

VITA

**ALVIN E. ROTH**

April 2017

**DATE OF BIRTH:** 18 December 1951

**MARITAL STATUS:** Married, two children

**CITIZENSHIP:** USA

**ADDRESS:** Dept of Economics  
Stanford University  
Stanford, CA 94305-6072

alroth@stanford.edu  
(650) 725-9147  
<http://www.stanford.edu/~alroth/>

**EDUCATION:** Stanford University, Ph.D., 1974 (Operations Research)  
Stanford University, M.S., 1973 (Operations Research)  
Columbia University, B.S., 1971 (Operations Research)

**PRINCIPAL EMPLOYMENT:**

1/13- Craig and Susan McCaw Professor of Economics, Department of Economics, Stanford University  
Senior Fellow, Stanford Institute for Economic Policy Research; Professor, by courtesy, Management Science and Engineering

9/12-12/12 McCaw Senior Visiting Professor of Economics, Department of Economics, Stanford

12/12- George Gund Professor of Economics and Business Administration **Emeritus**, Harvard University.

8/98-12/12 George Gund Professor of Economics and Business Administration, Department of Economics, Harvard University, and Harvard Business School.

8/82 – 8/98 A.W. Mellon Professor of Economics, University of Pittsburgh. Also; Fellow, Center for Philosophy of Science (from 4/83); and (from 1/85) Professor of Business Administration, Graduate School of Business, University of Pittsburgh.

8/79 - 8/82 Professor, Department of Business Administration and Department of Economics, and (from 8/81) Beckman Associate, Center for Advanced Study, University of Illinois.

8/74 - 7/79 Assistant Professor and (from 8/77) Associate Professor, Department of Business Administration and Department of Economics, University of Illinois.

**OTHER APPOINTMENTS:**

1/78 - 6/78	Institute Associate at the Institute for Mathematical Studies in the Social Sciences, Stanford University.
5/86	Mendes-France Visiting Professor of Economics, The Technion, Haifa, Israel.
6/95	Bogen Visiting Professor, Department of Economics, Hebrew University of Jerusalem, Israel
7/95	Visiting Professor, Department of Economics, University of Tel Aviv, Israel.
8/98-present	National Bureau of Economic Research (NBER), Research Associate.
1/13-present	Stanford Institute for Economic Policy Research (SIEPR), Senior Fellow

**PROFESSIONAL HONORS AND AWARDS:**

Founders' Prize, Texas Instruments Foundation (1980).

Guggenheim Fellow ([1983-84](#)).

Fellow, Econometric Society (elected in [1983](#)).

Alfred P. Sloan Research Fellow ([1984-86](#)).

Lanchester Prize, Operations Research Society of America, [1990](#).

Fellow, American Academy of Arts and Sciences (elected [1998](#))

T.W. Schultz Prize, Dept. of Economics, University of Chicago, 2006.

Roth and Sotomayor: Twenty Years After, An ERID Matching Conference, co-sponsored by the Wallis Institute, Duke University, May 7-9, [2010](#)

NKR Terasaki Medical Innovation Award (shared with Itai Ashlagi), American Transplant Congress, Boston, June 4, [2012](#)

Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel, 2012, (Nobel Memorial Prize in Economics) shared with Lloyd Shapley, for "Stable Allocations and the Practice of Market Design." October 15 (and Dec 10). ([Nobelprize links](#); [blog links](#))

Fellow, American Association for the Advancement of Science (AAAS), elected November, [2012](#).

Economic Theory Fellow, Society for the Advancement of Economic Theory (SAET): April [2013](#).

[Member](#), National Academy of Sciences, elected April, [2013](#).

Doctor Honoris Causa (דוקטור לשם כבוד), Technion-Israel Institute of Technology, June 10, 2013 ([video](#), see at 1:22:30)

2013 [Golden Goose Award](#), jointly with [David Gale and Lloyd Shapley](#), Washington DC, September 2013. ([short video](#))

Doctor Honoris Causa, University of Amsterdam, January 8, [2014](#). ([video](#), see at 1:11:41)

Doctor of Humane Letters, Honoris Causa, University of Pittsburgh, February 28, [2014](#)

Charter Fellow, Society for Economic Measurement (SEM): [2014](#)

Doctor of Economics and Management Honoris Causa (Hedersdoktor), Lund University, June 5, [2014](#).

Doctor of Laws, Honoris Causa, Exeter University, July 16, [2015](#).

2016 John von Neumann Award, Rajk László Szakkollégium, Budapest September 6, [2016](#).

Honorary Editor, Journal of Behavioral and Experimental Economics (2017-)

Corresponding member, Real Academia de Ciencias Económicas y Financieras, Barcelona, March 30, [2017](#).

#### **UNIVERSITY AWARDS:**

"List of Excellent Teachers," 1977-80, University of Illinois.

1979 "College Educator of the Year" teaching award.

Chancellor's Distinguished Research Award, 1992, University of Pittsburgh.

Wyss Award for Excellence in Mentoring, 2008, Harvard Business School

Excellence in Mentoring Doctoral Students Award, 2011, Harvard Business School

Charles M. Williams Award for 2010-11 (teaching award), Harvard Business School

#### **OTHER AWARDS:**

1984 "[Ten Outstanding Young Americans](#)" award, United States Jaycees.

Honorary 7<sup>th</sup> Dan black belt in JKA Shotokan karate, presented by Sensei Masataka Mori in San Francisco, [2012](#).

Honorary Diploma, Martin Van Buren High School, NYC, and induction into the

MVB HS Hall of Fame, May 17, [2014](#).

**GRANTS:**

Principal Investigator, NSF Grant No. SOC 78-09928, "Game-Theoretic Models of Bargaining" 8/78 - 7/82.

Principal Investigator, NSF Grant No. SES 82-07690, "Game-Theoretic Models of Bargaining and Matching", 7/82 - 12/84.

Co-Principal Investigator, NSF Grant No. SES 79-15356, "Interactive Behavior Experiments" 10/79 - 12/86.

Principal Investigator - ONR Contract No. N00014-84-K-0263 "Strategic Interaction in Complex Environments," 5/84 - 4/88.

Co-Principal Investigator, NSF Grant No. SES-8609986, "Game-Theoretic Models of Bargaining," 6/86 - 12/88.

Principal Investigator, Russell Sage Foundation Grant, "Axiomatic Models of Bargaining, Related Strategic Models, and Experimental Evidence," 9/88 - 9/89.

Principal Investigator, Alfred P. Sloan Foundation Grant, "Entry Level Labor Markets for Elite Professionals," 9/88 - 12/91.

Principal Investigator, NSF Grant No. SES-8908696, "Coordination and Operation of Two-Sided Matching Markets: Theory and Evidence," 7/89-12/92

Principal Investigator, NSF Grant No. SES-9121968, "Jumping the Gun: Intertemporal Instability in Two-Sided Matching and Related Markets, Theory and Evidence," 7/92-10/95.

Principal Investigator, NSF Grant No. SBR-9507791, "Matching in centralized and decentralized labor markets," 8/1/95-7/31/02.

Principal Investigator, NSF Grant No. 9511848, "Toward Cognitive Game Theory: experimental investigation of learning and adaptive behavior," 9/1/95-8/31/05.

Co-Principal Investigator, NSF SBR 0094800 "Game Theory and Social Interactions: A Virtual Collaboratory for Teaching and Research," 2001-09.

Co-Principal Investigator, NSF SES-0339051, "Market Culture," 2004-10.

Co-Principal Investigator, NSF Grant No. 0616733, "Collaborative Research: Kidney Exchange," 2006-11.

Co-Principal Investigator, NSF Grant No. 1061932, "Collaborative Research on Kidney Exchange," 2011-16.

**SELECTED LECTURES**

"Laboratory Experimentation in Economics," Symposium of the Fifth World Congress of the Econometric Society, August, 1985.

"Bargaining Behavior: Theory and Experiment" (short course) 1<sup>st</sup> Jerusalem Summer School for Economic Theory, Institute for Advanced Studies, Hebrew University, June 17-27, 1990.

"Two-Sided Matching: Theory and Evidence," (short course) Dutch Quantitative Economics Network, December 10-14, 1990.

"Bargaining and Market Behavior in Jerusalem, Ljubljana, Pittsburgh, and Tokyo: An Experimental Study" Olin Distinguished Guest Lecture, Princeton University, April 8, 1991.

"First Jobs and College Bowl Bids: Patterns and Pathologies in the Timing of Market Transactions" Jacob Marschak Interdisciplinary Colloquium on Mathematics in the Behavioral Sciences, UCLA, April 3, 1992.

"Learning in Extensive-Form Games: Experimental Data and Simple Dynamic Models in the Intermediate Term," Nobel Symposium on Game Theory, Bjorkborn, Sweden, June 18-20, 1993.

"Getting Good Jobs: Strategic Behavior in Sports and Professional Labor Markets," Bogen Lecture in Economics, Hebrew University of Jerusalem, June 19, 1995.

"Getting Good Jobs: The Organization of Entry Level Labor Markets," Saul Nelson Lecture in Economics, Oberlin College, May 3, 1996.

"Game Theory in the Lab and in the Field," (short course), Summer School on Game Theory, Interuniversity Center for the Theory of Games (Italy), Certosa di Pontignano (Siena), July 8-13, 1996.

"Getting good jobs: the organization of entry-level professional labor markets," and "Experimental Studies of Learning," Hooker Lectures, McMaster University, Oct. 8,9, 1996.

"Game Theory, Experimental Economics, and Theoretical Computation: Foundations for Design Economics," Clarendon Lectures in Economics, Oxford University, April 1998.

"Towards a Cognitive Game Theory (Or: How to talk to your economist friends about rationality and irrationality)," Keynote address, Society for Judgement and Decision Making Annual Meeting, Dallas, November 23, 1998.

"The Economist as Engineer," George H. Leatherbee Lecture, Harvard Business School, April 21, 1999.

"Two Sided Matching: The interplay of cooperative and strategic questions," (short course) 10<sup>th</sup> Jerusalem Summer School for Economic Theory, Institute for Advanced Studies, Hebrew University, 15-24 June, 1999.

"The Economist as Engineer: Game theory, experimentation, and computation as tools of

design economics.” Fisher-Schultz Lecture, European meeting of the Econometric Society, Santiago de Compostela, August 31, 1999.

“The Economist as Engineer,” Pazner Lecture, University of Tel Aviv, Feb. 29, 2000.

“Last Minute Bidding and the Rules for Ending Second-Price Auctions: Theory and Evidence from a Natural Experiment on the Internet,” Symposium, First World Congress of the Game Theory Society (Games 2000), Bilbao, July 24, 2000.

“The Timing of Transactions,” Nobel symposium on Behavioral and Experimental Economics, Saltsjöbaden, Sweden, December 4-6, 2001.

“The Timing of Transactions,” (3 lectures) Jahnsson Lectures, Helsinki, June 3-5, 2002.

“The Timing of Transactions,” 10<sup>th</sup> Anniversary Lectures on Behavioral Economics, Center for Rationality, Hebrew University, Jerusalem, June 14, 2002.

“The Timing of Transactions,” (short course) 13<sup>th</sup> Jerusalem Summer School for Economic Theory, Institute for Advanced Studies, Hebrew University, 16-24 June, 2002.

“The Timing of Transactions,” and “Market Culture,” Arlitt Lectures, University of Texas at Austin, April 29, 30<sup>th</sup>, 2003.

“Kidney Exchange,” 19th Annual Lionel W. McKenzie Lecture, University of Rochester, March 29, 2004.

“Kidney Exchange,” Second World Congress of the Game Theory Society (Games 2004), Marseille, July 9, 2004.

“Some Theoretical Aspects of Kidney Exchange,” Pareto Lecture, ASSET meeting, Pompeu Fabra, Barcelona, November 6, 2004.

“Kidney Exchange,” 4<sup>th</sup> Barcelona Economics Lecture, CREA (Barcelona Economics), Hospital Clinic de Barcelona, November 8, 2004.

“Matching for Kidney Exchange,” Plenary Talk, Live Donor Paired Kidney Donation Consensus Meeting, Chicago, March 2, 2005.

“How do (matching) markets clear?” and “Reflections of a designing economist,” 15th Arrow Lectures, Stanford University, May 10-11, 2005.

