

M. Utku Ünver

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ACADEMIC POSITIONS

- Professor, Boston College, Department of Economics (Sep 2011-present)
- Associate Professor, Boston College, Department of Economics (Sep 2008-Aug 2011)
- Assistant Professor, University of Pittsburgh, Department of Economics (Sep 2005-Aug 2008)
- Assistant Professor, Koç University, Department of Economics (Sep 2000-Aug 2005)

Visiting Fellowship:

- Professorial Research Fellow, Deakin University Australia (Mar 2017-Mar 2020, two weeks per year)

EDUCATION

- Ph.D. in Economics, University of Pittsburgh (2000)
- M.A. in Economics, University of Pittsburgh (1997) and Bilkent University (1995)
- B.Sc. in Electrical and Electronics Engineering, Bilkent University (1993)

AREAS OF INTEREST

- Microeconomic theory: market design, mechanism design, and game theory with emphasis on the theory and practice of exchange and allocation of discrete resources and matching, transplant organ allocation policies, and axiomatic mechanism design

PROFESSIONAL PRIZES, AWARDS, HONORS

- Elected Fellow of *The Science Academy*, Turkey (2014-present)
- President of the *Society for Economic Design* (2008-2015)
- Franz Edelman Laureate, *INFORMS* (2014)
- Special Award, *Turkish Scientific and Technological Research Council (TÜBİTAK)* (2013)
- Distinguished Young Scientist Award (GEBİP), (*Older*) *Turkish Academy of Sciences (TÜBA)* (2005).
- Research Incentive Award, *METU Prof. Dr. Mustafa Parlar Foundation* (2005)
- Incentive Award in Social Sciences, (*Older*) *Turkish Academy of Sciences (TÜBA)* (2004)
- Best Graduate Student Paper Prize, *Society for Computational Economics* (1999)
- Excellence in Refereeing, *American Economic Review* (2011, 2012, 2013, 2016, 2017)

GRANTS

- *Principal Investigator - National Science Foundation*, Grant for “Liver Exchange” (No: SES #1729778) (Sep 2017 - Aug 2019) (grant amount: \$ 291,749, including two other co-PIs, Tayfun Sönmez and Bumin Yenmez)

- *Co-Principal Investigator - National Science Foundation*, Grant for “Organ Exchange for Kidneys, Livers, and Lungs” (No: SES # 1426440) (Sep 2014-Aug 2017) (grant amount: \$ 280,247, including other PI Tayfun Sönmez)
- *Principal Investigator - National Science Foundation*, Grant for “Collaborative Research: The Optimal Timing of Kidney Exchanges: A Markov Game Approach” (No: CMMI #1069100) (June 2011-May 2014) (grant amount: \$ 90,978)
- *Principal Investigator - National Science Foundation* Grant for “Collaborative Research: Kidney Exchange” (No: SES #0616689) (August 2006 - July 2008) (grant amount: \$ 69,870).
- *Co-Principal Investigator - National Science Foundation*, Grant for “EHP: Market Culture, Performance, and the Timing of Transactions” (No: SES #0338619) (July 2004 - June 2010) (grant amount: \$ 323,338 including other PIs, Muriel Niederle and Alvin Roth).

EDITORIAL BOARDS

- Associate/ Advisory Editor: *Theoretical Economics* (2012-present), *Journal of Economic Theory* (2016-present), *Games and Economic Behavior* (2018-present), *Journal of Mechanism and Institution Design* (2015-present), *Journal of Dynamics and Games* (2015-present), *Review of Economic Design* (2012-2019), *Journal of Mathematical Economics* (2010-2016), *The BE Journal of Theoretical Economics* (2007-2013)

