

Fuhito Kojima

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Current Employment

Associate Professor (with tenure), Department of Economics, Stanford University 2013 – present

Past Employment

Assistant Professor, Department of Economics, Stanford University 2009 – 2013

Postdoctoral Associate, Cowles Foundation, Yale University 2008 – 2009

Visiting Assistant Professor, Department of Economics, Columbia University 2011 – 2012

Education

Ph.D. in Economics, Harvard University June 2008

B.A. in Economics, *Summa cum Laude*, University of Tokyo March 2003

Research Interests

Game Theory (matching/assignment problems, auction, evolution/learning), Market Design, Political Economics.

Publications

1. Finding All Stable Matchings with Couples (2015), *Journal of Dynamics and Games* (a special issue for Marilda Sotomayor), 2, 321-330.
2. Efficient Assignment with Interdependent Values (2015), with Yeon-Koo Che and Jinwoo Kim, *Journal of Economic Theory*, 158, pp 54-86.
3. Efficient Matching Under Distributional Constraints: Theory and Applications (2015), with Yuichiro Kamada, *American Economic Review*, 105, pp 67-99.
4. Many-to-many Matching with Max-Min Preferences (2014), with John William Hatfield and Yusuke Narita, *Discrete Applied Mathematics*, 179, pp 235-240.
5. Voter Preferences, Polarization, and Electoral Policies (2014), with Yuichiro Kamada, *American Economic Journal: Microeconomics*, 6, pp 203-236.
6. The ‘Boston’ School Choice Mechanism (2014), with M. Utku Ünver, *Economic Theory*, 55, pp 515-544.
7. Matching with Couples: Stability and Incentives in Large Matching Markets (2013), with Parag A. Pathak and Alvin E. Roth, *Quarterly Journal of Economics* 128, pp 1585-1632.

8. Equivalence Between Costly Voting and Probabilistic Voting (2013), with Yuichiro Kamada, *Games and Economic Behavior* 80, pp 179-185.
9. Efficient Resource Allocation under Multi-unit Demand (2013), *Games and Economic Behavior* 82, pp 1-14.
10. Designing Random Allocation Mechanisms: Theory and Applications (2013), with Eric Budish, Yeon-Koo Che, and Paul Milgrom, *American Economic Review* 103, pp 585-623.
11. School Choice: Impossibilities for Affirmative Action (2012), *Games and Economic Behavior* 75, pp 685-693.
12. The “Rural Hospital Theorem” Revisited (2012), *International Journal of Economic Theory* 8 (Special Issue: The Legacy of Lionel W. McKenzie) pp 67-76.
13. Robust Stability in Matching Markets (2011), *Theoretical Economics* 6, pp 257-267.
14. Substitutes and Stability for Matching with Contracts (2010), with John William Hatfield, *Journal of Economic Theory* 145, pp. 1704-1723.
15. Asymptotic Equivalence of Probabilistic Serial and Random Priority Mechanisms (2010), with Yeon-Koo Che, *Econometrica* 78, pp 1625-1672.
16. Axioms for Deferred Acceptance (2010), with Mihai Manea, *Econometrica* 78, pp 633-653.
17. Incentives in the Probabilistic Serial Mechanism (2010), with Mihai Manea, *Journal of Economic Theory* 145, pp 106-123.
18. A Theory of Hung Juries and Informative Voting (2010), with Yuki Takagi, *Games and Economic Behavior* 69, pp 498-502.
19. Impossibility of Stable and Nonbossy Matching Mechanisms (2010), *Economics Letters* 107, pp 69-70.
20. Incentives and Stability in Large Two-Sided Matching Markets (2009), with Parag A. Pathak, *American Economic Review* 99, pp 608-27.
21. Group Incentive Compatibility for Matching with Contracts (2009), with John William Hatfield, *Games and Economic Behavior* 67, p.745-749.
22. Random Assignment of Multiple Indivisible Objects (2009), *Mathematical Social Sciences* 57, 134-142.
23. Matching with Contracts: Comment (2008), with John William Hatfield, *American Economic Review* 98, pp 1189-1194.
24. p -Dominance and Perfect Foresight Dynamics (2008), with Satoru Takahashi, *Journal of Economic Behavior and Organization* 68, 689-701.
25. Bureaucrats or Politicians?: Comment (2008), *American Economic Review* 98, pp 561-562.
26. Games of School Choice under the Boston Mechanism with General Priority Structures (2007), *Social Choice and Welfare* 31, pp 357-365.
27. The Law of Aggregate Demand and Welfare in the Two-Sided Matching Market (2007), *Economics Letters* 99, pp 581-584.
28. When can Manipulations be Avoided in Two-Sided Matching Markets? Maximal Domain Results (2007), *The B.E. Journal of Theoretical Economics (contribution)*, Article 32.
29. Anti-Coordination Games and Dynamic Stability (2007), joint with Satoru Takahashi, *International Game Theory Review* 9, pp 667-688.