“The Economist as Engineer: From design to adoption of matching-market clearinghouses; Theory, field data, experiments.” Wellington-Burnham Lecture, Tufts University, November 16, 2005.

“The Economist as Engineer,” The First Manchot Lecture, University of Bonn, January 20, 2006.

“Matching for Kidney Exchange,” Transplant Grand Rounds, University of Cincinnati College of Medicine, January 31, 2006.

"Matching of Residents and Fellows," Orthopedics Grand Rounds, Massachusetts General Hospital, April 26, 2006.

"What Have We Learned From Market Design?" Third Annual T.W.Schultz Memorial Lecture, May 23, 2006, University of Chicago.

"What have We Learned From Market Design?" Hahn Lecture, Royal Economic Society, April 11, 2007, University of Warwick.

"What Have We Learned From Market Design?" Robert Rosenthal Memorial Lecture, April 27, 2007, Boston University.

"Experiments for Market Design," Keynote address, LEaF 2007, *The 3rd London Conference on Laboratory Economics and the Field*, University College, London, June 1, 2007.

"Kidney Exchange and Market-Like Allocation" Keynote address, United Resource Networks National Clinical Conference, Minneapolis, September 30, 2007.

"Market Failure and Market Design," Google, October 11, 2007, online at <http://video.google.com/videoplay?docid=8717497583686568676>

"What have we learned from market design?" Yahoo Research, Big Thinker Lecture Series, October 15, 2007, online at <http://research.yahoo.com/node/1863>

"Kidney Exchange—in Sweden?" Keynote address, Annual Meeting, Royal Swedish Academy of Engineering Sciences (IVA), Stockholm, October 26, 2007.

"Design of a National Paired Donation Clearinghouse," United Network for Organ Sharing, Feb. 4 2008, Richmond, VA.

"Markets and Market-Like Allocation Procedures for Organs," Keynote address, *Frontiers of Ethics in Transplantation: Dilemmas and Struggles*, conference of the American Society of Transplant Surgeons and the Chicago Transplant Ethics Consortium, Chicago, April 5, 2008

"Kidney Exchange: Design and evolution of a computer-assisted matching mechanism," Match-UP 2008 (ICALP 2008), Reykjavik, July 6, 2008.

"Repugnant Transactions," 2008 Kahneman Lecture, IAREP world meeting, LUISS, Rome, September 4, 2008.

"Market Design and Kidney Exchange," Transplantation Society, TTS New Key Opinion Leader Meeting Jackson Hole, Wyoming, July 16-19, 2009

"Experiments in Market Design," 2010 Malim Harding Visitorship Lecture, University of Toronto, March 22, 2010.

"Market Design," 2010 Nancy L. Schwartz Memorial Lecture, Northwestern University, May 26, 2010.

“Kidney Exchange,” Inaugural IGIER seminar, Bocconi University, Milan, January 10, 2011.

“Kidney Exchange: Barter on a large scale, when lives are in the balance,” Alexander Brody Lecture, Yeshiva University, April 11, 2011.

Tutorial on Matching and Market Design (with Itai Ashlagi and Fuhito Kojima), Economic Commerce 2011, San Jose, June 6.

“Random Graph Models for Kidney Exchange,” Sir John Hicks Lecture, 12<sup>th</sup> SAET Conference, July 1, 2012, University of Queensland, Brisbane Australia.

“Kidney Exchange: Accomplishments and new challenges,” E.J. Hannan Lecture, Econometric Society Australasian Meeting, July 5, 2012, Melbourne, Australia.

“Who Gets What: The new economics of matchmaking and market design,” Sydney Ideas Lecture (public lecture), University of Sydney, July 10, 2012.

“The Theory and Practice of Market Design,” Nobel Lecture, Stockholm, December 8, 2012. <http://www.nobelprize.org/mediaplayer/index.php?id=1879>

“Kidney Exchange and other market and near-market approaches to transplantation,” Marsilius Lecture, University of Heidelberg, 7 February 2013

“Kidney Exchange: An Economist’s Perspective,” Keynote Lecture, American Transplant Congress, Seattle, May 19, 2013.

“Market Design and Computer-Assisted Markets: An Economist’s Perspective,” Keynote Lecture, Symposium on Visions of Computing, Simons Institute for the Theory of Computing, Berkeley, May 31, 2013.

“Kidney Exchange: Where We’ve Been and Where We Can Go From Here,” EC 13: ACM conference on Electronic Commerce, in Philadelphia, June 20, 2013.

“What have we learned from market design?” Gibson Lecture, Queens University, Kingston Ontario, 17 September 2013

“Matching markets and market design,” Marshall Lectures, Cambridge University, February 19 and 20, 2014.

[http://www.econ.cam.ac.uk/events/seminars/Marshall\\_Lecture/AlvinRoth.html](http://www.econ.cam.ac.uk/events/seminars/Marshall_Lecture/AlvinRoth.html)

“Computer-Assisted Smart Markets: From Labor Markets to Kidney Exchange,” Department of Computer Science Distinguished Lecture Series and Department of Economics Levine Family Lecture Series, UC Davis, March 6, 2014.

“Kidney Exchange and the Alliance for Paired Donation,” 2014 Edelman Competition, INFORMS Conference on Business Analytics and Operations Research, Boston, March 31, 2014. [https://www.pathlms.com/informs/events/217/thumbnail\\_video\\_presentations/5751](https://www.pathlms.com/informs/events/217/thumbnail_video_presentations/5751)

“Not for Sale! Repugnance as a Constraint on Markets,” Bold Aspirations Lecture Series, School of Business, Departments of Economics and Philosophy, University of Kansas, April 1 2014.

“Matching and Market Design” (short course) 25<sup>th</sup> Jerusalem Summer School in Economic Theory, June 23-July 2, 2014.

“Repugnant Transactions,” Arrow Lecture, Israel Institute for Advanced Studies, Jerusalem, June 30, 2014.  
<https://youtu.be/wwRyTTS5PIM?list=PLTn74Qx5mPsSvU93UHDWmLxo2sMHQuFJI>

“Market Design,” (mini-course), International Workshop of the Game Theory Society (in honor of Marilda Sotomayor’s 70<sup>th</sup> birthday), Sao Paulo Brazil, July 25-27 2014.

“Transplantation: One Economist’s Perspective,” State of the Art Address, World Transplant Congress, San Francisco, July 29, 2014

“Repugnant Markets and Prohibited Transactions,” 5<sup>th</sup> Lindau Meeting on Economic Sciences, August 20<sup>th</sup>, 2014.

“The Economist as Engineer,” Google Zeitgeist, Phoenix, September 16 2014.

“Market Design for Kidney Exchange,” J. Wesley Alexander Lecture, Surgical Grand Rounds, University of Cincinnati Department of Surgery.

“Market Design: Economists as Engineers,” opening plenary lecture, INFORMS14, San Francisco, Nov 9, 2014

“The Economist as Engineer,” Klein Lecture, University of Osaka, Dec 19, 2014.

“The Economist as Engineer: The New Economics of Matching and Market Design,” Comanor Lecture, Haverford College, March 23, 2015

“Kidney disease in Nigeria and the U.S., and possibilities of cooperation and mutual aid,” 2nd International Conference on African Development Issues at Covenant University, Ota, Nigeria, May 11, 2015

“Who Gets What and Why,” and “Kidney Exchange: Old and New,” July 14 and 15, 2015, at The Economist as an Engineer—A [workshop](#) in honour of Al Roth, Exeter University.

“Kidney Exchange: New Developments and Frontiers,” Frisch Memorial Lecture, 2015 World Congress of the Econometric Society, August 2015.

“Market Design and Medical Marketplaces,” Carver College of Medicine Distinguished Biomedical Scholar Lecture, University of Iowa, September 17, 2015.

“Who Gets What and Why: Markets and Marketplaces,” Ida Beam Lecture, U. of Iowa, September 18, 2015.

“Rigor and Relevance,” Centennial Lecture, University of Illinois College of Business, Oct 16, 2015.

“Market Design and Kidney Exchange,” Harnack Lecture, 2015, Harnack House, Berlin, Max Planck Gesellschaft, Oct 21, 2015.

“Repugnant Markets and Forbidden Transactions,” WZB Distinguished Lecture in Social

Sciences, Berlin, Oct 22, 2015 <https://www.youtube.com/watch?v=WLt7ReKzKUw>

“Repugnant Transactions,” Woodward Lecture, Vancouver School of Economics at the University of British Columbia, Nov 19, 2015.

“Who Gets What and Why: The Economics of Choices from School Admissions to Kidney Exchange,” Bank of Montreal Lecture, Simon Fraser University, Nov 19, 2015.

“Kidney Exchange: Algorithms and Incentives,” Simons Institute for the Theory of Computing, UC Berkeley, Nov 16, 2015, <https://youtu.be/exB1O3pTf7E>

“Markets, businesses and governments,” and “Market Design,” Financial University, Moscow, Nov 24, 2015.

“Who Gets What and Why,” W.P. Carey Lecture, Colorado College, Feb 4, 2016.

“Undue Incentives and Repugnant Transactions: One Economists Perspective,” American Society of Transplantation, Cutting Edge of Transplantation (CEOT) 2016: RESOLVING THE ORGAN SHORTAGE, Phoenix AZ, Feb 26, 2016.

“Who Gets What and Why,” European School for Management and Technology, Berlin, March 9. German National Library, March 11, 2016.

“Who Gets What and Why: The Economics of Matching and Market Design,” Steine Lecture, Vanderbilt University, March 22, 2016.

“Who Gets What and Why” and “Global Kidney Exchange,” Duke University Law School, March 23, 2016.

“The Economist as Engineer,” Tokyo Institute of Technology, April 5, 2016.

“The Uses of Market Design,” Japan Center for Economic Research, Tokyo, April 6, 2016.

“Who Gets What and Why: Matching Markets and Market Design,” Lucia Lecture, Villanova, April 18, 2016.

“Economists as Engineers: Game Theory and Market Design,” First Annual Aumann Lecture, 2016, Tel Aviv.

“Increasing the availability of transplants: One Economist’s Perspective,” Transplant Donation Global Leadership Symposium, Del Mar, CA, May 24 2016

“Who Gets What—and Why? The New Economics of Matchmaking and Market Design,” 2016 John von Neumann Lecture, September 6, 2016, Rajk László Szakkollégium, MAGYAR TUDOMÁNYOS AKADÉMIA, Budapest.

“Repugnant transactions and undue incentives,” Normative Ethics and Welfare Economics Conference, Harvard University, October 21-22, 2016.

“Kidney exchange and Global Kidney Exchange,” INCUCAI, Buenos Aires Argentina, November 17, 2016.

“Who Gets What and Why,” Reunión Anual de la Asociación Argentina de Economía Política: Tucuman, November 18, 2016.

“The New Economics of Matching and Market Design,” RISE Lecture, Rice University, Dec 2, 2016

**PROFESSIONAL ORGANIZATIONS:**

American Academy of Arts and Sciences  
 American Association for the Advancement of Science  
 American Economic Association  
 Economic Science Association (President 2011-13)  
 Econometric Society (Fellow)  
 Game Theory Society  
 Institute for Operations Research and Management Science

**SELECTED PROFESSIONAL SERVICE**

NSF Economics Panel (1985-87)  
 Board of Editors: American Economic Review (1986-88),  
 Games and Economic Behavior (1989-92)  
 Economic Theory (1991-98)  
 Journal Advisory Boards:  
 Journal of Risk and Uncertainty (1988- ),  
 Negotiation Journal (1984-1989),  
 Journal of Experimental Economics\_(1996- )  
 Game Theory Society (2000-)  
 Mathematics of Operations Research (2012-)  
 Program Committee: 7th World Congress, Econometric Society (Tokyo, 1995)  
 Senior Honors Examiner, Oberlin College, May 1996  
 Board of Governors, Technion, Israel Institute of Technology (2001-2007)  
 Council of the Econometric Society (2003-5, 2007-9, 2013-15)  
 Program Committee: Econometric Society Winter Meetings, 2008.  
 Chair, Ad Hoc Committee on the Job Market, American Economic Association, 2005-2013.  
 Economic Science Association: President Elect, July 2009-11, followed by President 2011-13, followed by Past President 2013-15.  
 American Economic Association: President Elect, 2016; President, 2017.