PUBLICATIONS

48. “Efficient and Incentive-Compatible Liver Exchange,” *Econometrica*, forthcoming (with Haluk Ergin and Tayfun Sönmez)
 47. Related: “Leverbytesprogram - framtid för Sverige?” (“Liver Exchange - A future for Sweden?”), *Läkartidningen (The Journal of the Swedish Medical Association)* (2018) 115, E9YL (with Tommy Andersson and Tayfun Sönmez) [non-refereed].
46. “Incentivized Kidney Exchange,” *American Economic Review*, conditionally accepted (with Tayfun Sönmez and M. Bumin Yenmez)
45. “Two-Sided Matching via Balanced Exchange,” *Journal of Political Economy*, (2019) 127(3): 1156-1177 (with Umut Mert Dur).
44. “How (not) to Integrate Blood Subtyping Technology to Kidney Exchange,” *Journal of Economic Theory*, (2018) 176: 193-231 (with Tayfun Sönmez and Özgür Yılmaz)
43. “Market Design for Living-Donor Organ Exchanges: An Economic Policy Perspective,” *Oxford Review of Economic Policy*, (2017) 33(4): 676–704 (with Tayfun Sönmez).
42. “Dual-Donor Organ Exchange” *Econometrica*, (2017) 85(5): 1645–1671 (with Haluk Ergin and Tayfun Sönmez) (with [Supplementary Appendix](#)).
41. “Incentive Compatible Allocation and Exchange of Discrete Resources,” *Theoretical Economics* (2017) 12(1): 287–329 (with Marek Pycia).
40. “The Pennsylvania Adoption Exchange Improves Its Matching Process,” *INFORMS Journal on Applied Analytics*, (2016) 46(1): 133–153 (with Vincent Slaugh, Mustafa Akan, Onur Kesten).
 39. Related: “Improving Child Welfare Outcomes via Market Design,” In S. D. Kominers and A. Teytelboym (Eds.): **More Fair by Design: Economic Design Responses to Inequality**, Oxford University Press Series on Inequality in the Twenty-First Century Vol. IV, forthcoming (with Vincent Slaugh, Mustafa Akan, and Onur Kesten) [non-refereed].

38. “Decomposing Random Mechanisms,” *Journal of Mathematical Economics*, (2015) 61: 21–33 (with Marek Pycia).
37. “A Theory of School Choice Lotteries,” *Theoretical Economics*, (2015) 10: 543–595 (with Onur Kesten).
36. “Kidney Exchange and the Alliance for Paired Donation: Operations Research Changes the Way Kidneys are Transplanted,” *INFORMS Journal on Applied Analytics*, (2015) 45(1): 26–42, (with Ross Anderson, Itai Ashlagi, David Gamarnik, Michael Rees, Alvin E. Roth, Tayfun Sönmez).
35. “Altruistically Unbalanced Kidney Exchange,” *Journal of Economic Theory*, (2014) 152: 105–129 (with Tayfun Sönmez)
34. “The ‘Boston’ School Choice Mechanism: An Axiomatic Approach,” *Economic Theory*, (2014) 55(3): 515–544 (with Fuhito Kojima).
33. “Two Axiomatic Approaches to the Probabilistic Serial Mechanism,” *Theoretical Economics*, (2014) 9: 253–277 (with Tadashi Hashimoto, Daisuke Hirata, Onur Kesten, Morimitsu Kurino).
32. Related: “On Characterizations of the Probabilistic Serial Mechanism Involving Incentive and Invariance Properties,” *Mathematical Social Sciences* in honor of *Hervé Moulin*, (2017) 90: 56–62 (with Onur Kesten and Morimitsu Kurino).
31. “Market Design for Kidney Exchange,” In N. Vulkan, A.E. Roth, and Z. Neeman (Eds.): **Oxford Handbook of Market Design**, Oxford University Press, (2013) 91–137 (with Tayfun Sönmez) [non-refereed].
30. Related: “New Sources in Living Kidney Donation,” In D. B. McKay and S. M. Steinberg (Eds.): **Kidney Transplantation: A Guide to the Care of Kidney Transplant Recipients**, Springer, (2010) 103–107. (with Ruthanne Hanto, Alvin E. Roth, and Francis Delmonico) [non-refereed]
29. “Unraveling Results from *Comparable Demand and Supply: An Experimental Investigation*,” *Games*, Special Issue on Matching Markets, (2013) 4(2): 243–282 (with Muriel Niederle and Alvin E. Roth).
28. “Matching, Allocation, and Exchange of Discrete Resources,” In J. Benhabib, A. Bisin, and M.O. Jackson (Eds.): **Handbook of Social Economics, Vol. 1A**, North-Holland, (2011) 781–852 (with Tayfun Sönmez) [non-refereed].
27. “Ideology and Existence of 50%-Majority Equilibria in Multidimensional Spatial Voting Models,” *Journal of Theoretical Politics*, (2010) 22(4): 431–444 (with Hervé Crès).
26. Related: “Toward a 50%-majority Equilibrium When Voters are Symmetrically Distributed,” *Mathematical Social Sciences* in honor of *Hervé Moulin*, (2017) 90: 145–149 (with Hervé Crès).
25. “House Allocation with Existing Tenants: A Characterization,” *Games and Economic Behavior*, (2010) 69(2): 425–445 (with Tayfun Sönmez)
24. “Course Bidding at Business Schools,” *International Economic Review*, (2010) 51 (1): 99–123 (with Tayfun Sönmez).
23. “Dynamic Kidney Exchange,” *Review of Economic Studies*, (2010) 77(1): 372–414.
22. “A Non-simultaneous Extended Altruistic Donor Chain,” *The New England Journal of Medicine*, (2009) 360(11): 1096–1101 (with M.A. Rees, J.E. Kopke, R.P. Pelletier, D.L. Segev, M.E. Rutter, A.J. Fabrega, J. Rogers, O.G. Pankewycz, J. Hiller, A.E. Roth, T. Sandholm, R.A. Montgomery).

