
Contact Information	Grainger Hall, Room 5281 975 University Ave. Madison, WI 53706	kyohei.okumura@gmail.com https://okuchap.github.io/
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 <i>International Economic Review</i> , Vol. 67 (1), Pages 259–285, February 2026 “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” <i>Proceedings of the 8th International Workshop on Matching Under Preferences</i> , 2026. “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.	
Invited Publication	“Regulating Matching Markets with Distributional Constraints” with Kei Ikegami, Atsushi Iwasaki, and Akira Matsushita <i>SIGecom Exchanges</i> , Vol. 23 (2), Pages 51–58, 2026.	
Working Papers	“Robust 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,
Grants & Awards**

AI Hub for Business Grant, “Designing Robust Learning Algorithms for Economic Environments” 2026
 Exemplary Empirics Track Paper, EC’25 2025
 The Nakajima Foundation Overseas Scholarship 2020–2025
 Grant-in-Aid for JSPS Fellows, Japan Society for the Promotion of Science 2020
 MITOU Advanced, Information-technology Promotion Agency, Japan 2019
 Best Student Paper Award, IEICE Technical Committee on Theoretical Foundations of Computing 2019

**Conferences and
Seminars****AY2025–2026**

Conferences: AI, Economics, and Business Conference, MATCH-UP 2026
Seminars: Queen’s University, University of Wisconsin–Madison, ERATO Meeting

AY2024–2025

Conferences: The 23rd Annual International Industrial Organization Conference (IIOC),
 The 26th ACM Conference on Economics and Computation (EC’25), Stanford Institute for
 Theoretical Economics (SITE)
Seminars: University of Wisconsin–Madison (Risk and Insurance)

AY2022–2023

Conferences: Econometric Society Summer School in Tokyo

AY2019–2020

Seminars: The 5th Workshop on Self-Organization and Robustness of Evolving Many-Body
 Systems (RIKEN Center for Computational Science), University of Tokyo
Conferences: 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 AAI Conference on Artificial Intelligence (AAAI-20)

AY2018–2019

Seminars: University of Tokyo, Foundations of Computing Seminar (Kyushu University)
Conferences: Econometric Society Summer School in Sapporo, IEICE Technical Committee
 on Theoretical Foundations of Computing

**Professional
Activities**

Referee for American Economic Review, Review of Economic Studies, Econometrica, Oxford
 Economic Papers, and Journal of Political Economy

Reviewer for AISTATS, EC’26

Teaching**University of Wisconsin–Madison**

GENBUS 656: Foundations of Statistical Learning for Business Analytics Fall 2025

Languages

English (fluent), Japanese (native)