30. Matching and Price Competition: Comment (2007), *American Economic Review* 97, pp 1027-1031.
31. Random Paths to Pairwise Stability in Many-to-Many Matching Problems: A Study on Market Equilibration (2006), with M. Utku Ünver, *International Journal of Game Theory* 36, pp 473-488 (the Special Issue in Honor of David Gale).
32. Risk-Dominance and Perfect Foresight Dynamics in N-Player Games (2006), *Journal of Economic Theory* 128, pp 255-273.
33. Mixed Strategies in Games of Capacity Manipulation in Hospital-Intern Markets (2006), *Social Choice and Welfare* 27, pp 25-28.
34. Stability and Instability of the Unbeatable Strategy in Dynamic Processes (2006), *International Journal of Economic Theory* 2, pp 41-54 (2006 IJET Lionel W. McKenzie Prize).

Other Publications

35. Investment Incentives in Labor Market Matching (2014), with John William Hatfield and Scott Duke Kominers, *American Economic Review, Papers and Proceedings*, 104, pp 436-441.
36. Alvin E. Roth (2013), *The New Palgrave Dictionary of Economics*, Eds. Steven N. Durlauf and Lawrence E. Blume.
37. Matching Theory: Contributions and Influences of Roth and Shapley (2013), with Yuichiro Kamada, *Keizai Seminar* (a general audience article, in Japanese)
38. Alvin Roth (2013), *Keizai Seminar* (a general audience article, in Japanese)
39. Stability and Strategy-Proofness for Matching with Constraints: A Problem in the Japanese Medical Matching and Its Solution (2012), with Yuichiro Kamada, *American Economic Review Papers and Proceedings* 102, pp 366-70.
40. Japanese Residency Matching Can Be Improved (2012), with Yuichiro Kamada, *The Nikkei* (a newspaper column, in Japanese).
41. Nobel Prize Awarded to Roth and Shapley (2012), *The Nikkei* (a newspaper column, in Japanese)
42. Nobel Laureate Alvin Roth's Revolutionary Contributions to Economics (2012), *Nikkei Business Online* (a general audience article, in Japanese)
43. Matching Theory and Its Application: "Regional Imbalance of Doctors" and Its Solution (2011), with Yuichiro Kamada and Jun Wako, *Iryo Keizai Kenkyu* 23, pp 5-19 (a survey, in Japanese)
44. Matching and Market Design: An Introduction to Selected Topics (2011), with Peter Troyan, *Japanese Economic Review* 62, pp 82-98 (a survey).
45. The Frontier of the School Choice Problem (2010), with Yosuke Yasuda, in *Designing School Choice Systems*, Yosuke Yasuda (editor), NTT Press; Tokyo (a survey, in Japanese).
46. Matching Market Design (2009), with Yosuke Yasuda, *Keizai Seminar* (a survey, in Japanese).
47. Game Theory and Market Design (2009), *The Nikkei* (a newspaper column, in Japanese).
48. Contemporary Problems (2015), *Kin-yu Journal* (a general audience article, in Japanese)