21. "Improving the Efficiency of Course Bidding at Business Schools: Field and Laboratory Studies," *Marketing Science*, (2008) 27(2): 262–282 (with Aradhna Krishna).
20. "Internet Auctions with Artificial Adaptive Agents: A Study on Market Design," *Journal of Economic Behavior and Organization*, (2008) 67 (2): 394–417 (with John Duffy).
19. "Random Paths to Pairwise Stability in Many-to-Many Matching Problems: A Study on Market Equilibration," *International Journal of Game Theory* in honor of *David Gale's* 85th birthday, (2008) 36(3-4): 473–488, (with Fuhito Kojima).
18. "Unraveling Results from Inefficient Matching: Evidence from Post-Season College Football Bowls," *RAND Journal of Economics*, (2007) 38(4): 967–982 (with Guillaume Frechette and Alvin E. Roth).
17. "Efficient Kidney Exchange: Coincidence of Wants in Markets with Compatibility Based Preferences," *American Economic Review*, (2007) 97 (3): 828–851 (with Alvin E. Roth and Tayfun Sönmez).
16. "Equilibrium Selection and the Role of Information in Repeated Matching Markets," *Economics Letters*, (2007) 94: 284–289 (with Ernan Haruvy).
15. "Utilizing List Exchange and Non-directed Donation through 'Chain' Paired Kidney Donations," *American Journal of Transplantation*, (2006) 6: 2694–2705 (with Alvin E. Roth, Tayfun Sönmez, Francis L. Delmonico, and Susan L. Saidman).
14. "Increasing the Opportunity of Live Kidney Donation By Matching for Two and Three Way Exchanges," *Transplantation*, (2006) 81: 773–782 (with Susan L. Saidman, Alvin E. Roth, Tayfun Sönmez, and Francis L. Delmonico).
13. "Games of Capacity Manipulation in Hospital-Intern Markets," *Social Choice and Welfare*, (2006) 27: 3–24 (with Hideo Konishi).
12. "Credible Group Stability in Many-to-Many Matching Problems," *Journal of Economic Theory*, (2006) 129: 57–80 (with Hideo Konishi).
11. "Asset Price Bubbles and Crashes with Near-Zero-Intelligence Traders," *Economic Theory*, (2006) 27: 537–563 (with John Duffy).
10. "The Dynamics of Law Clerk Matching: An Experimental and Computational Investigation of Proposals for Reform of the Market," *Journal of Economic Dynamics and Control*, (2006) 30: 457–486 (with Ernan Haruvy and Alvin E. Roth).
9. "Pairwise Kidney Exchange," *Journal of Economic Theory*, (2005) 125: 151–188 (with Alvin E. Roth and Tayfun Sönmez).
8. "A Kidney Exchange Clearinghouse in New England," *American Economic Review Papers and Proceedings*, (renamed as *AEA: Papers and Proceedings*) (2005) 95(2): 376–380 (with Alvin E. Roth and Tayfun Sönmez) [non-refereed].
 7. Related: "Kidney Paired Donation with Compatible Pairs," *American Journal of Transplantation*, (2007) 7: 1, (with Alvin Roth and Tayfun Sönmez) [non-refereed].
6. "House Allocation with Existing Tenants: An Equivalence," *Games and Economic Behavior*, (2005) 52: 153–185 (with Tayfun Sönmez).
5. "On the Survival of Some Unstable Two-Sided Matching Mechanisms," *International Journal of Game Theory*, (2005) 33: 239–254.