**OTHER**

The Institute for Innovation in Public School Choice, Chairman of the Board of Directors, (2006-2014), Chairman of the Scientific Advisory Board (2015-)  
 Advisory Board (NEPKE Advisory Committee), New England Program for Kidney Exchange (2006- 2011)  
 Advisory Board, New Orleans Exchange (2008-12 )  
 At Large Representative, OPTN/UNOS Kidney Paired Donation Work Group Committee (2009-2011, 2012-2014)  
 Member, OPTN/UNOS Kidney Paired Donation Pilot Program Strategic Planning Team (2011- )  
 Director, Market Design Group, Inc. (June 2009- )  
 Advisory Board, National Living Donor Assistance Center (NLDAC), 2016-

**ALVIN E. ROTH**

Publications

April 2017

**I. Books and Monographs**

1. Roth, A.E. *Axiomatic Models of Bargaining*, Lecture Notes in Economics and Mathematical Systems #170, Springer Verlag, 1979. ([http://kuznets.fas.harvard.edu/~aroth/Axiomatic\\_Models\\_of\\_Bargaining.pdf](http://kuznets.fas.harvard.edu/~aroth/Axiomatic_Models_of_Bargaining.pdf))
  2. Roth, A.E. (editor) *Game-Theoretic Models of Bargaining*, Cambridge University Press, 1985.
  3. Roth, A.E. (editor) *Laboratory Experimentation in Economics: Six Points of View*, Cambridge University Press, 1987. (Chinese translation, 2008)
  4. Roth, A.E. (editor) *The Shapley Value: Essays in Honor of Lloyd S. Shapley*, Cambridge University Press, 1988.
  5. Roth, A.E. and M. Sotomayor *Two-Sided Matching: A Study in Game-Theoretic Modeling and Analysis*, Econometric Society Monograph Series, Cambridge University Press, 1990. (Winner of the 1990 Lanchester Prize.) Paperback edition, 1992.
  6. Kagel, J.H. and A.E. Roth (editors) *Handbook of Experimental Economics*, Princeton University Press, 1995.
  7. Holmstrom, Bengt, Paul Milgrom, and Alvin E. Roth (editors) *Game Theory in the Tradition of Bob Wilson*, Berkeley Electronic Press, 2002. (<http://www.bepress.com/wilson>)
  8. Nir Vulkan, Zvika Neeman, and Alvin E. Roth (editors) *The Handbook of Market Design*. Oxford: Oxford University Press ([2013](#)).
- Roth, Alvin E. Gary E. Bolton, and Paul Klemperer, “*Diseño de Mercados*,” Breviarios del Fondo de Cultura Economica, Mexico, Translated by Karina Azanza, Maria Teresa Franco Gonzalez, and Brian McDougall ([2014](#)) [Spanish translation of Chapters 1-3 of *The Handbook of Market Design*.
9. Roth, A.E. *Who Gets What—and Why: The New Economics of Matchmaking and Market Design*, An Eamon Dolan Book, Houghton Mifflin Harcourt, Boston, New York, [2015](#). (Translations—2015: [British](#); [Romanian](#); [Dutch](#); [German](#); 2016: [Korean](#); Spanish--[Spain](#), [Latin America](#); [Russian](#); [Turkish](#); [Japanese](#); Chinese—[mainland](#), [traditional](#); [Portuguese](#); 2017: [Czech](#); [Polish](#); [Italian](#))
  10. Kagel, J.H. and A.E. Roth (editors) *Handbook of Experimental Economics*, Volume 2, Princeton University Press, September 2016.

## II. Papers

1. Roth, A.E. "A Lattice Fixed-Point Theorem with Constraints," *Bulletin of The American Mathematical Society*, Vol. 81, January, 1975, 136-138.
2. Roth, A.E. "Subsolutions and the Supercore of Cooperative Games," *Mathematics of Operations Research*, Vol. 1, February, 1976, 43-49.
3. Roth, A.E. "Individual Rationality and Nash's Solution to the Bargaining Problem," *Mathematics of Operations Research*, Vol. 2, February, 1977, 64-65.  
  
Reprinted in *Critical Perspectives on Game Theory*, Yanis Varoufakis, editor, Routledge, 2001.  
Reprinted in *Bargaining and the Theory of Cooperative Games: John Nash and Beyond*, William Thomson, editor, Edward Elgar, 2010.
4. Roth, A.E. "The Shapley Value as a von Neumann-Morgenstern Utility," *Econometrica*, Vol. 45, April, 1977, 657-664.
5. Roth, A.E. "A Fixed Point Approach to Stability in Cooperative Games," *Fixed Points: Algorithms and Applications*, S. Karamardian, ed., Academic Press, 1977, 165-180.
6. Murnighan, J.K. and Roth, A.E. "The Effects of Communication and Information Availability in an Experimental Study of a Three Person Game," *Management Science*, Vol. 23, August, 1977, 1336-1348.
7. Roth, A.E. and Postlewaite, A. "Weak Versus Strong Domination in a Market with Indivisible Goods," *Journal of Mathematical Economics*, Vol. 4, August 1977, 131-137.
8. Roth, A.E. "A Note on Values and Multilinear Extensions," *Naval Research Logistics Quarterly*, Vol. 24, September, 1977, 517-520.
9. Roth, A.E. "Bargaining Ability, the Utility of Playing a Game, and Models of Coalition Formation." *Journal of Mathematical Psychology*, Vol. 16, October, 1977, 153-160.
10. Roth, A.E. "Utility Functions for Simple Games," *Journal of Economic Theory*, Vol. 16, 1977, 481-489.
11. Roth, A.E. "Independence of Irrelevant Alternatives and Solutions to Nash's Bargaining Problem," *Journal of Economic Theory*, Vol. 16, 1977, 247-251.  
Reprinted in *Bargaining and the Theory of Cooperative Games: John Nash and Beyond*, William Thomson, editor, Edward Elgar, 2010.
12. Roth, A.E. "Two Person Games on Graphs," *Journal of Combinatorial Theory, Series B.*, Vol. 24, 1978, 238-241.
13. Roth, A.E. "The Nash Solution and the Utility of Bargaining," *Econometrica*, Vol. 46, 1978, 587-594,983.

14. Roth, A.E. "A Note Concerning Asymmetric Games on Graphs," *Naval Research Logistics Quarterly*, Vol. 25, 1978, 365-367.
15. Roth, A.E. and Murnighan, J.K. "Equilibrium Behavior and Repeated Play of the Prisoners' Dilemma," *Journal of Mathematical Psychology*, Vol. 17, 1978, 189-198.
16. Murnighan, J.K. and Roth, A.E. "Large Group Bargaining in a Characteristic Function Game," *Journal of Conflict Resolution*, Vol. 22, 1978, 299-317.
17. Roth, A.E. "Power and Position: The Utility of Playing a Simple Game," *Game Theory and Political Science*, P.C. Ordeshook, ed., New York University Press, New York, 1978, 463-475.
18. Blair, C. and Roth, A.E. "An Extension and Simple Proof of a Constrained Lattice Fix-Point Theorem," *Algebra Universalis*, Vol. 9, 1979, 131-132.
19. Roth, A.E. "Proportional Solutions to the Bargaining Problem," *Econometrica*, Vol. 47, 1979, 775-778.
20. Roth, A.E. and Verrecchia, R.E. "The Shapley Value as Applied to Cost Allocation: A Reinterpretation", *Journal of Accounting Research*, Vol. 17, 1979, 295-303.
21. Roth, A.E. and Malouf, M.K. "Game-Theoretic Models and the Role of Information in Bargaining", *Psychological Review*, Vol. 86, 1979, 574-594.
22. Roth, A.E. "An Impossibility Result Concerning n-Person Bargaining Games," *International Journal of Game Theory*, Vol. 8, 1979, 129-132.  
Reprinted in *Bargaining and the Theory of Cooperative Games: John Nash and Beyond*, William Thomson, editor, Edward Elgar, 2010.
23. Roth, A.E. "Values for Games Without Sidepayments: Some Difficulties With Current Concepts," *Econometrica*, Vol. 48, 1980, 457-465.  
Reprinted in Aumann, Robert *Collected Papers*, Volume II, MIT Press, 2000, 485-494.
24. Roth, A.E. "The Nash Solution as a Model of Rational Bargaining," *Extremal Methods and Systems Analysis*, A.V. Fiacco and K.O. Kortanek, eds., Springer Verlag, 1980, 306-311.
25. Murnighan, J.K. and Roth, A.E. "The Effect of Group Size and Communication Availability on Coalition Bargaining in a Veto Game," *Journal of Personality and Social Psychology*, 39, 1980, 92-103.
26. Malouf, M. and Roth, A.E. "Disagreement in Bargaining: An Experimental Study," *Journal of Conflict Resolution*, Vol. 25, 1981, 329-348.
27. DeBrock, L.M. and Roth, A.E. "Strike Two: Labor Management Negotiations in Major League Baseball," *Bell Journal of Economics*, Vol. 12, 1981, 413-425.
28. Roth, A.E., Malouf, M., and Murnighan, J.K. "Sociological Versus Strategic Factors in Bargaining," *Journal of Economic Behavior and Organization*, Vol. 2, 1981, 153-177.
29. Kihlstrom, R., Roth, A.E. and Schmeidler, D. "Risk Aversion and Solutions to Nash's Bargaining Problem," *Game Theory and Mathematical Economics*, O. Moeschlin and D. Pallaschke, eds., Amsterdam, North-Holland, 1981, 65-71.

Reprinted in *Bargaining and the Theory of Cooperative Games: John Nash and Beyond*, William Thomson, editor, Edward Elgar, 2010.

30. Roth, A.E., and Malouf, M. "Scale Changes and Shared Information in Bargaining: An Experimental Study," *Mathematical Social Sciences*, Vol. 3, 1982, 157-177.
31. Roth, A.E. and Rothblum, U. "Risk Aversion and Nash's Solution for Bargaining Games With Risky Outcomes," *Econometrica*, Vol. 50, 1982, 639-647.  
Reprinted in *Bargaining and the Theory of Cooperative Games: John Nash and Beyond*, William Thomson, editor, Edward Elgar, 2010.
32. Roth, A.E. "The Economics of Matching: Stability and Incentives," *Mathematics of Operations Research*, Vol. 7, 1982, 617-628.
33. Roth, A.E. and Murnighan, J.K. "The Role of Information in Bargaining: An Experimental Study," *Econometrica*, Vol. 50, 1982, 1123-1142.
34. Roth, A.E. "Incentive Compatibility in a Market with Indivisible Goods", *Economics Letters*, Vol. 9, 1982, 127-132.
35. Kihlstrom, R. and Roth, A.E. "Risk Aversion and the Negotiation of Insurance Contracts", *Journal of Risk and Insurance*, Vol. 49, 1982, 372-387.  
Reprinted in *Foundations of Insurance Economics*, G. Dionne and S.E. Harrington, editors, Kluwer, 1992, 264-279.
36. Roth, A.E. "A Note on the Maximin Value of Two Person, Zero-Sum Games", *Naval Research Logistics Quarterly*, Vol. 29, 1982, 521-527.
37. Murnighan, J.K. and Roth, A.E. "Expecting Continued Play in Prisoner's Dilemma Games: A Test of Three Models." *Journal of Conflict Resolution*, Vol. 27, 1983, 279-300.
38. Roth, A.E. and Schoumaker, F. "Expectations and Reputations in Bargaining: An Experimental Study", *American Economic Review*, Vol. 73, 1983, 362-372.
39. Roth, A.E. and Murnighan, J.K. "Information and Aspirations in Two Person Bargaining", *Aspiration Levels in Bargaining and Economic Decision Making*, R. Tietz, ed., Springer, 1983.
40. Roth, A.E. and Schoumaker, F. "Subjective Probability and the Theory of Games: Some Further Comment", *Management Science*, Vol. 11, 1983, 1337-1340.
41. Roth, A.E. "Towards a Theory of Bargaining: An Experimental Study in Economics", *Science*, Vol. 220, 13 May, 1983, 687-691.
42. Roth, A.E. "Stable Coalition Formation: Aspects of a Dynamic Theory", *Coalitions and Collective Action*, M. Holler, ed., Wuerzberg, Physica-Verlag, 1984, 228-234.
43. Roth, A.E. "Stability and Polarization of Interests in Job Matching", *Econometrica*, Vol. 52, 1984, 47-57.
44. Roth, A.E. "The Evolution of the Labor Market for Medical Interns and Residents: A Case Study in Game Theory", *Journal of Political Economy*, Vol. 92, 1984, 991-1016.

