

## 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

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

#### Refereed Journal Publications

1. “Redesigning the US Army’s Branching Process: A Case Study in Minimalist Market Design,” (joint with Kyle Greenberg and Parag Pathak). Conditionally accepted by *American Economic Review*.
2. “The First 4-Way Liver Paired Exchange from an Interdisciplinary Collaboration between Healthcare Professionals and Design Economists,” (joint with Sezai Yilmaz, Utku Ünver, Volkan Ince, Sami Akbulut, Burak Isik and Sukru Emre), forthcoming in *American Journal of Transplantation*.

3. “Fair Allocation of Vaccines, Ventilators and Antiviral Treatments: Leaving No Ethical Value Behind in Health Care Rationing,” (joint with Parag Pathak, Utku Ünver and M. Bumin Yenmez), forthcoming in *Management Science*.
4. “Use of a Weighted Lottery to Equitably Allocate Scarce Supply of COVID-19 Monoclonal Antibody Pre-exposure Prophylaxis,” (joint with Erin K. McCreary, Utibe R. Essien, Chung-Chou H. Chang, Rachel A. Butler, Parag Pathak, M. Utku Ünver, Ashley Steiner, Maddie Chrisman, Derek C. Angus and Douglas B. White), *JAMA Health Forum*, 2023;4(9):e232774.
5. “Immigration Lottery Design: Engineered and Coincidental Consequences of H-1B Reforms,” (joint with Parag Pathak and Alex Rees-Jones), forthcoming in *Review of Economics and Statistics*.
6. “Reversing Reserves,” (joint with Parag Pathak and Alex Rees-Jones), forthcoming in *Management Science*.
7. “Reserve System Design for Allocation of Scarce Medical Resources in a Pandemic: Some Perspectives from the Field,” (joint with with Parag Pathak, Govind Persad, and Utku Ünver), *Oxford Review of Economic Policy*, 38:4, 924-940, Winter 2022.
8. “A Multi-center Weighted Lottery to Equitably Allocate Scarce COVID-19 Therapeutics,” (joint with Douglas White, Erin McCreary, Chung-Chou Ho Chang, Mark Schmidhofer, Robert Truog, Govind Persad, Naudia Jonassaint, Parag Pathak, and Utku Ünver), *American Journal of Respiratory and Critical Care Medicine*, 206(4):503-506, August 15, 2022.
9. “Affirmative Action in India via Vertical, Horizontal, and Overlapping Reservations,” (joint with M. Bumin Yenmez), *Econometrica*, 90(3), 1143-1176, May 2022.
10. “Deduction Dilemmas: The Taiwan Assignment Mechanism,” (joint with Umut Dur, Parag Pathak, and Fei Song), *AEJ: Microeconomics*, 14(1), 164-85, February 2022.
11. “A Novel Approach to Equitable Distribution of Scarce Therapeutics: Institutional Experience Implementing a Reserve System for Allocation of COVID-19 Monoclonal Antibodies,” (joint with Emily Rubin, Scott Dryden-Peterson, Sarah Hammond,