Working Papers

49. Stable Matching in Large Economies (2015), with Yeon-Koo Che and Jinwoo Kim, revise and resubmit, *Econometrica*.

50. Designing Matching Mechanisms under Constraints: An Approach from Discrete Convex Analysis (2015), with Akihisa Tamura and Makoto Yokoo.
51. Stability Concepts in Matching under Distributional Constraints (2015), with Yuichiro Kamada, revise and resubmit, *Journal of Economic Theory*
52. General Theory of Matching under Distributional Constraints (2016), with Yuichiro Kamada
53. Double Auction with Interdependent Valuation: Incentives and Efficiency (2015), with Takuro Yamashita, revise and resubmit, *Theoretical Economics*.
54. Promoting School Competition Through School Choice: A Market Design Approach (2016), with John William Hatfield and Yusuke Narita, revise and resubmit, *Journal of Economic Theory*
55. Understanding Stable Matchings: A Non-Cooperative Approach (2011), with Michihiro Kandori and Yosuke Yasuda.
56. Designing Matching Mechanisms under General Distributional Constraints (2015), with Masahiro Goto, Ryoji Kurata, Akihisa Tamura, and Makoto Yokoo.
57. Strategy-Proofness, Investment Efficiency, and Marginal Returns: An Equivalence (2015), with John William Hatfield and Scott Duke Kominers, revise and resubmit, *Journal of Political Economy*
58. Recent Developments in Matching Theory and its Practical Applications (2015), prepared for an invited lecture at 2015 World Congress of the Econometric Society.

Editorial and Other Services

Current

- Co-Editor, *Economic Theory* (2013-present)
- Co-Editor, *Economic Theory Bulletin* (2013-present)
- Editor-in-Chief, *Review of Economic Design* (2014 - present)
- Associate Editor, *Journal of Economic Theory* (2013-present)
- Associate Editor, *International Journal of Game Theory* (2011 - present)
- Associate Editor, *Japanese Economic Review* (2015-present)
- Associate Editor, *Journal of Mechanism and Institution Design* (2015-present)
- Associate Editor, *Journal of Dynamics and Games* (2015-present)

Past

- Associate Editor, *Economic Theory* (2009 - 2013)
- Associate Editor, *Review of Economic Design* (2011 - 2014)

Referee Services

ACM Transactions on Economics and Computation, Algorithms, American Economic Journal: Microeconomics, American Economic Review (Excellence in Refereeing Award), American Political Science Review, Berkeley Electronic Journal of Economic Analysis and Policy, Berkeley Electronic Journal of Economic Theoretical Economics, Discrete Applied Mathematics, Econometrica, EC (Economics and Computation) conference, Economics Letters, Economic Theory, Games and Economic Behavior, International Journal of Economic Theory, International Journal of Game Theory, Journal of Economic Behavior and Organization, Journal of Economic Theory, Journal of Experimental Algorithmics, Journal of Institutional and Theoretical Economics, Journal of Labor Economics, Journal of Mathematical Economics, Journal of Public Economics, Management Science, Mathematics of Operations Research, Mathematical Social Sciences, National Science Foundation (NSF), Operations Research, Quarterly Journal of Economics, Research Grants Council (Hong Kong), Review of Economic Design, Review of Economic Studies, Social Choice and Welfare, Social Sciences and Humanities Research Council of Canada (SSHRC), STOC 2014, Swiss National Science Foundation, Theoretical Economics, Theory and Decision, United States-Israel Science Foundation, Workshop

on Internet and Network Economics (WINE).

