

## CURRICULUM VITAE

### TAYFUN SÖNMEZ

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#### Education:

- Ph.D. in Economics, University of Rochester, May 1995.
- M.A. in Economics, University of Rochester, May 1994.
- B.S. in Electrical Engineering, Bilkent University, Ankara, Turkey, June 1990.

#### Full Time Appointments:

- September 2005 - present: Professor of Economics, Boston College
- January 2000 - August 2005: Associate Professor of Economics, Koç University, İstanbul, Turkey
- February 1999 - January 2000: Assistant Professor of Economics, Koç University, İstanbul, Turkey
- July 1995 - January 1999: Assistant Professor of Economics, University of Michigan

#### Visiting Positions:

- July - August 2013 - 2017: Distinguished Research Fellow, Koç University, İstanbul, Turkey
- September 2004 - August 2005: Research Fellow, Harvard Business School

**Fields of Specialization:** Microeconomic Theory, Mechanism/Market Design, Game Theory, Economics of Education, Matching Theory, Social Choice Theory.

## Refereed Journal Publications:

1. “Reserve Design: Unintended Consequences and The Demise of Boston’s Walk Zones” (joint with Umut Dur, Scott Duke Kominers, and Parag Pathak), Accepted subject to minor revision, *Journal of Political Economy*.
2. “Matching with Slot-Specific Priorities: Theory,” (joint with Scott Duke Kominers), *Theoretical Economics*, 11(2), 683-710, May 2016.
3. “Kidney Exchange and the Alliance for Paired Donation: Operations Research Changes the Way Kidneys are Transplanted,” (joint with Ross Anderson, Itai Ashlagi, David Gamarnik, Michael Rees, Alvin E. Roth, and Utku Ünver) *Interfaces*, 45-1: 26-42, January-February 2015.
4. “Altruistically Unbalanced Kidney Exchange” (joint with Utku Ünver), *Journal of Economic Theory*, 152: 105-129, July 2014.
5. “Matching with Contracts: Comment” (joint with Orhan Aygün), *American Economic Review*, 103(5): 2050-2051, August 2013.
6. “Bidding for Army Career Specialties: Improving the ROTC Branching Mechanism,” *Journal of Political Economy*, 121(1): 186-219, February 2013.
7. “Matching with (Branch-of-Choice) Contracts at the United States Military Academy” (joint with Tobias Switzer), *Econometrica*, 81(2): 451-488, March 2013.
8. “School Admissions Reform in Chicago and England: Comparing Mechanisms by Their Vulnerability to Manipulation” (joint with Parag Pathak), *American Economic Review*, 103(1): 80-106, February 2013.
9. “House Allocation with Existing Tenants: A Characterization” (joint with Utku Ünver), *Games and Economic Behavior*, 69(2): 425-445, July 2010.
10. “Course Bidding at Business Schools” (joint with Utku Ünver), *International Economic Review*, 51(1): 99-123, Feb 2010.
11. “Leveling the Playing Field: Sincere and Strategic Players in the Boston Mechanism” (joint with Parag Pathak), *American Economic Review*, 98(4): 1636-1652, 2008.
12. “Kidney Paired Donation with Compatible Pairs,” (joint with Alvin Roth and Utku Ünver), *American Journal of Transplantation*, 8(2):463, Feb 2008.