45. Roth, A.E. "Misrepresentation and Stability in the Marriage Problem", *Journal of Economic Theory*, Vol. 34, 1984, 383-387.
46. Roth, A.E. "A Note on Risk Aversion in a Perfect Equilibrium Model of Bargaining", *Econometrica*, Vol. 53, 1985, 207-211.
47. Roth, A.E. "Conflict and Coincidence of Interest in Job Matching: Some New Results and Open Questions", *Mathematics of Operations Research*, Vol. 10, 1985, 379-389.
48. Roth, A.E. "Toward a Focal-Point Theory of Bargaining", *Game-Theoretic Models of Bargaining*, A.E. Roth, ed., Cambridge University Press, 1985, 259-268.
49. Roth, A.E. "Some Additional Thoughts on Post-Settlement Settlements", *Negotiation Journal: On the Process of Dispute Settlement*, Vol. 1, 1985, 245-247.  
Reprinted in *Negotiation Theory and Practice*, J.W. Breslin and J.Z. Rubin, editors, PON Books, Program on Negotiation, Harvard Law School, 1991, 327-329.
50. Roth, A.E. "Further Thoughts on the Power of Alternatives: An Example From Labor-Management Negotiations in Major League Baseball," *Negotiation Journal: On the Process of Dispute Settlement*, Vol. 1, 1985, 359-362.
51. Roth, A.E. "The College Admissions Problem is not Equivalent to the Marriage Problem," *Journal of Economic Theory*, Vol. 36, 1985, 277-288.
52. Roth, A.E. "Common and Conflicting Interests in Two-Sided Matching Markets," *European Economic Review*, (Special issue on Market Competition, Conflict, and Collusion) 27, 1985, 75-96.
53. Roth, A.E. "On the Allocation of Residents to Rural Hospitals: A General Property of Two-Sided Matching Markets," *Econometrica*, Vol. 54, 1986, 425-427.
54. Mongell, S.J. and Roth, A.E. "A Note on Job Matching with Budget Constraints," *Economics Letters*, Vol. 21, 1986, 135-138.
55. Roth, A.E. "On the Non-Transferable Utility Value: a Reply to Aumann," *Econometrica*, Vol. 54, 1986, 981-984.  
Reprinted in Aumann, Robert *Collected Papers*, Vol II, MIT Press, 2000.
56. Roth, A.E. "Laboratory Experimentation in Economics," *Advances in Economic Theory, Fifth World Congress*, Truman Bewley, editor, Cambridge University Press, 269-299, 1987.  
Preprinted in *Economics and Philosophy*, Vol. 2, 1986, 245-273.
57. Roth, A.E. "Laboratory Experimentation in Economics, and Its Relation to Economic Theory," *Scientific Inquiry in Philosophical Perspective*, Nicholas Rescher, editor, Lanham, University Press of America, 1987, 147-167.
58. Roth, A.E. "Bargaining Phenomena and Bargaining Theory," *Laboratory Experimentation in Economics: Six Points of View*, A.E. Roth, ed., Cambridge University Press, 1987, 14-41.
59. Roth, A.E. and M. Sotomayor "Interior Points in the Core of Two-Sided Matching Markets," *Journal of Economic Theory*, Vol. 45, 1988, 85-101.
60. Murnighan, J.K., Roth, A.E., and Schoumaker, F. "Risk Aversion in Bargaining: An Experimental

Study," *Journal of Risk and Uncertainty*, Vol. 1, 1988, 101-124.

61. Roth, A.E., Murnighan, J.K., and Schoumaker, F. "The Deadline Effect in Bargaining: Some Experimental Evidence," *American Economic Review*, Vol. 78, 1988, 806-823.
62. Roth, A.E. "The Expected Utility of Playing a Game," *The Shapley Value: Essays in Honor of Lloyd S. Shapley*, A.E. Roth, ed., Cambridge University Press, 1988, 51-70.
63. Roth, A.E. "Laboratory Experimentation in Economics: A Methodological Overview," *Economic Journal*, Vol. 98, 1988, 974-1031.  
  
 Reprinted in A.J. Oswald, ed., *Surveys in Economics, On Behalf of the Royal Economic Society*, Vol. 2, Basil Blackwell, 1991, 90-147.  
 Reprinted in J.D. Hey and G. Loomes, eds., *Recent Developments in Experimental Economics: Volume I*, Edward Elgar, 1993, 3-60.
64. Roth, A.E. and Sotomayor, M. "The College Admissions Problem Revisited," *Econometrica*, Vol. 57, 1989, 559-570.
65. Ochs, J. and Roth, A.E. "An Experimental Study of Sequential Bargaining," *American Economic Review*, Vol. 79, 1989, 355-384.  
 Reprinted in J.D. Hey and G. Loomes, eds., *Recent Developments in Experimental Economics: Volume II*, Edward Elgar, 1993, 28-57.  
 Reprinted in J.F. Shogren (editor), *Experiments in Environmental Economics*, Ashgate, Aldershot, 2003.
66. Roth, A.E. "Two Sided Matching with Incomplete Information about Others' Preferences," *Games and Economic Behavior*, Vol. 1, 1989, 191-209.
67. Roth, A.E. "Risk Aversion and the Relationship between Nash's Solution and Subgame Perfect Equilibrium of Sequential Bargaining," *Journal of Risk and Uncertainty*, Vol. 2, 1989, 353-365.
68. Roth, A.E. "Two-Sided Matching Markets: An Overview of Some Theory and Empirical Evidence," *Game Theory and Applications*, T. Ichiishi, A. Neyman, and Y. Tauman, eds., Academic Press, 1990, 232-251.
69. Roth, A.E. and Vande Vate, J.H. "Random Paths to Stability in Two-Sided Matching," *Econometrica*, 58, 1990, 1475-1480.
70. Roth, A.E. "New Physicians: A Natural Experiment in Market Organization," *Science*, 250, 1990, 1524-1528.  
  
 Reprinted in *Price Theory and Its Applications*, F.M. Scherer & Bernard Saffran, editors, The International library of critical writings in economics, Edward Elgar, 1998, 165-169.
71. Roth, A.E. and Vande Vate, J.H. "Incentives in Two-Sided Matching with Random Stable Mechanisms," *Economic Theory*, 1991, vol. 1., no. 1, 31-44.
72. Roth, A.E. "Game Theory as a Part of Empirical Economics," *Economic Journal*, January 1991, vol. 101, 107-114.  
 Reprinted in *The Future of Economics*, John Hey, editor, Basil Blackwell, 1992.

Reprinted in Japanese translation (as "Game Theory as Experimental Science,"), Dobunshoin International, 1992, 231-248.

Reprinted in German translation as "Spieltheorie als Teil der empirischen Wirtschaftswissenschaft" in *Die ökonomische Wissenschaft in der Zukunft--Ansichten führender Ökonomen* (Economic Science in the Future--Perspectives by Leading Economists), H. Hanusch, editor, 1992, 334-345.)

Reprinted in *ECONOMIC GAMES, BARGAINING AND SOLUTIONS*, Hamouda, O.F. and Rowley, J.C.R, editors, Edward Elgar, 1997.

73. Roth, A.E. "An Economic Approach to the Study of Bargaining," *Handbook of Negotiation Research*, Volume III of *Research on Negotiations in Organizations*, M.H. Bazerman, R.J. Lewicki, and B.H. Sheppard, editors, JAI Press, 1991, 35-67.
74. Roth, A.E. "A Natural Experiment in the Organization of Entry Level Labor Markets: Regional Markets for New Physicians and Surgeons in the U.K.," *American Economic Review*, vol. 81, June 1991, 415-440.
75. Mongell, S. and Roth, A.E. "Sorority Rush as a Two-Sided Matching Mechanism," *American Economic Review*, vol. 81, June 1991, 441-464.
76. Roth, A.E., Prasnikar, V., Okuno-Fujiwara, M., and Zamir, S. "Bargaining and Market Behavior in Jerusalem, Ljubljana, Pittsburgh, and Tokyo: An Experimental Study," *American Economic Review*, vol. 81, December 1991, 1068-1095.

Reprinted in E.L. Khalil, editor, *Trust*, Edward Elgar, 2003.

Translated as ""Negoziazione e Comportamento di Mercato a Gerusalemme, Lubiana, Pittsburgh e Tokio: Uno Studio Sperimentale", pp. 255-291." in *Economia Cognitiva e Sperimentale*, edited by Matteo Motterlini and Francesco Guala. Milan: Universita' Bocconi Editore, 2005.

77. Prasnikar, V. and Roth, A.E. "Considerations of Fairness and Strategy: Experimental Data From Sequential Games," *Quarterly Journal of Economics*, August, 1992, 865-888.

Reprinted in J.D. Hey and G. Loomes, eds., *Recent Developments in Experimental Economics: Volume II*, Edward Elgar, 1993, 58-84.

78. Roth, A.E. and Sotomayor, M. "Two Sided Matching," *Handbook of Game Theory with Economic Applications*, Robert Aumann and Sergiu Hart, editors, Elsevier, North Holland, 1992, 485-541.
79. Kagel, J.H. and Roth, A.E. "Theory and Misbehavior in First-Price Auctions: Comment," *American Economic Review*, vol. 82, December 1992, 1379-1391.
80. Roth, A.E., Rothblum, U.G., and Vande Vate, J.H. "Stable Matchings, Optimal Assignments, and Linear Programming," *Mathematics of Operations Research*, 18, 1993, 803-828. (An extended summary of these results, without proofs, appears as "Stable Marriages: Substituting Linearity for Discreteness," *Linear Algebra and Its Applications*, vol. 167, 1992, 252-257.)
81. Roth, A.E. "On the Early History of Experimental Economics," *Journal of the History of Economic Thought*, 15, Fall, 1993, 184-209.

82. Roth, A.E. "Let's Keep the Con Out of Experimental Econ." *Empirical Economics* (Special Issue on Experimental Economics), 1994, 19, 279-289.  
 Reprinted in J.D. Hey (editor), *Experimental Economics*, Physica Verlag, Heidelberg, 1994, 99-109.  
 Reprinted in J.F. Shogren (editor), *Experiments in Environmental Economics*, Ashgate, Aldershot, 2003.
83. Roth, A.E. and X. Xing "Jumping the Gun: Imperfections and Institutions Related to the Timing of Market Transactions," *American Economic Review*, 84, September, 1994, 992-1044.  
 Reprinted in M. Bazerman (editor), *Negotiation, Decision Making and Conflict Management*, Edward Elgar, 2005.
84. Roth, A.E. and I. Erev "Learning in Extensive-Form Games: Experimental Data and Simple Dynamic Models in the Intermediate Term," *Games and Economic Behavior*, Special Issue: Nobel Symposium, vol. 8, January 1995, 164-212.
85. Roth, A.E. "Introduction to Experimental Economics," *Handbook of Experimental Economics*, John Kagel and Alvin E. Roth, editors, Princeton University Press, 1995, 3-109.
86. Roth, A.E. "Bargaining Experiments," *Handbook of Experimental Economics*, John Kagel and Alvin E. Roth, editors, Princeton University Press, 1995, 253-348.
87. Roth, A.E. "Adaptive Behavior and Strategic Rationality: Evidence From the Laboratory and the Field," *The Rational Foundations of Economic Behavior: Proceedings of the IEA Conference held in Turin, Italy*, K. Arrow, E. Colombatto, M. Perlman, and C. Schmidt, eds., Macmillan, 1996, 255-273.
88. Roth, A.E. "Individual Rationality as a Useful Approximation: Comments on Tversky's 'Rational Theory and Constructive Choice'," *The Rational Foundations of Economic Behavior: Proceedings of the IEA Conference held in Turin, Italy*, K. Arrow, E. Colombatto, M. Perlman, and C. Schmidt, editors, Macmillan, 1996, 198-202.
89. Roth, A.E. "The National Resident Matching Program as a labor market," *JAMA. Journal of the American Medical Association*, April 3, 1996, 275, No. 13, (Pulse), 1054-1056.
90. Roth, A.E. and M. Sotomayor "Stable Outcomes in Discrete and Continuous Models of Two-Sided Matching: A Unified Treatment," *Revista de Econometria, The Brazilian Review of Econometrics*, 16, 2, Novembro de 1996, 1-24.
91. Roth, A.E. and X. Xing "Turnaround Time and Bottlenecks in Market Clearing: Decentralized Matching in the Market for Clinical Psychologists," *Journal of Political Economy*, 105, April 1997, 284-329.
92. Roth, A. E. and Elliott Peranson, "The effects of the change in the NRMP matching algorithm," *JAMA. Journal of the American Medical Association*, September 3, 1997, 729-732.
93. Blum, Y., A.E. Roth, and U.G. Rothblum "Vacancy Chains and Equilibration in Senior-Level Labor Markets," *Journal of Economic Theory*, 76, 2, October 1997, 362-411.
94. Slonim, R. and A.E. Roth "Learning in High Stakes Ultimatum Games: An Experiment in the Slovak

Republic," *Econometrica*, 66,3, May 1998, 569-596.

