshikawa <i>Proceedings of the 34th AAAI Conference on Artificial Intelligence</i> , 2020.	
	"An Economic Analysis of Difficulty Adjustment Algorithms in Proof-of-Work Blockchain Systems" with Shunya Noda and Yoshinori Hashimoto <i>Proceedings of the 21st ACM Conference on Economics and Computation</i> , 2020.	
Working Papers	"Robust Online Learning with Private Information" "Testing the Fairness-Accuracy Improvability of Algorithms" with Eric Auerbach, Annie Liang, and Max Tabord-Meehan Revision invited at the <i>Journal of Political Economy</i>	
	"Evaluating the Efficiency of Regulation in Matching Markets with Distributional Disparities" with Kei Ikegami, Atsushi Iwasaki, and Akira Matsushita Extended abstract at EC'25	
Fellowships & Awards	Exemplary Empirics Track Paper, EC'25 The Nakajima Foundation Overseas Scholarship Grant-in-Aid for JSPS Fellows, Japan Society for the Promotion of Science	2025 2020–2025 2020

	MITOU Advanced, Information-technology Promotion Agency, Japan Best Student Paper Award, IEICE Technical Committee on Theoretical Foundations of Computing 2019	2019
Teaching Experience	Teaching Assistant, Northwestern University ECON 313: Economics of Data Lecturer, The University of Tokyo Mathematics Review for Incoming Master Students Teaching Assistant, The University of Tokyo Microeconomics II (Graduate) Game Theory (Undergraduate) Microeconomics I (Graduate) Mechanism Design (Undergraduate)	2025 2019 2019 2019 2019 2018 2017
Research Experience	Research Assistant, Professor Bruno Strulovici, Northwestern University Research Assistant, Professor Annie Liang, Northwestern University Research Assistant, The University of Tokyo Market Design Center Research Internship, 2019 RIKEN R-CCS HPC Computational Science Internship Program Research Assistant, Professor Daisuke Oyama Research Assistant, Center for Research and Education in Program Evaluation Research Assistant, Prof. Kohei Kawaguchi, Prof. Toshifumi Kuroda, and Prof. Takanori Ida	2022 2021–2022 2020–present 2019 2019–2020 2017–2020 2017
Conferences and Seminars	AY2024–2025 <i>Conferences:</i> The 23rd Annual International Industrial Organization Conference (IIOC), The 26th ACM Conference on Economics and Computation (EC'25), Stanford Institute for Theoretical Economics (SITE) <i>Seminars:</i> University of Wisconsin-Madison (Risk and Insurance)	
	AY2022–2023 <i>Conferences:</i> Econometric Society Summer School in Tokyo	
	AY2019–2020 <i>Seminars:</i> The 5th Workshop on Self-Organization and Robustness of Evolving Many-Body Systems (RIKEN Center for Computational Science), University of Tokyo <i>Conferences:</i> The 21st ACM Conference on Economics and Computation (EC'20), Spring Meeting of Japanese Economic Association, IEICE Technical Committee on Theoretical Foundations of Computing, The 34th AAAI Conference on Artificial Intelligence (AAAI-20)	
	AY2018–2019 <i>Seminars:</i> University of Tokyo, Foundations of Computing Seminar (Kyushu University) <i>Conferences:</i> Econometric Society Summer School in Sapporo, IEICE Technical Committee on Theoretical Foundations of Computing	
Languages	English (fluent), Japanese (native)	