- Inga Lennes, Alyssa Letourneau, Parag Pathak, and Utku Ünver), *CHEST Journal*, 160:6, 2323-31, December 2021.
12. “Reserve Systems for Allocation of Scarce Medical Resources During the COVID-19 Pandemic: The Path From April 2020 to April 2021,” (joint with Parag Pathak and Utku Ünver), *CHEST Journal* 160:4, 1572-1575, October, 2021.
  13. “Categorized Priority Systems: A New Tool for Fairly Allocating Scarce Medical Resources in the Face of Profound Social Inequities,” (joint with Parag Pathak, Utku Ünver, Govind Persad, Robert Truog, and Douglas White), *CHEST Journal* 159:3, 1294-1299, March 2021.
  14. “Covid-19: How to Prioritize Worse-off Populations in Allocating Safe and Effective Vaccines,” (joint with Harald Schmidt, Parag Pathak and Utku Ünver), *British Medical Journal*, 371:m3795, October 2020.
  15. “Incentivized Kidney Exchange,” (joint with Utku Ünver and M. Bumin Yenmez), *American Economic Review*, 110(7): 2198-2224, July 2020.
  16. “Efficient and Incentive Compatible Liver Exchange,” (joint with Haluk Ergin and Utku Ünver), *Econometrica*, 88(3): 965-1005, May 2020.
  17. “Explicit vs. Statistical Targeting in Affirmative Action: Theory and Evidence from Chicago’s Exam Schools,” (joint with Umut Dur and Parag Pathak), *Journal of Economic Theory*, 187, 104996, May 2020.
  18. “Reserve Design: Unintended Consequences and The Demise of Boston’s Walk Zones,” (joint with Umut Dur, Scott Duke Kominers, and Parag Pathak), *Journal of Political Economy*, 126(6): 2457-2479, December 2018.
  19. “How (not to) Integrate Blood Subtyping Technology to Kidney Exchange,” (joint with Utku Ünver and Özgür Yılmaz), *Journal of Economic Theory*, 176: 193-231, July 2018.
  20. “Dual-Donor Organ Exchange,” (joint with Haluk Ergin and Utku Ünver), *Econometrica*, 85(5): 1645-1671, September 2017.
  21. “Market Design for Living-Donor Organ Exchanges: An Economic Policy Perspective” (joint with Utku Ünver), *Oxford Review of Economic Policy*, 33(4): 676-704, November, 2017.

22. "School Choice Under Complete Information: An Experimental Study," (joint with Yan Chen and Yingzhi Liang), *Journal of Mechanism and Institution Design*, 1(1): 45-82, December 2016.
23. "Matching with Slot-Specific Priorities: Theory," (joint with Scott Duke Kominers), *Theoretical Economics*, 11(2), 683-710, May 2016.
24. "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) *INFORMS Journal on Applied Analytics*, 45-1: 26-42, January-February 2015.
25. "Altruistically Unbalanced Kidney Exchange" (joint with Utku Ünver), *Journal of Economic Theory*, 152: 105-129, July 2014.
26. "Matching with Contracts: Comment" (joint with Orhan Aygün), *American Economic Review*, 103(5): 2050-2051, August 2013.
27. "Bidding for Army Career Specialties: Improving the ROTC Branching Mechanism," *Journal of Political Economy*, 121(1): 186-219, February 2013.
28. "Matching with (Branch-of-Choice) Contracts at the United States Military Academy" (joint with Tobias Switzer), *Econometrica*, 81(2): 451-488, March 2013.
29. "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.
30. "House Allocation with Existing Tenants: A Characterization" (joint with Utku Ünver), *Games and Economic Behavior*, 69(2): 425-445, July 2010.
31. "Course Bidding at Business Schools" (joint with Utku Ünver), *International Economic Review*, 51(1): 99-123, Feb 2010.
32. "Leveling the Playing Field: Sincere and Strategic Players in the Boston Mechanism" (joint with Parag Pathak), *American Economic Review*, 98(4): 1636-1652, 2008.
33. "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.