4. "Room Assignment-Rent Division: A Market Approach," *Social Choice and Welfare*, (2004) 22: 515–538 (with Atila Abdulkadiroğlu and Tayfun Sönmez).
3. "Kidney Exchange," *Quarterly Journal of Economics*, (2004) 119: 457–488 (with Alvin E. Roth and Tayfun Sönmez).
2. "On Determination of Reserve Price in Auctions When the Ranking of Valuations is Common Knowledge," In M. R. Sertel and S. Koray (Eds.): **Advances in Economic Design**, Springer Studies in Economic Design, (2003) 79–94 (with A. Alexander Elbittar)
1. "Backward Unraveling over Time: The Evolution of Strategic Behavior in the Entry-Level British Medical Labor Markets," *Journal of Economic Dynamics and Control*, (2001) 25: 1039–1080.

WORKING PAPERS

- "A Market Design Solution to Unfair Distribution of Teachers in Schools" (in progress) (with Julien Combe, Umut Dur, Olivier Tercieux, and Camille Terrier)
- "Designing Practical and Fair Sequential Team Contests" (latest draft 2019) (with Nejat Anbarcı and Ching-Jen Sun)
- "Arrovian Efficiency in Allocation of Discrete Resources," (latest draft 2016) (with Marek Pycia)
- "Outside Options in Neutral Discrete Resource Allocation," (latest draft 2016) (with Marek Pycia)
- "Flexible Top Trading Cycles and Chains Mechanism: Maintaining Diversity in Erasmus Student Exchange," (latest draft 2015) (with Umut Mert Dur and Onur Kesten)
- "Valuing Prearranged Paired Kidney Exchanges: A Stochastic Game Approach," (2010) (with Murat Kurt, Mark Roberts, and Andrew Schaefer)
- "Trading Cycles for School Choice," (2010) (with Marek Pycia)
- "Market Mechanisms for Allocation of Indivisible Objects and Money," (2007)
- "Transplant Center Incentives in Kidney Exchange," (2005) (with Alvin E. Roth and Tayfun Sönmez)

PREVIOUS VISITING APPOINTMENTS

- Visiting Professor, MIT (Fall 2017)
- Distinguished Research Fellow, Koç University (July's, 2013-2017)
- Honorary Professor, Deakin University, Victoria, Australia (May 2013, Feb '15, 15 days a year)
- Visiting Professor, University of Illinois, Urbana-Champaign (Jan 2014-Apr 2014)
- Visiting Researcher, Microsoft Research Lab, Cambridge, MA (Aug 2010-Dec 2010)
- Research Fellow, Harvard Business School (Sep 2002-Aug 2003)

PUBLIC POLICY SERVICE

- Helped found and advised New England Program for Kidney Exchange and Alliance for Paired Donation (<http://www.paireddonation.org>)
- Advised Pennsylvania State-wide Adoption Network (<http://www.adoptpakids.org>)

- At-Large Representative, United Network for Organ Sharing (<http://www.unos.org>) (2009-2010) for establishment of national kidney exchange program; advised ad hoc (2005-2013)
- Board Member of Center for Market Design, University of Melbourne (2015-March 2017)

HONORARY AFFILIATIONS

- Fellow, Center for Market Design, UNSW, (Fall 2016 -present)
- Fellow, Center for Market Design, University of Technology, Sydney (May 2014, Fall 2016)
- Affiliate, Economic Research Forum, Koç University (Oct 2011-present)
- Fellow, Center for Engineering Social and Economic Institutions, University of Zurich (Apr 2012-May 2014)
- Member, Murat Sertel Center for Advanced Economic Studies, Bilgi University, Istanbul, Turkey (Jan 2010-present)