13. “Efficient Kidney Exchange: Coincidence of Wants in Markets with Compatibility-Based Preferences” (joint with Alvin Roth and Utku Ünver), *American Economic Review*, 97-3: 828-851, June 2007.
14. “Increasing the Opportunity of Live Kidney Donation by Matching for Two and Three Way Exchanges” (joint with Susan Saidman, Alvin Roth, Utku Ünver and Francis Delmonico), *Transplantation* 81(5): 773-782, 2006.
15. “School Choice: An Experimental Study” (joint with Yan Chen), *Journal of Economic Theory*, 127: 202-231, 2006.
16. “Games of School Choice under the Boston Mechanism” (joint with Haluk Ergin), *Journal of Public Economics*, 90: 215-237, 2006.
17. “Pairwise Kidney Exchange” (joint with Alvin Roth and Utku Ünver), *Journal of Economic Theory*, 125: 151-188, 2005.
18. “House Allocation with Existing Tenants: An Equivalence” (joint with Utku Ünver), *Games and Economic Behavior* 52:153-185, 2005.
19. “Kidney Exchange” (joint with Alvin Roth and Utku Ünver), *Quarterly Journal of Economics* 119: 457-488, 2004.
20. “Room Assignment-Rent Division: A Market Approach” (joint with Atila Abdulkadiroğlu and Utku Ünver), *Social Choice and Welfare* 22: 515-538, 2004.
21. “An Experimental Study of House Allocation Mechanisms” (joint with Yan Chen), *Economics Letters* 83: 137-140, 2004.
22. “School Choice: A Mechanism Design Approach” (joint with Atila Abdulkadiroğlu), *American Economic Review*, 93: 729-747, 2003.
23. “Ordinal Efficiency and Dominated Sets of Assignments” (joint with Atila Abdulkadiroğlu), *Journal of Economic Theory*, 112: 157-172, 2003.
24. “Improving Efficiency of On-Campus Housing: An Experimental Study” (joint with Yan Chen), *American Economic Review*, 92: 1669-1686, 2002.
25. “Core in a Simple Coalition Formation Game” (joint with Suryapratim Banerjee and Hideo Konishi), *Social Choice and Welfare*, 18: 135-153, 2001.
26. “House Allocation with Existing Tenants” (joint with Atila Abdulkadiroğlu), *Journal of Economic Theory*, 88: 233-260, 1999.

27. "Can Pre-Arranged Matches be Avoided in Two-Sided Matching Markets?" *Journal of Economic Theory*, 86: 148-156, 1999.
28. "Strategy-Proofness and Essentially Single-Valued Cores," *Econometrica*, 67: 677-689, 1999.
29. "A Tale of Two Mechanisms: Student Placement" (joint with Michel Balinski), *Journal of Economic Theory*, 84: 73-94, 1999.
30. "Random Serial Dictatorship and the Core from Random Endowments in House Allocation Problems" (joint with Atila Abdulkadiroğlu), *Econometrica*, 66: 689-701, 1998.
31. "Manipulation via Capacities in Two-Sided Matching Markets," *Journal of Economic Theory*, 77: 197-204, 1997.
32. "Games of Manipulation in Marriage Problems," *Games and Economic Behavior*, 20, 169-176, 1997.
33. "Implementation of College Admission Rules" (joint with Tarık Kara), *Economic Theory*, 9: 197-218, 1997.
34. "Implementation in Generalized Matching Problems," *Journal of Mathematical Economics*, 26: 429-439, 1996.
35. "Strategy-Proofness in Many-to-One Matching Problems," *Economic Design* 1: 365-380, 1996.
36. "Nash Implementation of Matching Rules" (joint with Tarık Kara), *Journal of Economic Theory* 68: 425-439, 1996.
37. "Consistency, Monotonicity, and the Uniform Rule," *Economics Letters*, 46, 229-235, 1994.

#### Invited Publications:

1. "Cadet-Branch Matching," *ACM SIGecom Exchanges*, 13(1): 50-57, June 2014.
2. "Market Design for Kidney Exchange," (with Utku Ünver) Z. Neeman, A. Roth, N. Vulkan (eds.) *Oxford Handbook of Market Design*, Oxford, 2013.
3. "Matching Markets: Theory and Practice," (joint with Atila Abdulkadiroğlu), *Advances in Economics and Econometrics*, D. Acemoglu, M. Arellano, and E. Dekel (eds), Cambridge, 2013.

4. “Matching, Allocation, and Exchange of Discrete Resources,” (joint with Utku Ünver), J. Benhabib, A. Bisin, and M. Jackson (eds.) *Handbook of Social Economics, Handbook of Social Economics*, Vol. 1A. The Netherlands: North-Holland, (2011) 781-852.
5. “Matching” (joint with Muriel Niederle and Alvin Roth), *The New Palgrave Dictionary of Economics*, 2nd edition, Eds. Steven N. Durlauf and Lawrence E. Blume, Palgrave Macmillan, 2008.
6. “A Kidney Exchange Clearinghouse in New England” (joint with Alvin Roth and Utku Ünver), *American Economic Review Papers & Proceedings* 95-2: 376-380, 2005.
7. “The Boston Public School Match” (joint with Atila Abdulkadiroğlu, Parag Pathak and Alvin Roth), *American Economic Review Papers & Proceedings* 95-2: 368-371, 2005.

#### **Working Papers and Work-in-Progress:**

1. “Multi-Donor Organ Exchange,” (joint with Haluk Ergin and Utku Ünver), July 2016. Revise-and-resubmit, *Econometrica*.
2. “Enhancing the Efficiency of and Equity in Transplant Organ Allocation via Incentivized Exchange,” (joint with Utku Ünver), January 2015.
3. “How (not to) Integrate Blood Subtyping Technology to Kidney Exchange” (joint with Utku Ünver and Özgür Yılmaz), October 2015. Revise-and-resubmit, *Journal of Economic Theory*.
4. “Efficient and Incentive Compatible Liver Exchange,” (joint with Haluk Ergin and Utku Ünver), November 2015.
5. “Explicit vs. Statistical Preferential Treatment in Affirmative Action: Theory and Evidence from Chicago’s Exam Schools” (with Umut Dur and Parag Pathak), March 2016.
6. “Turmoil in Taiwan: Preference-Driven Priority Mechanisms in School Choice” (joint with Parag Pathak and Fei Song), February 2015.
7. “Matching with Contracts: Critical Role of Irrelevance of Rejected Contracts” (joint with Orhan Aygün), May 2012.

8. “The Importance of Irrelevance of Rejected Contracts in Matching under Weakened Substitutes Conditions” (joint with Orhan Aygün), June 2012.
9. “Changing the Boston School Choice Mechanism: Strategy-proofness as Equal Access” (joint with Atila Abdulkadiroğlu, Alvin Roth, and Parag Pathak), July 2007.

#### **Awards and Honorific Elections:**

- Economic Theory Fellow, elected in 2016.
- Elected to Science Academy, Turkey, November 2014.
- Franz Edelman Laureate, Institute for Operations Research and Management Sciences (INFORMS), 2014.
- Social Choice and Welfare Prize, 2008.
- TÜBA (Turkish Academy of Sciences) Science Award, May 2005.
- Econometric Society Fellow, elected in 2003.
- TÜBA (Turkish Academy of Sciences) Distinguished Young Scholar Award, June 2002.
- TÜBA (Turkish Academy of Sciences) Young Investigator Award, September 2000.

#### **Grants:**

- Dalinc Ariburnu - Goldman Sachs Faculty Research Fund, Grant 5104132, 2016-2022.
- Dalinc Ariburnu - Goldman Sachs Faculty Research Fund, Grant 52197, 2015-2019.
- National Science Foundation Grant SES-1426440, “Organ Exchange for Kidneys, Livers, and Lungs,” 2014-2017.
- National Science Foundation Grant SES-1426566, “Diversity and Transportation in School Choice,” 2014-2017.
- Dalinc Ariburnu - Goldman Sachs Faculty Research Fund, Grant 50629, 2013-2016.
- National Science Foundation grant SES-0616470, “Collaborative Research: Kidney Exchange,” 2006-2008.
- National Science Foundation Grant SBR-9904214, “Mechanism Design for Indivisible Goods Allocation,” 1999-2001.

- National Science Foundation Grant SBR-9709138, “Mechanism Design in Matching Problems,” 1997-1999.