95. Erev, Ido and A.E. Roth "Predicting how people play games: Reinforcement learning in experimental games with unique, mixed strategy equilibria," *American Economic Review*, 88,4, September, 1998, 848-881.

Reprinted in *New Developments in Experimental Economics*, Enrica Carbone, and Chris Starmer, editors, Edward Elgar, 2007.

Reprinted in *Judgement and Decision Making*, Nick Chater, ed., Sage, 2009.

96. Erev, Ido and Alvin E. Roth "On the role of reinforcement learning in experimental games: The cognitive game theory approach," In D. Budescu, I Erev & R. Zwick (eds.) *Games and Human Behavior: Essays in Honor of Amnon Rapoport*, Erlbaum, 1999, 53-77.

97. Roth, A.E. and U.G. Rothblum "Truncation Strategies in Matching Markets--In Search of Advice for Participants," *Econometrica*, 67, January, 1999, 21-43.

98. Roth, A.E. and E. Peranson, "The Redesign of the Matching Market for American Physicians: Some Engineering Aspects of Economic Design," *American Economic Review*, 89, 4, September, 1999, 748-780.

Reprinted in Holmstrom, B., P. Milgrom, and A. E. Roth (editors) *Game Theory in the Tradition of Bob Wilson*, Berkeley Electronic Press, 2002. (<http://www.bepress.com/wilson/>)

99. Erev, Ido, Yoella Bereby-Meyer, and Alvin E. Roth, "The effect of adding a constant to all payoffs: Experimental investigation, and a reinforcement learning model with self-adjusting speed of learning," *Journal of Economic Behavior and Organization*, 39,1 May, 1999, 111-128.

100. Roth, Alvin E., "Game Theory as a Tool for Market Design", *Game Practice: Contributions from Applied Game Theory*, Fioravante Patrone, Ignacio García-Jurado, Stef Tijs, editors, Kluwer, 2000, 7-18.

101. Kagel, John H. and A.E. Roth, "The dynamics of reorganization in matching markets: A laboratory experiment motivated by a natural experiment," *Quarterly Journal of Economics*, February, 2000, 201-235.

102. Avery, Christopher, Christine Jolls, Richard A. Posner, and Alvin E. Roth, "The Market for Federal Judicial Law Clerks", *University of Chicago Law Review*, 68, 3, Summer, 2001, 793-902.

103. Erev, Ido, Alvin E. Roth, Robert L. Slonim, and Greg Barron, "Predictive value and the usefulness of game theoretic models," *International Journal of Forecasting*, Vol. 18 (3) (2002) pp. 359-368

104. Roth, Alvin E. "The Economist as Engineer: Game Theory, Experimental Economics and Computation as Tools of Design Economics," Fisher Schultz lecture, *Econometrica*, 70, 4, July 2002, 1341-1378.

Reprinted in M. Bazerman (editor), *Negotiation, Decision Making and Conflict Management*, Edward Elgar, 2005.

105. Roth, Alvin E. and Axel Ockenfels "Last-Minute Bidding and the Rules for Ending Second-Price Auctions: Evidence from eBay and Amazon Auctions on the Internet," *American Economic Review*, 92 (4), September 2002, 1093-1103.

Reprinted in *New Developments in Experimental Economics*, Enrica Carbone, and Chris Starmer, editors, Edward Elgar, 2007.

106. Ockenfels, Axel and Alvin E. Roth, "The Timing of Bids in Internet Auctions: Market Design, Bidder Behavior, and Artificial Agents," *AI Magazine*, Fall 2002, 79-88.
107. Roth, Alvin E. "The origins, history, and design of the resident match," *JAMA. Journal of the American Medical Association*, vol. 289, No. 7, February 19, 2003, 909-912.
108. Niederle, Muriel and Alvin E. Roth, "Relationship Between Wages and Presence of a Match in Medical Fellowships," *JAMA. Journal of the American Medical Association*, vol. 290, No. 9, September 3, 2003, 1153-1154.
  - Niederle, Muriel and Alvin E. Roth, "Effect of a Match on Salaries for Medical Fellows—Reply," *JAMA. Journal of the American Medical Association*; 290, No. 18, November 12, 2003, 2408.
109. Cooper, David J., Nick Feltovich, Alvin E. Roth, and Rami Zwick, "Relative versus Absolute Speed of Adjustment in Strategic Environments: Responder Behavior in Ultimatum Games," *Experimental Economics*, vol. 6, no. 2, 2003, 181-207.
110. Gneezy, Uri, Ernan Haruvy, and Alvin E. Roth, "Bargaining Under a Deadline: Evidence from the Reverse Ultimatum Game," *Games and Economic Behavior*, Special Issue in Honor of Robert W. Rosenthal, 45, 2, November 2003, 347-368
111. Niederle, Muriel and Alvin E. Roth, "Unraveling reduces mobility in a labor market: Gastroenterology with and without a centralized match," *Journal of Political Economy*, 111, 6, December 2003, 1342-1352.
112. Holt, Charles A. and Alvin E. Roth, "The Nash Equilibrium: A Perspective," *Proceedings of the National Academy of Sciences, USA*, 101, 12, March 23, 2004, 3999-4002.
113. Roth, Alvin E., Tayfun Sönmez and M. Utku Ünver, "Kidney Exchange," *Quarterly Journal of Economics*, 119, 2, May, 2004, 457-488.
114. Niederle, Muriel and Alvin E. Roth, "The Gastroenterology Fellowship Match: How it failed, and why it could succeed once again," *Gastroenterology*, 127, 2 August 2004, 658-666.
  - a. Niederle, Muriel, and Alvin E. Roth, "Re-starting the Gastroenterology Match," letter, *American Journal of Gastroenterology*, vol. 100, no. 5, May, 2005, 1202-1203.
115. Katok, Elena, and Alvin E. Roth, "Auctions of Homogeneous Goods with Increasing Returns: Experimental Comparison of Alternative "Dutch" Auctions," *Management Science*, 50, 8, August 2004, 1044-1063.
116. Asker, John, Brit Grosskopf, C. Nicholas McKinney, Muriel Niederle, Alvin E. Roth and Georg Weizsäcker, "Teaching auction strategy using experiments administered via the Internet," *Journal of Economic Education*, 35, 4, Fall 2004, 330-342.
117. Abdulkadiroğlu, Atila, Parag A. Pathak, and Alvin E. Roth, "The New York City High School Match," *American Economic Review*, Papers and Proceedings, 95,2, May, 2005, 364-367.

118. Abdulkadiroğlu, Atila, Parag A. Pathak, Alvin E. Roth, and Tayfun Sönmez, "The Boston Public School Match," *American Economic Review*, Papers and Proceedings, 95,2, May, 2005, 368-371.
119. Niederle, Muriel and Alvin E. Roth, "The Gastroenterology Fellowship Market: Should there be a Match?," *American Economic Review*, Papers and Proceedings, 95,2, May, 2005, 372-375.
120. Roth, Alvin E., Tayfun Sönmez, and M. Utku Ünver, "A Kidney Exchange Clearinghouse in New England," *American Economic Review*, Papers and Proceedings, 95,2, May, 2005, 376-380.
- a. Roth, Alvin E., Tayfun Sönmez and M. Utku Ünver, "Kidney Paired Donation With Compatible Pairs," *American Journal of Transplantation*, (letter), 2007, 7:1.
121. C. Nicholas McKinney, Muriel Niederle, and Alvin E. Roth, "The collapse of a medical labor clearinghouse (and why such failures are rare)," *American Economic Review*, 95, 3, June, 2005, 878-889.
122. Roth, Alvin E., Tayfun Sönmez and M. Utku Ünver, "Pairwise Kidney Exchange," *Journal of Economic Theory*, 125, 2, December 2005, 151-188.
123. Ariely, Dan, Axel Ockenfels, and Alvin E. Roth, "An Experimental Analysis of Ending Rules in Internet Auctions," *Rand Journal of Economics*, 36, 4, Winter 2005, 891-908.
- Reprinted in *New Developments in Experimental Economics*, Enrica Carbone, and Chris Starmer, editors, Edward Elgar, 2007.
124. Niederle, Muriel, Deborah D. Proctor, and Alvin E. Roth, "What will be needed for the new GI fellowship match to succeed?" *Gastroenterology*, January, 2006, 130, 218-224.
125. Haruvy, Ernan, Alvin E. Roth, and M. Utku Ünver, "The Dynamics of Law Clerk Matching: An Experimental and Computational Investigation of Proposals for Reform of the Market," *Journal of Economic Dynamics and Control*, 30, 3, March 2006, Pages 457-486.
126. Saidman, Susan L., Alvin E. Roth, Tayfun Sönmez, M. Utku Ünver, and Francis L. Delmonico, "Increasing the Opportunity of Live Kidney Donation By Matching for Two and Three Way Exchanges," *Transplantation*, 81, 5, March 15, 2006, 773-782.
127. Ockenfels, Axel and Alvin E. Roth, "Late and Multiple Bidding in Second-Price Internet Auctions: Theory and Evidence Concerning Different Rules for Ending an Auction" *Games and Economic Behavior*, 55, 2006, 297-320.
128. Bereby-Meyer, Yoella and Alvin E. Roth, "Learning in Noisy Games: Partial Reinforcement and the Sustainability of Cooperation," *American Economic Review*, 96, 4, September, 2006, 1029-1042.
129. Roth, Alvin E., Tayfun Sönmez, M. Utku Ünver, Francis L. Delmonico, and Susan L. Saidman, "Utilizing List Exchange and Undirected Good Samaritan Donation through "Chain" Paired Kidney Donations," *American Journal of Transplantation*, 6, 11, November 2006, 2694-2705.
130. Erev, Ido, and Alvin E. Roth, "Multi-agent learning and the descriptive value of simple models," *Artificial Intelligence*, 171, 7, May, 2007, 423-428.
131. Roth, Alvin E., Tayfun Sönmez and M. Utku Ünver "Efficient Kidney Exchange: Coincidence of Wants in Markets with Compatibility-Based Preferences," *American Economic Review*, 97, 3, June

2007, 828-851.

132. Erev, Ido, Alvin E. Roth, Robert L. Slonim, and Greg Barron, "Learning and equilibrium as useful approximations: accuracy of prediction on randomly selected constant sum games," *Economic Theory*, special issue: Symposium on Behavioral Game Theory, 33, October 2007, 29-51.
133. Avery, Christopher, Christine Jolls, Richard A. Posner, and Alvin E. Roth, "The New Market for Federal Judicial Law Clerks", *University of Chicago Law Review*, 74, Spring 2007, 447-486.
134. Roth, Alvin E. "Repugnance as a constraint on markets," NBER Working Paper 12702, November, 2006, *Journal of Economic Perspectives*, 21(3), Summer, 2007, 37-58.
135. Roth, Alvin E. "The Art of Designing Markets," *Harvard Business Review*, October, 2007, 118-126. <https://hbr.org/2007/10/the-art-of-designing-markets>
136. Fréchette, Guillaume, Alvin E. Roth, and M. Utku Ünver, "Unraveling Yields Inefficient Matchings: Evidence from Post-Season College Football Bowls," *Rand Journal of Economics*, 38, 4, Winter 2007, 967-982.
137. Roth, Alvin E. "What have we learned from market design?" Hahn Lecture, *Economic Journal*, 118 (March), 2008, 285–310.

