VITA

ALVIN E. ROTH October 2022

DATE OF BIRTH: 18 December 1951

MARITAL STATUS: Married, two children CITIZENSHIP: USA

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Stanford, CA 94305-6072 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

6/20- National Resident Matching Program (NRMP), Board of Directors

7/20- National Academy of Sciences, Class Membership Committee, Class V:

Behavioral and Social Sciences

Selected consulting/advisory engagements: BandwidthX, BehaveHealth, Didi (Economics Advisory Board, until 2021), Google (Faculty Advisor, since June 2020), InitialView, Luohan Academy, Tremor, Neuralight

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, cosponsored 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, <u>2012</u>

Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel, 2012, (Nobel 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 (<u>video</u>, see at 1:22:30)

2013 <u>Golden Goose Award</u>, jointly with <u>David Gale and Lloyd Shapley</u>, Washington DC, September 2013. (<u>short video</u>)

Doctor Honoris Causa, University of Amsterdam, January 8, <u>2014</u>. (<u>video</u>, 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, <u>2017</u>.

Fellow, Game Theory Society, elected June 2017.

Excellence In Innovation Award, U.S. Chamber of Commerce, (Introduced by Dr. France Córdova, Director, National Science Foundation), Washington, D.C., September 12, 2018

Doutoramento Honoris Causa, Universidade de Lisboa, October 24, 2018. (<u>video, photos</u>)

Distinguished Fellow, American Economic Association, 2018.

Samuel Johnson Medal, Columbia University School of Engineering, May 30, 2019.

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 7th 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) 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.

"Random Graph Models for Kidney Exchange," Sir John Hicks Lecture, 12th 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

"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

"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) 25th 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 70th 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," 5th Lindau Meeting on Economic Sciences, August 20th, 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

"Making Markets Work," Congressional Briefing, COSSA, Rayburn House Office Building, Washington D.C., April 18, 2017.

"Kidney Exchange: Recent History and Future Opportunities," National Kidney Foundation 2017 Spring Clinical Meeting, Orlando, Florida, April 19, 2017.

"Frontiers of Kidney Exchange," Match-UP 2017, Microsoft Research New England, April 20, 2017.

"Markets and Marketplaces: The New and Not So New Economics of Market Design," Milliman Lecture in Economics, University of Washington, May 4, 2017

"Market design, kidney exchange, and health inequality," Trento Festival of Economics (on Health Inequality), June 1, 2017.

"Marketplaces and Market Design," Morishima Lecture, London School of Economics, June 15 2017. (video and slides)

"Marketplace Design," IFORS 2017, Quebec City, July 17, 2017.

"Repugnant transactions and Forbidden Markets," Slater Family Lecture, SPUDM 2017, Technion, Haifa, August 23, 2017

"The Ongoing Design of Kidney Exchange," Keynote Lecture, Organ Donation Congress of the International Society for Organ Donation and Procurement (ISDOP), Geneva, Sept 7 2017 "The Ongoing Design of Kidney Exchange, and the Opportunity for Global Kidney Exchange," Meeting of the EU Competent Authorities on Organ Donation and Transplantation, (Co-Chaired by the European Commission), Rome, January 15, 2018

"Repugnant transactions and forbidden markets: Different tissues, same issues," Plasma Protein Forum, June 12, 2018, Washington D.C.

"Repugnant transactions and forbidden markets," Chen Yusun Memorial Lecture, Tsinghua University, Beijing, July 9, 2018.

"Market design and computerized marketplaces," Keynote, 24th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, London, August 22, 2018.

"Recent Developments in Kidney Exchange: Market Design in a Large World," NBER Market Design conference, