

**Office Contact Information**

Department of Economics  
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**Employment:**

Professor, Faculty of Economics, University of Tokyo, 2022-now  
Professor, Department of Economics, National University of Singapore, 2016-now  
Head of Department of Economics (2019-2022)  
Associate Professor, Department of Economics, National University of Singapore, 2012-2015  
Assistant Professor, Department of Economics, Princeton University, 2007-2012

**Education:**

Ph.D., Economics, Harvard University, 2007  
M.A., Economics, University of Tokyo, 2002  
B.A., Economics, University of Tokyo, 2000

**Teaching Experience:**

Intermediate Microeconomics (U)  
Advanced Microeconomics (U)  
Game Theory (U, G)  
Mathematics for Economists (G)

**Research Areas:** microeconomic theory, game theory

**Publications:**

“Robust Refinement of Rationalizability with Arbitrary Payoff Uncertainty” (with Yi-Chun Chen and Siyang Xiong). Forthcoming in *Games and Economic Behavior*.

“Robust Equilibrium Outcomes in Sequential Games under Almost Common Certainty of Payoffs” (with Olivier Tercieux). *Journal of Economic Theory*, 188, July 2020, 105068.

“Generalized Belief Operator and Robustness in Binary-Action Supermodular Games” (with Daisuke Oyama). *Econometrica* 88 (2), March 2020, pp. 693-726.

“Non-Equivalence between All and Canonical Elaborations.” *Japanese Economic Review* 71, January 2020, pp. 43-57. JER Best Article Award.

“Rationalizable Strategies in Random Games” (with Ting Pei). *Games and Economic Behavior* 118, November 2019, pp. 110-125.

“Interdependent Preferences and Strategic Distinguishability” (with Dirk Bergemann and Stephen Morris). *Journal of Economic Theory* 168, March 2017, pp. 329-371.

“How Fast Do Equilibrium Payoff Sets Converge in Repeated Games?” (with Johannes Hörner). *Journal of Economic Theory* 165, September 2016, pp. 332-359.

“Truthful Equilibria in Dynamic Bayesian Games” (with Johannes Hörner and Nicolas Vieille). *Econometrica* 83 (5), September 2015, pp. 1795-1848.

“Contagion and Uninvadability in Local Interaction Games: The Bilingual Game and General Supermodular Games” (with Daisuke Oyama). *Journal of Economic Theory* 157, May 2015, pp. 100-127.

“The Robust Selection of Rationalizability” (with Yi-Chun Chen and Siyang Xiong). *Journal of Economic Theory* 151, May 2014, pp. 448-475.

“On the Limit Perfect Public Equilibrium Payoff Set in Repeated and Stochastic Games” (with Johannes Hörner and Nicolas Vieille). *Games and Economic Behavior* 85, May 2014, pp. 70-83.

“Coordination Failure in Repeated Games with Private Monitoring” (with Takuo Sugaya). *Journal of Economic Theory* 148 (5), September 2013, pp. 1891-1928.

“On the Surjectivity of the Mapping between Utilities and Choice Probabilities” (with Andriy Norets). *Quantitative Economics* 4 (1), March 2013, pp. 149-155 (Notes and Comments).

“A Folk Theorem for Repeated Games with Unequal Discounting” (with Bo Chen). *Games and Economic Behavior* 76 (2), November 2012, pp. 571-581.

“Efficient Auctions and Interdependent Types” (with Dirk Bergemann and Stephen Morris). *American Economic Review Papers and Proceedings* 102 (3), May 2012, pp. 319-324.

“Robust Rationalizability under Almost Common Certainty of Payoffs” (with Stephen Morris and Olivier Tercieux). *Japanese Economic Review* 63 (1), March 2012, pp. 57-67.

“On the Relationship between Robustness to Incomplete Information and Noise-Independent Selection in Global Games” (with Daisuke Oyama). *Journal of Mathematical Economics* 47 (6), December 2011, pp. 683-688.

“Perfect Foresight Dynamics in Binary Supermodular Games” (with Daisuke Oyama and Josef Hofbauer). *International Journal of Economic Theory* 7 (3), September 2011, pp. 251-267.

“Recursive Methods in Discounted Stochastic Games: An Algorithm for  $\delta \rightarrow 1$  and a Folk Theorem” (with Johannes Hörner, Takuo Sugaya, and Nicolas Vieille). *Econometrica* 79 (4), July 2011, pp. 1277-1318.

“Robustness to Incomplete Information in Repeated Games” (with Sylvain Chassang). *Theoretical Economics* 6 (1), January 2011, pp. 49-93.

“Heterogeneous Beliefs and Local Interaction in Stochastic Fictitious Play” (with Drew Fudenberg). *Games and Economic Behavior* 71 (1), January 2011, pp. 100-120.

“Community Enforcement when Players Observe Partners' Past Play.” *Journal of Economic Theory* 145 (1), January 2010, pp. 42-62.

“Monotone and Local Potential Maximizers in Symmetric 3x3 Supermodular Games” (with Daisuke Oyama). *Economics Bulletin* 29 (3), August 2009, pp. 2096-2108.