### **Distinguished Lectures:**

- Keynote Lecture, 7th RES-York Symposium and Mini-Courses on Game Theory, York, June 2016.
- Invited Speaker, 6th International Workshop on Computational Social Choice, Toulouse, France, June 2016.
- Latin American Economic Review Special Lecture, CIDE, Mexico City, September 2014.
- Keynote Lecture, CIREQ Montreal Matching Conference, Montreal, March 2014.
- Keynote Lecture, Texas Economic Theory Camp, Texas A&M University, September 2013.
- Murat Sertel Lecture, The 8th Biennial Conference on Economic Design, Lund University, July 2013.
- Invited Speaker, MATCH-UP 2012: the Second International Workshop on Matching Under Preferences, Budapest, July 2012.
- Invited Speaker, 2012 Econometric Society Australasian Meeting, Melbourne, July 2012.
- Invited Speaker, 10th World Congress of Econometric Society, Shanghai, August 2010.
- Social Choice and Welfare Prize Lecture, 9th International Meeting of the Society for Social Choice and Welfare, Montreal, June 2008.
- Invited Speaker, Barcelona JOCS, Barcelona, October 2007.

### **Professional Activities:**

- Associate Editor, *Econometrica*, 2016-.

### **Mini Courses/Tutorials:**

- Mini course on “Matching,” 7th RES-York Symposium and Mini-Courses on Game Theory, York, June 2016.

- Mini course on “Matching Markets: Theory and Practice,” The 3rd İstanbul Graduate Summer School, Bilgi University, July 2015.
- Mini course on “Market Design,” Tsukuba University, October 2014.
- Mini course on “Matching Markets: Theory and Practice,” The 2nd İstanbul Graduate Summer School, Koç University, July 2014.
- Mini course on “Market Design,” The 12th Meeting of the Society for Social Choice and Welfare, Boston, June 2014.
- Mini course on “Market Design,” Texas A&M University, September 2013.
- Mini course on “Matching Markets: Theory and Practice,” The 1st İstanbul Graduate Summer School, Boğaziçi University, July-August 2013.
- Mini course on “Matching Markets: Theory and Applications,” Arne Ryde Mini-Course on Economic Design, Lund, July 2013.
- Tutorial on “Market Design,” EC13: 14th ACM Conference on Electronic Commerce, Philadelphia, June 2013.
- Mini course on “Matching Markets: Theory and Practice,” Tel Aviv University, April-May 2013.
- Mini course on “Matching Markets: A Market Design Approach,” Nesin Mathematical Economics Summer School, Şirince, August 2012.
- Mini course on “Matching Markets: Theory and Practice,” Centre for Regional Economic and Public Policy, Deakin University/Centre for Market Design, University of Melbourne, Melbourne, July 2012.
- Mini course on “Matching Markets: Theory and Practice,” Center for Mathematical Studies in Economics and Management Science (CMS-EMS), Northwestern University, May 2012.
- Mini course on “Matching Theory,” University of Zurich, November 2011.
- Tutorial on “Matching Theory,” 16th Jerusalem Summer School in Economic Theory “Matching, Auctions, and Market Design,” Jerusalem, July 2005.

#### **Selected Press Coverage of Research:**

- “Lung exchanges Breathe deeply for the three of us,” *The Economist*, Free Exchange, 9/28/2014.

- “No Division Required in This School Problem,” *New York Times*, 3/12/ 2013.
- “A Market for Kidneys?” *Wall Street Journal*, 11/13/2007.
- “Undercover Economist: Stakes in Kidneys,” *Financial Times*, 6/13/2007.
- “Flesh Trade,” Freakonomics, *New York Times Magazine*, 7/9/2006.
- “Easing the Kidney Shortage,” *Wall Street Journal*, 6/17/2004.
- “Cross-donor system planned for region’s kidney patients,” *Boston Globe*, 6/5/2004.
- “School assignment flaws detailed Two economists study problem, offer relief,” *Boston Globe*, 9/12/2003.