CONFERENCE & SOCIETY BOARDS

- Board Member (2016-present), President (2008-2015), *Society for Economic Design*.
- Elected Council Member, *Society for Social Choice & Welfare* (2014-2019).
- Co-organizer and program co-chair, *Society for Social Choice and Welfare Conf: 2014; Winter Workshop of Society for Economic Design and Johns Hopkins U: 2011*.
- Program co-chair, *Conf on Economic Design: 2008*.
- Senior program committee member, *ACM Economics and Computation Conf: 2014, 2013*.
- Organization committee, *Conf for the 20th Ann. of Roth and Sotomayor's Book: 2010*.
- Program committee member, *Society for SSCW Conf: 2018, 2016, 2008, 2006; Conf on Economic Design: 2017, 2015, 2013, 2006; ACM Economics and Computation Conf: 2016, 2012; MATCH-UP Conf: 2015*.

DOCTORAL ADVISEES

(A: advisor, CA: co-advisor, CM: committee member)

Ayça Giritligil (Boğaziçi, 2001, CM), Yong-Ju Lee (Pitt, 2007, CM), Yong Sui (Pitt, 2007, CM), Ana Espinola-Arredondo (Pitt, 2008, CM), Morimitsu Kurino (Pitt, 2009, CA), Özgün Ekici (Carnegie Mellon, 2011, CM), Çağlar Yurtseven (BC, 2011, A), Chiu Yu Ko (BC, 2012, CM), Murat Kurt (Pitt, 2012, CM), Radoslav Raykov (BC, 2012, A), Samson Alva (BC, 2013, A), Umut M Dur (Texas, 2013, CA), Inacio Bo (BC, 2014, A), Orhan Aygün (BC, 2014, CM), Chen-Yu Pan (BC, 2014, CM), Bertan Turhan (BC, 2015, A), Yat F Wong (BC, 2015, CM), Vincent Slauch (Carnegie Mellon, 2015, CM), Madhav Raghavan (ISI Delhi, 2016, CM), Xiang Han (So Methodist, 2017, CM), Jinyong Jeong (BC, 2018, A), Vitor Hadad (BC, 2018, CM), David Delacr tez (Melbourne, 2018, CM)

SELECTED PRESENTATIONS

- Keynote, Match-Up, Ascona, Switzerland, 2019, "Efficient and IC Liver Exchange"
- Keynote, SHUFE Theory Conf, Shanghai, 2018, "Efficient and IC Liver Exchange"
- Keynote, Arne Ryde Conf on Market Design, U Lund, Sweden, 2018, "Efficient and IC Liver Exchange"
- Keynote, SHUFE Theory Conf, Shanghai, 2018, "Efficient and IC Liver Exchange"

- Keynote, Matching in Practice Wshop, Budapest, 2016, "Efficient and IC Liver Exchange"
- Semi-plenary, Game Theory S World Congress, 2016, "Dual-Donor Organ Exchange"
- Keynote, Computational Social Choice, Toulouse, 2016, "Dual-Donor Organ Exchange"
- Keynote, RES-York Symposium on Game Theory, 2016, "Dual-Donor Organ Exchange"
- Keynote, Australasian Economic Theory Wshop, 2015, "Dual-Donor Organ Exchange"
- Special COST Lecture, Conf on Economic Design, 2013, "Incentivized Kidney Exchange"
- Invited Tutorial, ACM Electronic Commerce Conf, 2013, "Matching Market Design"
- Fred Gruen Public Lecture, Australia National U, 2013, "Incentivized Kidney Exchange"
- Invited Tutorial, AI and Simulated Behavior Conf, 2013, "Matching Market Design"
- Barcelona JOCS Seminar, 2013, "Incentivized Kidney Exchange"
- Terri McLaine Waters Distinguished Alum Seminar, Pitt, 2012, "A Theory of School Choice Lotteries"
- Plenary, Int Conf on Game Theory at Stony Brook, 2010, "Incentive Compatible Allocation and Exchange of Discrete Resources"
- Semi-plenary, Econometric S Europe Meeting, 2007, "Kidney Exchange"
- Murat Sertel Keynote Lecture, Boğaziçi U, İstanbul, 2004, "Pairwise Kidney Exchange"