“p-Dominance and Perfect Foresight Dynamics” (with Fuhito Kojima). *Journal of Economic Behavior and Organization* 67 (3-4), September 2008, pp. 689-701.

“Monotone Methods for Equilibrium Selection under Perfect Foresight Dynamics” (with Daisuke Oyama and Josef Hofbauer). *Theoretical Economics* 3 (2), June 2008, pp. 155-192.

“The Number of Pure Nash Equilibria in a Random Game with Nondecreasing Best Responses.” *Games and Economic Behavior* 63 (1), May 2008, pp. 328-340.

“Perfect Foresight Dynamics in Games with Linear Incentives and Time Symmetry.” *International Journal of Game Theory* 37 (1), April 2008, pp. 15-38.

“Multi-Sender Cheap Talk with Restricted State Spaces” (with Attila Ambrus). *Theoretical Economics* 3 (1), March 2008, pp. 1-27.

“Anti-Coordination Games and Dynamic Stability” (with Fuhito Kojima). *International Game Theory Review* 9 (4), December 2007, pp. 667-688.

“Perfect Public Equilibrium when Players are Patient” (with Drew Fudenberg and David K. Levine). *Games and Economic Behavior* 61 (1), October 2007, pp. 27-49.

“Infinite Horizon Common Interest Games with Perfect Information.” *Games and Economic Behavior* 53 (2), November 2005, pp. 231-247.

“Improvement Dynamics in Games with Strategic Complementarities” (with Nikolai S. Kukushkin and Tetsuo Yamamori). *International Journal of Game Theory* 33 (2), June 2005, pp. 229-238.

“On Asynchronously Repeated Games” (with Quan Wen). *Economics Letters* 79 (2), May 2003, pp. 239-245.

“The Pure Nash Equilibrium Property and the Quasi-Acyclic Condition” (with Tetsuo Yamamori). *Economics Bulletin* 3 (22), October 2002, pp. 1-6.

### **Research Papers:**

“Games in Preference Form and Preference Rationalizability” (with Stephen Morris).

“Blackwell Equilibria” (with Costas Cavounidis, Sambuddha Ghosh, Johannes Hörner, and Eilon Solan).

“Mixed-Strategy Nash Equilibria in Random Games” (with Ting Pei).

“Implementation via Information Design in Binary-Action Supermodular Games” (with Stephen Morris and Daisuke Oyama).

### **Professional Activities:**

Co-editor of *Journal of Mathematical Economics*, 2020-now.

Editorial board member of *Economic Theory*, 2010-now; *Journal of Dynamics and Games*, 2012-now; *Journal of Mathematical Economics*, 2013-2019; *International Journal of Game Theory*, 2014-now; *Japanese Economic Review*, 2015-now; *Journal of Economic Behavior & Organization*, 2016-2019; *Journal of Economic Theory*, 2021-now.

Referee for *American Economic Review*, *Annals of Operations Research*, *B.E. Journal of Theoretical Economics* (excellent reviewer, 2014), *Discrete Applied Mathematics*, *Discrete Dynamics in Nature and Society*, *Dynamic Games and Applications*, *Econometrica*, *Economic Journal*, *Economic Theory*, *Economics Bulletin*, *Economics Letters*, *European Journal of Operational Research*, *European Journal of Political Economy*, *Games*, *Games and Economic Behavior* (excellent/outstanding reviewer, 2013, 2015), *IEEE Transactions on Cybernetics*, *International Economic Review*, *International Game Theory Review*, *International Journal of Economic Theory*, *International Journal of Environmental Research and Public Health*, *International Journal of Game Theory*, *Journal of Economic Behavior & Organization*, *Journal of Economic Theory*, *Journal of Institutional and Theoretical Economics*, *Journal of Law & Economics*, *Journal of Mathematical Economics*, *Journal of Political Economy*, *Journal of Systems Science and Systems Engineering*, *Journal of Theoretical Politics*, *Mathematical Social Science*, *Mathematics of Operations Research*, *PNAS*, *Quarterly Journal of Economics*, *Review of Economic Design*, *Review of Economic Studies*, *Risks*, *Social Choice and Welfare*, *Sustainability*, *Theoretical Economics*, and *Theory and Decision*.

Grant proposal review for GACR (Czech), RGC (Hong Kong), ISF (Israel), and NSF (US).

Program chair for IMS Program “Stochastic Methods in Game Theory” 2015.

Program committee for Games 2012, NASM 2012, and Games 2016.

**PhD Advisees:**

Chunchun Liu

Ting Pei

**Honors, Scholarships, and Fellowships:**

2022	Nakahara Prize
2021	Jiro Enjoji Memorial Prize
2020	Econometric Society Fellow
2019	Economic Theory Fellow
2015-2018	Academic Research Fund, Tier 1
2010-2013	Richard Allen Lester Preceptorship
2007	The <i>Review of Economic Studies</i> European Meetings
2002-2004	Murata Overseas Scholarship
2002	JSPS Research Fellowship for Young Scientists (DC1)