34. "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.
35. "Utilizing List Exchange and Non-directed Donation through 'Chain' Paired Kidney Donation" (joint with Alvin Roth, Utku Ünver, Francis Delmonico and Susan Saidman), *American Journal of Transplantation* 6(11): 2694-2705, November 2006.
36. "School Choice: An Experimental Study" (joint with Yan Chen), *Journal of Economic Theory*, 127: 202-231, 2006.
37. "Games of School Choice under the Boston Mechanism" (joint with Haluk Ergin), *Journal of Public Economics*, 90: 215-237, 2006.
38. "Pairwise Kidney Exchange" (joint with Alvin Roth and Utku Ünver), *Journal of Economic Theory*, 125: 151-188, 2005.
39. "House Allocation with Existing Tenants: An Equivalence" (joint with Utku Ünver), *Games and Economic Behavior* 52:153-185, 2005.
40. "Kidney Exchange" (joint with Alvin Roth and Utku Ünver), *Quarterly Journal of Economics* 119: 457-488, 2004.
41. "Room Assignment-Rent Division: A Market Approach" (joint with Atila Abdulkadiroğlu and Utku Ünver), *Social Choice and Welfare* 22: 515-538, 2004.
42. "An Experimental Study of House Allocation Mechanisms" (joint with Yan Chen), *Economics Letters* 83: 137-140, 2004.
43. "School Choice: A Mechanism Design Approach" (joint with Atila Abdulkadiroğlu), *American Economic Review*, 93: 729-747, 2003.
44. "Ordinal Efficiency and Dominated Sets of Assignments" (joint with Atila Abdulkadiroğlu), *Journal of Economic Theory*, 112: 157-172, 2003.
45. "Improving Efficiency of On-Campus Housing: An Experimental Study" (joint with Yan Chen), *American Economic Review*, 92: 1669-1686, 2002.
46. "Core in a Simple Coalition Formation Game" (joint with Suryapratim Banerjee and Hideo Konishi), *Social Choice and Welfare*, 18: 135-153, 2001.

47. "House Allocation with Existing Tenants" (joint with Atila Abdulkadiroğlu), *Journal of Economic Theory*, 88: 233-260, 1999.
48. "Can Pre-Arranged Matches be Avoided in Two-Sided Matching Markets?" *Journal of Economic Theory*, 86: 148-156, 1999.
49. "Strategy-Proofness and Essentially Single-Valued Cores," *Econometrica*, 67: 677-689, 1999.
50. "A Tale of Two Mechanisms: Student Placement" (joint with Michel Balinski), *Journal of Economic Theory*, 84: 73-94, 1999.
51. "Random Serial Dictatorship and the Core from Random Endowments in House Allocation Problems" (joint with Atila Abdulkadiroğlu), *Econometrica*, 66: 689-701, 1998.
52. "Manipulation via Capacities in Two-Sided Matching Markets," *Journal of Economic Theory*, 77: 197-204, 1997.
53. "Games of Manipulation in Marriage Problems," *Games and Economic Behavior*, 20, 169-176, 1997.
54. "Implementation of College Admission Rules" (joint with Tarık Kara), *Economic Theory*, 9: 197-218, 1997.
55. "Implementation in Generalized Matching Problems," *Journal of Mathematical Economics*, 26: 429-439, 1996.
56. "Strategy-Proofness in Many-to-One Matching Problems," *Economic Design* 1: 365-380, 1996.
57. "Nash Implementation of Matching Rules" (joint with Tarık Kara), *Journal of Economic Theory* 68: 425-439, 1996.
58. "Consistency, Monotonicity, and the Uniform Rule," *Economics Letters*, 46, 229-235, 1994.

#### Other Publications:

1. "Fair Access to Scarce Medical Capacity for Non-Covid-19 Patients: A Role for Reserves," (joint with Govind Persad, Parag Pathak, and M Utku Ünver), *British Medical Journal* 2022; 376:o276.