Reprinted in *Innovations*, 3,1 (Winter), 2008, 119-147.

Reprinted in *Innovation Policy and the Economy*, Adam B. Jaffe, Josh Lerner, Scott Stern, editors, volume 9, National Bureau of Economic Research, University of Chicago Press, 2009, 79-112.

Translated with an afterword in *El Trimestre Económico*, abr-jun2011, Vol. 78 Issue 2, p259-314 "¿QUÉ HEMOS APRENDIDO DEL DISEÑO DE MERCADOS?"

Reprinted with a postscript in *The Handbook of Market Design*, Nir Vulkan, Alvin E. Roth and Zvika Neeman editors, Oxford University Press, 2013, Chapter 1, 7-50.

138. Roth, Alvin E. "Deferred Acceptance Algorithms: History, Theory, Practice, and Open Questions," *International Journal of Game Theory*, Special Issue in Honor of David Gale on his 85<sup>th</sup> birthday, 36, March, 2008, 537-569. <http://web.stanford.edu/~alroth/papers/GaleandShapley.revised.IJGT.pdf>

Reprinted (in abbreviated form) as "Deferred Acceptance Algorithms: History, Theory, Practice," in John Siegfried, editor, *Better Living Through Economics*, Harvard University Press, 2010, 206-222.

139. Harner, Christopher D., Anil S. Ranawat, Muriel Niederle, Alvin E. Roth, Peter J. Stern, Shepard R. Hurwitz, William Levine, G. Paul DeRosa, Serena S. Hu, "Current State of Fellowship Hiring: Is a universal match necessary? Is it possible?," *Journal of Bone and Joint Surgery*, 90, 2008, 1375-1384.
140. Niederle, Muriel, Deborah D. Proctor, and Alvin E. Roth, "The Gastroenterology Fellowship Match – The First Two Years," *Gastroenterology*, 135, 2 (August), 344-346, 2008.
141. Grosskopf, Brit and Alvin E. Roth, "If you are offered the Right of First Refusal, Should you accept? An Investigation of Contract Design," *Games and Economic Behavior*, Special Issue in Honor of Martin Shubik, 65 (January), 2009, 176–204.

142. Rees, Michael A., Jonathan E. Kopke, Ronald P. Pelletier, Dorry L. Segev, Matthew E. Rutter, Alfredo J. Fabrega, Jeffrey Rogers, Oleh G. Pankewycz, Janet Hiller, Alvin E. Roth, Tuomas Sandholm, Utku Ünver, and Robert A. Montgomery, "A Non-Simultaneous Extended Altruistic Donor Chain," *New England Journal of Medicine*, 360;11, March 12, 2009, 1096-1101.
143. Niederle, Muriel and Alvin E. Roth, "Market Culture: How Rules Governing Exploding Offers Affect Market Performance," *American Economic Journal: Microeconomics*, 1, 2, August 2009, 199-219.
144. Niederle, Muriel and Alvin E. Roth, "The Effects of a Central Clearinghouse on Job placement, Wages, and Hiring Practices", in *Labor Market Intermediation*, David Autor, Editor, The University of Chicago Press, 2009, 273-306.
145. Abdulkadiroğlu, Atila, Parag A. Pathak, and Alvin E. Roth, "Strategy-proofness versus Efficiency in Matching with Indifferences: Redesigning the NYC High School Match," *American Economic Review*, 99, 5 (December), 2009, 1954-1978.
146. Erev, Ido, Eyal Ert, Alvin E. Roth, Ernan Haruvy, Stefan Herzog, Robin Hau, Ralph Hertwig, Terrence Steward, Robert West, and Christian Lebiere, "A choice prediction competition, for choices from experience and from description," *Journal of Behavioral Decision Making*, special issue on Decisions from Experience, 23, 1 (January), 2010, 15 - 47.
147. Leider, Stephen and Alvin E. Roth, "Kidneys for sale: Who disapproves, and why?" *American Journal of Transplantation*, 10 (May), 2010, 1221-1227.  
<http://web.stanford.edu/~alroth/papers/KidneySales%20repugnance%20AJT2010.pdf>
148. Erev, Ido, Eyal Ert, and Alvin E. Roth, "A choice prediction competition for market entry games: An introduction," *Games*, Special Issue on Predicting Behavior in Games, 2010, 1 (2), 117-136.  
<http://www.mdpi.com/2073-4336/1/2/117/>. Correction: <http://www.mdpi.com/2073-4336/1/3/221/>
149. Hanto, Ruthanne L, Alvin E. Roth, M. Utku Ünver, and Francis L Delmonico, "New Sources in Living Kidney Donation," Chapter 8 in D. McKay, editor, *Kidney Transplantation: A Guide to the Care of Transplant Recipients*. Springer, 2010, 103-17.
150. Coles, Peter, John H. Cawley, Phillip B. Levine, Muriel Niederle, Alvin E. Roth, and John J. Siegfried, "The Job Market for New Economists: A Market Design Perspective," *Journal of Economic Perspectives*, 24,4, Fall 2010, 187-206.
151. Ashlagi, Itai, Duncan S. Gilchrist, Alvin E. Roth, and Michael A. Rees, "Nonsimultaneous Chains and Dominos in Kidney Paired Donation – Revisited," *American Journal of Transplantation*, 11, 5, May 2011, 984-994  
<http://www.stanford.edu/~alroth/papers/Nonsimultaneous%20Chains%20AJT%202011.pdf>
152. Ashlagi, Itai, Duncan S. Gilchrist, Alvin E. Roth, and Michael A. Rees, "NEAD Chains in Transplantation," *American Journal of Transplantation*, December 2011; 11: 2780–2781.  
<http://web.stanford.edu/~iashlagi/papers/NeadChains2.pdf>
153. Wallis, C. Bradley, Kannan P. Samy, Alvin E. Roth, and Michael A. Rees, "Kidney Paired Donation," *Nephrology Dialysis Transplantation*, July 2011, 26 (7): 2091-2099 (published online March 31, 2011; doi: 10.1093/ndt/gfr155, <http://ndt.oxfordjournals.org/cgi/reprint/gfr155?ijkey=6BzHRbCSzUPNoLL&keytype=ref>

154. Ert, Eyal, Ido Erev, and Alvin E. Roth, "A Choice Prediction Competition for Social Preferences in Simple Extensive Form Games: An Introduction," *Games*, Special Issue on Predicting Behavior in Games, 2011, 2, 257-276. <http://www.mdpi.com/2073-4336/2/3/257/>
155. Roth, Alvin E., "Marketplace institutions related to the timing of transactions: reply to Priest (2010)," *Journal of Labor Economics*, 30, 2 (April ), 2012, 479-494. <http://www.jstor.org/stable/10.1086/663621>
156. Ashlagi, Itai and Alvin E. Roth, "New challenges in multi-hospital kidney exchange," *American Economic Review Papers and Proceedings*, 102,3, May 2012, 354-59.
157. Rees, Michael A., Mark A. Schnitzler, Edward Zavala, James A. Cutler, Alvin E. Roth, F. Dennis Irwin, Stephen W. Crawford, and Alan B. Leichtman, "Call to Develop a Standard Acquisition Charge Model for Kidney Paired Donation," *American Journal of Transplantation*, 2012, 12, 6 (June), 1392-1397. (published online 9 April 2012 <http://onlinelibrary.wiley.com/doi/10.1111/j.1600-6143.2012.04034.x/abstract> ).
158. Kessler, Judd B. and Alvin E. Roth, "Organ Allocation Policy and the Decision to Donate," *American Economic Review*, Vol. 102 No. 5 (August 2012), 2018-47.
159. Roth, Alvin E., "What Have We Learned From Market Design?" Chapter 1 in Nir Vulkan, Zvika Neeman, and Alvin E. Roth (editors), *The Handbook of Market Design*. Oxford: Oxford University Press (2013) 7-50.
160. Ockenfels, Axel and Alvin E. Roth, 'Ending Rules in Internet Auctions: Design and Behavior', Chapter 13 in Nir Vulkan, Zvika Neeman, and Alvin E. Roth (editors), *The Handbook of Market Design*. Oxford: Oxford University Press (2013) 325-344.
161. Niederle, Muriel, Alvin E. Roth and M. Utku Unver, "Unraveling Results from Comparable Demand and Supply: An Experimental Investigation," *Games*, 2013, 4, no. 2 (June): 243-282 (Special Issue on Games and Matching Markets), <http://www.mdpi.com/2073-4336/4/2/243>.
162. Kojima, Fuhito, Parag A. Pathak, and Alvin E. Roth, "Matching with Couples: Stability and Incentives in Large Markets," *Quarterly Journal of Economics*, (2013) 128 (4): 1585-1632.
163. Roth, Alvin E. "In 100 Years," in *In 100 Years: Leading Economists Predict the Future*, edited by Ignacio Palacios-Huerta, MIT Press, 2013, Chapter 7, 109-119.
164. Kessler, Judd B. and Alvin E. Roth, "Getting More Organs for Transplantation," *American Economic Review, Papers and Proceedings*, May 2014, 104 (5): 425-30.
165. Kessler, Judd B. and Alvin E. Roth, "Loopholes Undermine Donation: An Experiment Motivated by an Organ Donation Priority Loophole in Israel," *Journal of Public Economics*, 114, June 2014, 19-28.
166. Erev, Ido and Alvin E. Roth, "Maximization, Learning and Economic Behavior," *Proceedings of the National Academy of Sciences (PNAS)*, July 22, 2014, vol. 111, suppl. 3, 10818–10825 [www.pnas.org/cgi/doi/10.1073/pnas.1402846111](http://www.pnas.org/cgi/doi/10.1073/pnas.1402846111) .
167. Ashlagi, Itai, and Alvin E. Roth, "Free Riding and Participation in Large Scale, Multi-hospital Kidney Exchange," *Theoretical Economics* 9 (2014), 817–863. <http://econtheory.org/ojs/index.php/te/article/viewFile/1357/11619/357>

