

VITA

ALVIN E. ROTH

January 2012

DATE OF BIRTH: 18 December 1951

MARITAL STATUS: Married, two children

CITIZENSHIP: USA

ADDRESS: Department of Economics Harvard Business School
308 Littauer 441 Baker Library
Harvard University Boston, MA 02163
Cambridge, MA 02138 (617) 495-5447
(617) 496-0009 aroth@hbs.edu
al_roth@harvard.edu
<http://www.economics.harvard.edu/~aroth/alroth.html>

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

PRINCIPAL EMPLOYMENT:

8/98-present 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, Research Associate.

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 (1991).

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

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

GENERAL AWARDS:

1984 "Ten Outstanding Young Americans" award, United States Jaycees.

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.

SPECIAL LECTURES

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

"Bargaining Behavior: Theory and Experiment" (short course) 1st 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) 10th 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," 10th Anniversary Lectures on Behavioral Economics, Center for Rationality, Hebrew University, Jerusalem, June 14, 2002.

"The Timing of Transactions," (short course) 13th 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, 30th, 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," 4th 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.

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-)
 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)
 Program Committee: Econometric Society Winter Meetings, 2008.
 President Elect, Economic Science Association July 2009-11, followed by President 2011-13

OTHER

Board of Directors, The Institute for Innovation in Public School Choice (2006-)
 Advisory Board (NEPKE Advisory Committee), New England Program for Kidney Exchange
 (2006- 2011)
 Advisory Board, New Orleans Exchange (2008-)
 At Large Representative, OPTN/UNOS Kidney Paired Donation Work Group Committee
 (2009-2011)
 Member, OPTN/UNOS Kidney Paired Donation Pilot Program Strategic Planning Team
 (2011-)
 Director, Market Design Group, Inc. (June 2009-)

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Publications

January 2012

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)
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>)

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 okonomische Wissenschaft in der Zukunft--Ansichten fuhrender Okonomen* (Economic Science in the Future--Perspectives by Leading Economists), H. Hanusch, editor, 1992, 334-345.)
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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.

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 University 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 Kestin from Rochester were postdocs for 2005-06, with Onur departing for Carnegie Mellon University. In 2006-2007 Carmit Segal was a postdoc together with Aytekin Erdil, who finished his Ph.D. in mathematics at the University of Chicago. Carmit departed for Pompeu Fabra, and Aytekin 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, and for 2010-11 Clayton Featherstone will begin a two year postdoc and John Hatfield will come for a year on sabbatical, both coming from Stanford.