2. Extended Abstract for “Fair Allocation of Vaccines, Ventilators and Antiviral Treatments: Leaving No Ethical Value Behind in Health Care Rationing,” (with Parag Pathak, Utku Ünver and Bumin Yenmez), *EC '21: Proceedings of the 22nd ACM Conference on Economics and Computation*, 785–786, 2021.
3. “Improving Ventilator Rationing Through Collaboration With Experts on Resource Allocation,” (joint with Parag Pathak and Utku Ünver), *JAMA Network Open*, June 19, 2020.
4. “Leverbytesprogram - framtid för Sverige?” (Liver Exchange - A future for Sweden?), (joint with Tommy Andersson and Utku Ünver), *Lakartidningen (The Journal of the Swedish Medical Association)* 115, E9YL, August 2018.
5. “Cadet-Branch Matching,” *ACM SIGecom Exchanges*, 13(1): 50-57, June 2014.
6. Extended Abstract for “Matching with Slot-Specific Priorities: Theory,” (with Scott Kominers), *EC'13: Proceedings of the 14th ACM Conference on Electronic Commerce*, 603–604, 2013.
7. “Market Design for Kidney Exchange,” (joint with Utku Ünver) Z. Neeman, A. Roth, N. Vulkan (eds.) *Oxford Handbook of Market Design*, Oxford, 2013.
8. “Matching Markets: Theory and Practice,” (joint with Atila Abdulkadiroğlu), *Advances in Economics and Econometrics*, D. Acemoglu, M. Arellano, and E. Dekel (eds), Cambridge, 2013.
9. “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.
10. “Kidney Paired Donation with Compatible Pairs,” (joint with Alvin Roth and Utku Ünver), *American Journal of Transplantation*, 8(2):463, Feb 2008.
11. “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.
12. “A Kidney Exchange Clearinghouse in New England” (joint with Alvin Roth and Utku Ünver), *American Economic Review Papers & Proceedings* 95-2: 376-380, 2005.

13. “The Boston Public School Match” (joint with Atila Abdulkadirođlu, Parag Pathak and Alvin Roth), *American Economic Review Papers & Proceedings* 95-2: 368-371, 2005.

#### **Working Papers:**

1. “Minimalist Market Design: A Framework for Economists with Policy Aspirations,” February 2023.
2. “Market Design for Social Justice: A Case Study on a Constitutional Crisis in India,” (joint with Utku Ünver), November 2022.
3. “Constitutional Implementation of Affirmative Action Policies in India,” (joint with M. Bumin Yenmez), March 2022.

#### **Awards, Professional Prizes, Honorific Elections and Citations:**

- 14 citations and name mention, *Nobel Memorial Prize in Economic Sciences Scientific Background 2012*.
- 2 citations, *Nobel Memorial Prize in Economic Sciences Scientific Background 2020*.
- Paper “Pairwise Kidney Exchange” selected in the issue “Articles celebrating the 50th anniversary of the Journal of Economic Theory,” as one of the most influential 50 papers in the journal in 50 years, 2020.
- 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:**

- National Science Foundation grant SES-1729778, “Liver Exchange,” 2017-2019.
- 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:**

- Invited Speaker, Special Lecture Series at University of Tokyo Market Design Center, July 2023.
- Invited Speaker, 2021 Delhi Winter School, Delhi School of Economics and The Econometric Society, December 2021.
- 54th Gilbert Memorial Lecture, University of Rochester, March 2021.
- Arrow Lecture, 14th International Meeting of the Society for Social Choice and Welfare, Seoul, June 2018.
- 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.

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

- “Vaccine Rollout Could Ease Crisis, But Who Gets it First?” *Washington Post*, 12/03/2020.
- “The Case for a Covid Vaccine Lottery,” *Bloomberg Opinion*, 11/09/2020.
- “Will the Hardest-Hit Communities Get the Coronavirus Vaccine?” *New York Times*, 10/30/2020.
- “Blood Banks Face a Generation Gap in Giving,” *Wall Street Journal*, 07/17/2020.
- “Who Gets the Covid-19 Vaccine First? Here’s One Idea,” *New York Times*, 07/23/2020.
- “How to End the Plasma Shortage for Coronavirus Patients,” *Bloomberg Opinion*, 05/11/2020.
- “Who Gets the Ventilator,” *Freakonomics*, 04/15/2020.
- “Markets Can Improve Rationing of Medical Supplies,” *Bloomberg Opinion*, 04/10/2020.
- “How an Economist Helped Thousands Get New a Kidney,” *BBC*, 12/17/2019.

- “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.