168. Niederle, Muriel and Alvin E. Roth, "Philanthropically Funded Heroism Awards for Kidney Donors?", *Law & Contemporary Problems*, 77:3, 2014, 131-144.  
<http://scholarship.law.duke.edu/cgi/viewcontent.cgi?article=4696&context=lcp>
169. van Damme, Eric, Ken Binmore, Alvin E. Roth, Larry Samuelson, Eyal Q1 Winter, Gary E. Bolton, Axel Ockenfels, Martin Dufwenberg, Georg Kirchsteiger, Uri Gneezy, Martin G. Kocher, Matthias Sutter, Alan Sanfey, Hartmut Kliemt, Reinhard Selten, Rosemarie Nagel, Ofer H. Azar, "How Werner Güth's ultimatum game shaped our understanding of social behavior," *Journal of Economic Behavior & Organization*, Special Issue on Institutions, Games, and Experiments, in Honor of Werner Güth; Edited by: Martin Dufwenberg and Axel Ockenfels, 108, December 2014, 292-318.
170. Greiner, Ben, Mary Caravella, and Alvin E. Roth, "Is Avatar-To-Avatar Communication As Effective As Face-To-Face Communication? – An Ultimatum Game Experiment in First and Second Life," *Journal of Economic Behavior and Organization*, Special Issue on Institutions, Games, and Experiments, in Honor of Werner Güth; Edited by: Martin Dufwenberg and Axel Ockenfels, 108, December 2014, 374-382.
171. Anderson, Ross, Itai Ashlagi, David Gamarnik and Alvin E. Roth, "Finding long chains in kidney exchange using the traveling salesmen problem," *Proceedings of the National Academy of Sciences of the United States of America (PNAS)*, January 20, 2015 | vol. 112 | no. 3 | 663–668, <http://www.pnas.org/content/112/3/663.full.pdf+html>
172. Anderson, Ross, Itai Ashlagi, David Gamarnik, Michael Rees, Alvin E. Roth, Tayfun Sönmez and M. Utku Ünver, "Kidney Exchange and the Alliance for Paired Donation: Operations Research Changes the Way Kidneys are Transplanted," Edelman Award Competition, *Interfaces*, 2015, 45(1), pp. 26–42. <http://pubsonline.informs.org/doi/pdf/10.1287/inte.2014.0766>
173. Roth, Alvin E., "Transplantation: One Economist's Perspective," *Transplantation*, February 2015, Volume 99 - Issue 2 - p 261–264. <http://marketdesigner.blogspot.com/2015/02/an-economists-perspective-on.html>
174. Roth, Alvin E. and Ran I. Shorrer, "The redesign of the medical intern assignment mechanism in Israel," Commentary, *Israel Journal of Health Policy Research*, 2015, 4, 11, xxx, <http://www.ijhpr.org/content/pdf/s13584-015-0014-y.pdf>
175. Roth, Alvin E. "Is Experimental Economics Living Up to Its Promise?, in Fréchette, Guillaume R. and Andrew Schotter (editors) *Handbook of Experimental Economic Methodology*, Chapter 1, pp. 13-40, Oxford University Press, 2015.  
<http://www.oxfordscholarship.com/view/10.1093/acprof:oso/9780195328325.001.0001/acprof-9780195328325-chapter-2>
176. Ambuehl, Sandro, Muriel Niederle, and Alvin E. Roth, "[More Money, More Problems? Can High Pay be Coercive and Repugnant?](#)," *American Economic Review Papers and Proceedings*, May 2015, 105(5): 357-60.
177. Fumo, D.E., V. Kapoor, L.J. Reece, S.M. Stepkowski, J.E. Kopke, S.E. Rees, C. Smith, A.E. Roth, A.B. Leichtman, M.A. Rees, "Improving matching strategies in kidney paired donation: the 7-year evolution of a web based virtual matching system," *American Journal of Transplantation*, October 2015, 15(10), 2646-2654 <http://onlinelibrary.wiley.com/enhanced/doi/10.1111/ajt.13337/> (designated one of 10 "best of AJT 2015")

178. Roth, Alvin E. "Why do stable clearinghouses work so well? -- Small sets of stable matchings in typical environments, and the limits-on-manipulation theorem of Demange, Gale and Sotomayor," *Journal of Dynamics and Games*, Matching: Theory and Applications, a Special Issue dedicated to Marilda Sotomayor on the occasion of her 70th birthday, Vol. 2, No. 2&3, April & July 2015, pp. 331–340. <http://aimsciences.org/journals/pdfs.jsp?paperID=11994&mode=full>
179. Melcher, Marc L., John P. Roberts, Alan B. Leichtman, Alvin E. Roth, and Michael A. Rees, "Utilization of Deceased Donor Kidneys to Initiate Living Donor Chains," *American Journal of Transplantation*, 16, 5, May 2016, 1367–1370.
- a. Melcher, Marc L., John P. Roberts, Alan B. Leichtman, Alvin E. Roth, and Michael A. Rees, "We need to take the next step," *American Journal of Transplantation*, forthcoming
180. Stoler, Avraham, Judd B. Kessler, Tamar Ashkenazi, Alvin E. Roth, Jacob Lavee, "Incentivizing Authorization for Deceased Organ Donation with Organ Allocation Priority: the First Five Years," *American Journal of Transplantation*, Volume 16, Issue 9, September 2016, 2639–2645. <http://onlinelibrary.wiley.com/doi/10.1111/ajt.13802/full>
181. Stoler, Avraham, Judd B. Kessler, Tamar Ashkenazi, Alvin E. Roth, Jacob Lavee, "Incentivizing Organ Donor Registrations with Organ Allocation Priority," *Health Economics*, April 2016 online <http://onlinelibrary.wiley.com/doi/10.1002/hec.3328/full> ; doi: [10.1002/hec.3328](https://doi.org/10.1002/hec.3328).
182. Roth, Alvin E., "Experiments in Market Design," in Kagel, J.H. and A.E. Roth (editors) *Handbook of Experimental Economics, Volume 2*, Princeton University Press, 2016, 290-346.
183. Roth, A.E., Ido Erev, and Robert L. Slonim, "Minimax across a population of games," *Journal of the Economic Science Association*, 2,2, November, 2016, 144-156. <http://link.springer.com/article/10.1007%2Fs40881-016-0029-3>
184. Michael A. Rees, Ty B. Dunn, Christian S. Kuhr, Christopher L. Marsh, Jeffrey Rogers, Susan E. Rees, Alejandra Cicero, Laurie J. Reece, Alvin E. Roth, Obi Ekwenna, David E. Fumo, Kimberly D. Krawiec, Jonathan E. Kopke, Samay Jain, Miguel Tan and Siegfredo R. Paloyo, "Kidney Exchange to Overcome Financial Barriers to Kidney Transplantation," *American Journal of Transplantation*, Volume 17, Issue 3 March 2017, Pages 782–790. <http://onlinelibrary.wiley.com/doi/10.1111/ajt.14106/full>

### III. Other Publications

Roth, A.E. *The Art and Science of Negotiation* by Howard Raiffa (Book review). *Journal of Economic Literature*, Vol. 21, 1983, pp1537-1538.

Roth, A.E. "Editor's Introduction and Overview", *Game-Theoretic Models of Bargaining*, Cambridge University Press, 1985, pp1-7.

Hogarth, R., K. MacCrimmon, M. Machina, J. Roberts, A.E. Roth, P. Slovic "Final Report to the Committee on Basic Research in the Behavioral and Social Sciences of the National Research Council, Ten-Year Outlook on Research Opportunities in the Behavioral and Social Sciences, Working Group on Information and Decision-Making," September, 1985. Published in R.D. Luce, N.J. Smelser, and D.R. Gerstein (editors), *Leading Edges in Social and Behavioral Sciences*, New York, Russell Sage Foundation, 1989.

Roth, A.E. "Editor's Introduction and Overview," *Laboratory Experimentation in Economics: Six Points of View*, Cambridge University Press, 1987, pp1-13.

Murnighan, J.K., Roth, A.E., and Schoumaker, F. "Risk Aversion and Bargaining: Some Preliminary Experimental Results," *European Economic Review*, 31, 1987, pp265-271.

Roth, A.E. *The Economics of Bargaining*, edited by K. Binmore and P. Dasgupta, (Book review). *Economica*, 1988, pp277-278.

Roth, A.E. "Introduction to the Shapley Value," *The Shapley Value: Essays in Honor of Lloyd S. Shapley*, A.E. Roth, ed., Cambridge University Press, 1988, pp1-27.

Roth, A.E. *Stability and Perfection of Nash Equilibria*, by Eric van Damme, (Book review). *Journal of Economics/Zeitschrift fur Nationalokonomie*, 51, 1990, pp308-309.

Roth, A.E. *Bounded Rational Behavior in Experimental Games and Markets*, edited by R. Tietz, W. Albers, and R. Selten, (book review), *Journal of Institutional and Theoretical Economics/ Zeitschrift fur die gesamte Staatswissenschaft*, December, 1990, 758-760.

Roth, A.E. *Local Justice: How Institutions Allocate Scarce Goods and Necessary Burdens*, by Jon Elster (book review), *Journal of Economic Literature*, 31, 1993, 1445-6.

Roth, A.E. "First Jobs and College Bowl Bids: Patterns and Pathologies in the Timing of Market Transactions," [Abstract of 1992 Marschak Colloquium], *Mathematical Social Sciences*, 1993, 305-306.

Roth, A.E. "Bargaining," (pp46-7) "Experimental Economics," (pp279-80) and "Matching" (encyclopedia articles), *Social Science Encyclopedia*, Edition 2, Adam Kuper and Jessica Kuper (editors), London, Routledge, 1996.

Roth, A.E. "Comments on 'Mismatch'," MSJAMA Online, April 7, 1999, [http://www.ama-assn.org/sci-pubs/msjama/articles/vol\\_281/no\\_13/roth.htm](http://www.ama-assn.org/sci-pubs/msjama/articles/vol_281/no_13/roth.htm), now archived at [http://web.archive.org/web/20000817212112/www.ama-assn.org/sci-pubs/msjama/articles/vol\\_281/no\\_13/roth.htm](http://web.archive.org/web/20000817212112/www.ama-assn.org/sci-pubs/msjama/articles/vol_281/no_13/roth.htm)

Roth, A.E. and Ido Erev, "Modeling repeated play of the prisoners' dilemma with reinforcement learning over an enriched strategy set," in *Bounded Rationality: The Adaptive Toolbox*, Gerd Gigerenzer and Reinhard Selten, editors, MIT Press, 2001.

Roth, Alvin E. "Form and Function in Experimental Design," *Behavioral and Brain Sciences*, 24, 3, June, 2001, 427-8.

Interview on Experimental Economics (conducted by Fredrik Andersson and Hakan Holm, in *Experimental Economics: Financial Markets, Auctions, and Decision Making. Interviews and Contributions from the 20th Arne Ryde Symposium*, F. Andersson and H. Holm, editors, Kluwer, 2002, 49-65.

Roth, Alvin E. "Matching and Allocation in Medicine and Health Care," *Building a Better Delivery System: A New Engineering/Health Care Partnership*, Reid, Compton, Grossman, Fanjiang, eds., National Academy of Engineering and Institute of Medicine, National Academies Press, 2005, 237-239.

Murnighan, J.Keith, and Alvin E. Roth, "Some of the Ancient History of Experimental Economics and Social Psychology: Reminiscences and Analysis of a Fruitful Collaboration," *Social Psychology and Economics*, D. De Cremer, M. Zeelenberg, and J.K. Murnighan, editors, Lawrence Erlbaum Associates, Inc.: Mahwah, NJ. 2006, 321-333.

Niederle, Muriel, Alvin E. Roth and Tayfun Sönmez. "matching and market design." *The New Palgrave Dictionary of Economics*. Second Edition. Eds. Steven N. Durlauf and Lawrence E. Blume. Palgrave Macmillan, 2008.

Alvin E. Roth, John Cawley, Philip Levine, Muriel Niederle, John Siegfried with assistance from Peter Coles, Ben Greiner, Jenna Kutz, "Signaling for Interviews in the Economics Job Market," <http://www.aeaweb.org/joe/signal/signaling.pdf>

Rees, Michael A., Kopke, J. E., Hil, G., Reitsma, W, Pankewycz, O. G., Miller, A. L., Hawxby, A. M, Montgomery, R. A., Abraham, D., Sandholm, T., Roth, A. E., Somnez, T., Unver, M. U., "The never-ending altruistic donor," *AMERICAN JOURNAL OF TRANSPLANTATION*, Volume: 8 288-288 Supplement: Suppl. 2 : MAY 2008

Rees, Michael, Kopke, Jonathan, Pelletier, Ronald, Segev, Dorry, Fabrega, Alfredo, Rogers, Jeffrey, Pankewycz, Oleh, Hiller, Janet, Roth, Alvin, Sandholm, Tuomas, Unver, M. Utku, Nibhunupudy, Bobby, Bowers, Victor, Van Buren, Charles, Montgomery, Robert "Four Never-Ending Altruistic Donor Chains," *AMERICAN JOURNAL OF TRANSPLANTATION* Volume: 9 Pages: 389-389 Supplement: Suppl. 2 2009

Rees, Michael A., Jonathan E. Kopke, Ronald P. Pelletier, Dorry L. Segev, Alfredo J. Fabrega, Jeffrey Rogers, Oleh G. Pankewycz, Janet Hiller, Alvin E. Roth, Tuomas Sandholm, M. Utku Ünver, Bobby Nibhanubpudy, Victor Bowers, Charles VanBuren, and Robert A. Montgomery, "Six Nonsimultaneous Extended Altruistic Donor (NEAD) Chains," American Transplant Congress, May 30-June 3, 2009, Boston.  
<http://kuznets.fas.harvard.edu/~aroth/papers/Rees.ATC.2009.NEADChainPoster.pdf>

Rees, Michael A., Jonathan E. Kopke, Ronald P. Pelletier, Dorry L. Segev, Alfredo J. Fabrega, Jeffrey Rogers, Oleh G. Pankewycz, Alvin E. Roth, Tim E. Taber, M. Utku Ünver, Bobby Nibhunubpudy, Alan B. Leichtman, Charles T. VanBuren, Carlton J. Young, and Robert A. Montgomery, "Seven Non-Simultaneous Extended Altruistic Donor (NEAD) Chains," *American Journal of Transplantation*, Volume: 10 Suppl. 4, Abstract #805, p. 275, APR 2010 (May 1-5, 2010, San Diego. See <http://kuznets.fas.harvard.edu/~aroth/papers/ATC.2010.NEADChainPoster.Reesfinal.pdf> )

Hanto, Ruthanne L., Susan L. Saidman, Alvin E. Roth, and Francis L. Delmonico, "The Evolution of a Successful Kidney Paired Donation Program," XXIII International Congress of The Transplantation Society, August 16, 2010, Vancouver.