Professional Talks (including Planned Talks)

Conferences

- 2016** ASSA Meetings (San Francisco), Social Choice and Welfare Meeting (prize lecture, Lund)
- 2015** ASSA Meetings (Boston), Warwick Economic Theory Conference (Warwick), Econometric Society World Congress (plenary talk, Montreal), Memorial Event in Honor of Monique Florenzano (London), SAET 2015 (Cambridge), ASU December Theory Conference (Arizona State)
- 2014** ASSA Meetings (Philadelphia), NBER Market Design Workshop (Stanford), Game Theory Festival (plenary talk, Stony Brook), Becker-Friedman Institute Market Design Workshop (Chicago), Korean Economic Association Meetings (plenary talk, Seoul), International Workshop on Market Design Technologies for Sustainable Development (Keio), SAET 2014 (Waseda), Market Design (Berlin), Conference on optimization, transportation and equilibrium in economics (Fields Institute, Toronto), Midwest Economic Theory Conference (plenary talk, Kansas City), INFORMS 2014 (San Francisco), Conference on Market Design (Monash)
- 2013** Workshop on Games, Contracts, and Organizations (Santiago), New Directions in Applied Microeconomics (Caltech), WEAI Conference (Keio), TCER workshop (Keio), Workshop on Computer Science and Economic Theory (Kagoshima), WCU-Economics 2013 Conference (Yonsei), Workshop on Advances in Mechanism Design (Paris), The 4th York Game Theory Symposium (York), The 18th Coalition Theory Network Workshop (plenary talk, Warwick)
- 2012** ASSA Winter Meeting (Chicago), Workshop on Advances in Mechanism Design (Paris), SING 8 (Budapest), MATCH-UP 2012 (Budapest), Workshop on Auction and Matching (University of Michigan)
- 2011** ASSA Winter Meeting (Denver), A Pre-Conference on Microeconomic Theory (Seoul), Econometric Society Asian Meeting (Seoul), NBER/NSF General Equilibrium Conference (Iowa), IO Theory Conference (Columbia University)
- 2010** NBER Market Design Workshop (Cambridge MA), SAET conference (Singapore), Matching Conference in Celebration of the 20th anniversary of Roth and Sotomayor 1990 (Duke), Annual Meeting of Japanese Economic Association (plenary talk, Chiba)
- 2009** Summer Microeconomics Seminars (University of Hong Kong)
- 2008** Midwest Economic Theory Conference (Ohio State), Games 2008 (Northwestern), SITE Workshop on Market Design (Stanford), SISL Mini-Conference on Matching (Caltech), North American Summer Meetings of The Econometric Society (Carnegie Mellon University)
- 2007** Workshop on Matching: Theory, Applications, and Experiments (Barcelona), YNU Conference on Economic Theory (Yokohama, Japan)
- 2006** INFORMS Annual Meeting (Pittsburgh), The 17th International Conference on Game Theory (Stony Brook), North American Summer Meetings of The Econometric Society (University of Minnesota)
- 2005** 16th Jerusalem Summer School in Economic Theory “Matching, Auctions, and Market Design,” (Hebrew University), Intensive course in Evolutionary Economic Dynamics (University of Trento)
- 2004** The Second World Congress of the Game Theory Society (Marseille), The 10th Decentralization Conference (Keio, Japan)
- 2003** Italian Meeting for Game Theory and Applications 2003 (University of Urbino), Annual Meeting of the Japanese Economic Association (Oita University)

Seminars

- 2015** Columbia, Stanford, Santa Clara, Bristol, Bonn, Cologne, Waseda, Tokyo, Vanderbilt, ITAM, Harvard/MIT, Facebook
- 2014** Maastricht, Zurich, Tokyo, Simon Fraser, Maryland, Stanford, Iowa, Haas
- 2013** UBC, University of Texas Austin, Warwick, Penn State, UPenn, Duke, Toulouse School of Economics, University of Santiago, Cornell, UCL, LSE, University of Washington, Oxford, Yale, Tokyo, Kyoto, Hitotsubashi, Osaka
- 2012** Tokyo, Ohio State, Toulouse School of Economics, Stanford

2011 Kyoto, Tokyo, New Economic School, Fair Trade Committee of Japan, Calgary, University of Texas at Austin, Columbia, Zurich, Cornell, Rochester, Northwestern, Institute for Advanced Study
2010 University of Montreal, Carnegie Mellon University, Caltech, Texas A&M, Rice University, Arizona State University, Collegio Carlo Alberto, Ecole Polytechnique, Paris School of Economics, Boston College, Harvard/MIT, Waseda University, Tohoku University, University of Tokyo, UCLA, UC Davis, UC Berkeley, Columbia University, UCSD
2009 Waseda University, Princeton University, Johns Hopkins University, University of Tokyo, Penn State, Rochester, University of Wisconsin-Madison, University of Edinburgh, University of Michigan, University of Illinois Urbana-Champaign, University of Western Ontario
2008 Keio University, Waseda University, VCASI, Kobe University, University of Tokyo, University of Queensland, University of Melbourne, Chinese University of Hong Kong, Boston College, Rice University, University of Toronto, Yale University, Harvard Business School, MIT, University of Washington St. Louis, Northwestern Kellogg, Columbia University, Stanford University
2007 Harvard Business School, Microsoft Research
2006 University of Tokyo
2005 Kyoto University, Hitotsubashi University, University of Tokyo, Osaka University
2004 Hitotsubashi University, University of Tokyo, Tokyo Institute of Technology
2003 University of Tokyo, Nagoya City University

Invited Lectures

Oxford University, Waseda University, Seoul National University, Princeton University, Yonsei University, University of Santiago, University of Tokyo, York University, Toulouse School of Economics, The EC Conference 2011

Teaching

Graduate Topics in Game Theory
Graduate Political Economy
Graduate 1st Year Microeconomics (Game Theory)
Undergraduate Honors Market Design
(Past) Undergraduate Intermediate Microeconomics
(Past) Undergraduate Game Theory

Committee Works

At Stanford

Junior Recruiting Co-Chair
Graduate Admission Committee
Junior Recruiting Committee

Outside

NSF panelist (2014-present), Local organizer for Decentralization Conference 2014, Program Committee Member for EC 2014, 2015, 2016 (Senior PC), AMMA 2015, SAET 2010, 2012, 2014, 2015, 2016, AMES 2013, Games 2012, NASM 2016, tenure review letters (for an undisclosed set of universities).

Advisees

Graduate

Mustafa Oguz Afacan (main advisor)
Peter Troyan (main advisor)
Daniel Fragiadakis
Tadashi Hashimoto
Marissa Beck
Phuong Le (main advisor)
Bobak Pakzad-Hurson (main advisor)

Seungwon (Eugene) Jeong (main advisor)
Nick Arnosti
Kazunari Tokura
Eric Fanqi Shi
Guido Martirena

Undergraduate

Yusuke Narita
Evan Storms (co-advising with Paul Milgrom: Firestone Medal for the best undergraduate thesis)
Virginia Hogan
Ian Ball
Xuyi Guo

Awards and Honors

Social Choice and Welfare Prize	<i>2016</i>
Economic Theory Fellow	<i>2015-present</i>
SIEPR Fellow	<i>2014-present</i>
Sloan Research Fellow	<i>2013-2015</i>
Inaugural Ken-ichi Miyazawa Memorial Award	<i>2010</i>
Fellow, VCASI	<i>2008-</i>
American Economic Review Excellence in Refereeing Award	<i>2007, 2010, 2014</i>
International Journal of Economic Theory Lionel W. McKenzie Prize	<i>February 2007</i>
Hayek Fund for Scholars, Institute of Humane Studies	<i>December 2006</i>
Award for Excellence in Teaching, Harvard University	<i>December 2004</i>
Summer Research Grant, Harvard University	<i>July 2004</i>
Spring Economics Prize, Harvard University	<i>May 2006, May 2004</i>
Presidential Scholarship, Harvard University	<i>2003 to 2008</i>
Ouchi Hyoe Award for the Best Undergraduate Thesis, University of Tokyo	<i>March 2003</i>
Presidential Award, University of Tokyo	<i>March 2003</i>