

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

## Teaching Experience

Teaching Assistant, Northwestern University  
 ECON 313: Economics of Data 2025  
 Lecturer, The University of Tokyo  
 Mathematics Review for Incoming Master Students 2019  
 Teaching Assistant, The University of Tokyo  
 Microeconomics II (Graduate) 2019  
 Game Theory (Undergraduate) 2019  
 Microeconomics I (Graduate) 2018  
 Mechanism Design (Undergraduate) 2017

## Research Experience

Research Assistant, Professor Bruno Strulovici, Northwestern University 2022  
 Research Assistant, Professor Annie Liang, Northwestern University 2021–2022  
 Research Assistant, The University of Tokyo Market Design Center 2020–present  
 Research Internship, 2019 RIKEN R-CCS HPC Computational Science Internship Program 2019  
 Research Assistant, Professor Daisuke Oyama 2019–2020  
 Research Assistant, Center for Research and Education in Program Evaluation 2017–2020  
 Research Assistant, Prof. Kohei Kawaguchi, Prof. Toshifumi Kuroda, and Prof. Takanori Ida 2017

## Conferences and Seminars

**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 AAAI 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

## Languages

English (fluent), Japanese (native)