Rees, Michael A., Jonathan E. Kopke, Ronald P. Pelletier, Dorry L. Segev, Alfredo J. Fabrega, Jeffrey Rogers, Oleh G. Pankewycz, Alvin E. Roth, Tim E. Taber, M. Utku Ünver, Bobby Nibhunubpudy, Alan B. Leichtman, Charles T. VanBuren, Carlton J. Young, Brian J. Gallay, and Robert A. Montgomery, "Nine Non-Simultaneous Extended Altruistic Donor (NEAD) Chains" XXIII International Congress of The Transplantation Society, August 15-19, 2010, Vancouver.

Ockenfels, Axel, Gary E. Bolton, Werner Güth, and Alvin E. Roth, "Social Behavior in Economic Games," *The Selten School of Behavioral Economics: A Collection of Essays in Honor of Reinhard*

*Selten*,” Axel Ockenfels and Abdolkarim Sadrieh, Editors, Springer-Verlag, Berlin, 2010, 183-200.

Report of the Ad Hoc Committee on the Job Market, *American Economic Review*: Papers and Proceedings 2011, 101:3, 744–746,

<http://www.aeaweb.org/articles.php?doi=10.1257/aer.101.3.744>

Roth, Alvin E. “Students Need a Way to Signal a Preferred College,” *New York Times*, Room for Debate, How to Improve the College Admissions Process, March 31, 2015.

<http://www.nytimes.com/roomfordebate/2015/03/31/how-to-improve-the-college-admissions-process/students-need-a-way-to-signal-a-preferred-college>

Roth, Alvin E. “Migrants aren’t widgets,” *Politico*.EU, Sept 3, 2015.

<http://www.politico.eu/article/migrants-arent-widgets-europe-eu-migrant-refugee-crisis/>

Roth, Alvin E., “John Nash, Experimental Economist,” *Games and Economic Behavior*, John Nash Memorial Special Issue, forthcoming

Roth, Alvin E. “Organspenden; Deutschland muss sein Transplantationsgesetz ändern,” op-ed, *Der Tagesspiegel*, March 16, 2016. <http://www.tagesspiegel.de/politik/organspenden-deutschland-muss-sein-transplantationsgesetz-aendern/13329956.html>

Roth, Alvin E., “Lloyd Shapley: A founding giant of game theory,” *VoxEU*, April 6, 2016,

<http://www.voxeu.org/article/ideas-lloyd-shapley> (and <http://www.lindau-nobel.org/lloyd-shapley-a-founding-giant-of-game-theory/> )

Roth, Alvin E., “Lloyd Shapley (1923–2016),” *Nature* 532, 178 (14 April 2016)

Roth, Alvin E. “The Ongoing Design of Kidney Exchange: Recent and Prospective Developments,” Poster presented at the 2017 AEA/ASSA meetings in Chicago,

[https://www.aeaweb.org/conference/2017/preliminary/2124?search\\_terms=Roth](https://www.aeaweb.org/conference/2017/preliminary/2124?search_terms=Roth)

#### IV. Working Papers

Abdulkadirođlu, Atila, Parag A. Pathak, Alvin E. Roth, and Tayfun Sönmez, "Changing the Boston School Choice Mechanism," working paper, January 2006.

Rees, Michael A., Alvin E. Roth, Tuomas Sandholm, M Utku Unver, Ruthanne Hanto, Jonathan E. Kopke, and Francis L. Delmonico, "Designing a National Kidney Exchange Program," April, 2008.

Ashlagi, Itai, David Gamarnik, Michael A. Rees, and Alvin E. Roth, "The Need for (long) Chains in Kidney Exchange," October, 2011, revised May 2012.

Kessler, Judd B. and Alvin E. Roth, "Don't Take 'No' For An Answer: An experiment with actual organ donor registration," February 2013

Ashlagi, Itai, Wenhao Liu, Gareth Hil, Alvin E. Roth, Michael Reese, "Contemporary Kidney Exchange Candidate-Donor Pools and New Simulation Models," January, 2014.

Avery, Christopher, Soohyung Lee, and Alvin E. Roth, "College Admissions as Non-Price Competition: The Case of South Korea," NBER Working Paper No. 20774, December 2014

Michael A. Rees, John P. Roberts, Krista L. Lentine, Alvin E. Roth, Itai Ashlagi, Afshin Nikzad, Alan B. Leichtman, Huiling Xiao, Sassan Rafizadeh, Eitan Neidich, Alan B. Leichtman and Marc L. Melcher, "Nonsimultaneous Extended Altruistic Donor Chains Should Be Started With Deceased Donor Kidneys," March 2015

Nikzad, Afshin, Mohammad Akbarpour, Michael Rees, and Alvin E. Roth, "Financing Transplant Costs of the Poor: A Dynamic Model of Global Kidney Exchange," January [April] 2016

Wu, Qingyun and Alvin E. Roth, "The Lattice of Envy-free Matchings," April 2016

Roth, Alvin E. "Crossing borders in search of health, welfare, and safety: Global kidney exchange, surrogacy, and refugee certification and resettlement," August 2016.

Abdulkadirođlu, Atila, Yeon-Koo Che, Parag A. Pathak, Alvin E. Roth, and Olivier Tercieux, "Minimizing Justified Envy in School Choice: The Design of New Orleans' OneApp," March 2017

#### V. Publicly available consulting reports

Roth, A.E. "Evaluation of Changes to be Considered in the NRMP Algorithm," Consultant's report, 1995, mimeo and <http://www.economics.harvard.edu/~aroth/nrmp.html>

Roth, A.E. "Interim Report #1: Evaluation of the current NRMP algorithm, and preliminary design of an applicant-proposing algorithm," March 1996, mimeo and <http://www.economics.harvard.edu/~aroth/interim1.html>

Roth, A.E. "Report on the design and testing of an applicant proposing matching algorithm, and comparison with the existing NRMP algorithm, mimeo, November 1996, <http://www.economics.harvard.edu/~aroth/phase1.html>

## VI. Graduate Students, Postdocs, and Research Fellows

Graduate advisees: Michael Malouf, Gary Bolton (now at Penn State), Vesna Prasnikar (now at CMU), Sue Mongell (deceased), Xiaolin Xing (now at National U. of Singapore), Nick Feltovich (now at Aberdeen) [Nick's dissertation won the Society for Computational Economics 1997 Graduate Student Prize in Computational Economics.] My last two students at the University of Pittsburgh got their Ph.D.s in 2000: Utku Unver (who won the 1999 Graduate Student Prize in Computational Economics, and who is now at Boston College), and Jim Engle-Warnick (who is now at McGill). Muriel Niederle, and Liran Einav both finished their Ph.D. in Economics at Harvard in 2002, and took jobs at Stanford. Georg Weizsacker finished in 2004 and is now at the London School of Economics. Michael Ostrovsky finished his Ph.D. in 2005 and went to Stanford GSB. Ben Edelman (J.D./Ph.D.) finished in 2007 and came to HBS, Parag Pathak finished in 2007 and became both a junior fellow at Harvard and an assistant professor of economics at MIT, and Jen Stack finished in 2007 and went into finance. Fuhito Kojima finished in 2008 and accepted a position in Economics at Stanford, but after spending his first year at the Cowles Foundation at Yale. Robin Lee finished in 2008 and took a position at NYU's Stern School, but spent his first year at Yahoo! Research. Siva Anantham finished in 2008 and went to the U.S. Treasury. Eric Budish, Steve Leider, and Mihai Manea finished in 2009, and went, respectively, to Chicago Booth, U. of Michigan Business School, and MIT Economics, Itay Fainmesser and Luke Coffman finished in 2010 and went to Brown and OSU, Judd Kessler and Scott Kominers finished in 2011 and went to Wharton and the Milton Friedman Institute at the U. of Chicago, respectively. In the 2011-12 job market, Katie Baldiga (now Katie Coffman) went to OSU, Yuichiro Kamada to a postdoc at Yale to be followed by Berkeley Haas, Eduardo Azevedo went to Wharton, and Jacob Leshno took a postdoc for a year at Microsoft Research in Cambridge, and then Columbia GSB. In the 2012-13 job market, Scott Kominers returned to Harvard as a junior fellow, Stephanie Hurder went to the Economics Department at Michigan, Nikhil Agarwal to the Economics department at MIT, and Johanna Mollerstrom to the Economics Department at George Mason. Alex Peysakhovich took a postdoc at Yale, and subsequently joined Facebook.

At Stanford: (graduate committees, member or chair): Pete Troyan, and Dan Fragiadakis in 2013, Mohammad Akbarpour (co-chair) and Christine Exley in 2015, Sandro Ambuehl and Shengwu Li in 2016...

Postdocs and Research Fellows: Elaine Bennett (deceased at age 44, 5/26/95; formerly at Virginia Tech), Maria Herrero (Michigan State University), Marilda Sotomayor (now at Sao Paulo), Jordi Masso (now at Universitat Autònoma de Barcelona), John Vande Vate (now at Georgia Tech), Allan Beggs (now at Oxford), Eyal Winter (now at Hebrew University of Jerusalem), Ulrich Kamecke (now at Humboldt-Universität in Berlin), Ido Erev (now at the Technion), Rami Zwick (now at UC Riverside), Rosemarie Nagel (now at Pompeu Fabra, Barcelona), Rachel Croson (now at U.T. Dallas), Bob Slonim (postdoc '96-98) now at U. Sydney, Miguel Costa-Gomes (postdoc '98-00), now at Aberdeen, Axel Ockenfels (postdoc '99-00) now at U. of Cologne, Yoella Bereby Meyer (postdoc '99-01) from Ben Gurion University. In the academic year 2000-01 my postdoctoral fellows were Lise Vesterlund (00-01), from Iowa State (now at the University of Pittsburgh), Jan Potters from Tilburg and Brit Grosskopf (00-03) from Pompeu Fabra, now at Texas A&M University. Guillaume Fréchette (02-04) from Ohio State (now at NYU), and Utku Unver (02-03) from Koc University. Bradley Ruffle (03-04) of Ben Gurion and Greg Barron from the Technion (now at HBS). Tayfun Sonmez was a research fellow for 2004-05, coming from Koc University and going to Boston College. Carmit Segal from Stanford, and Onur Kestlin from Rochester were postdocs for 2005-06, with Onur departing for Carnegie Mellon University. In 2006-2007 Carmit Segal was a postdoc together with Aytek Erdil, who finished his Ph.D. in mathematics at the University of Chicago. Carmit departed for Pompeu Fabra, and Aytek for Oxford (Nuffield, now at Cambridge). Ido Erev visited in 2007-08 to spend his sabbatical at HBS as a Bower Fellow. Ben Greiner departed for UNSW in Sydney after two years as the CLER fellow. For 2008-09, Eyal Ert was the CLER fellow, Itai Ashlagi began two years as a postdoc, and Bettina Klaus visited for a year as a research fellow (coming from Maastricht and departing to Lausanne). In 2009-10 Flip Klijn visited as a research fellow. Itai Ashlagi departed in 2010 for MIT Sloan, Eyal Ert departed

for the Hebrew University, For 2010-11 Clayton Featherstone began a two year postdoc and John Hatfield came for a year on sabbatical, both coming from Stanford: John returned to Stanford, and Clayton departed in 2012 for Wharton.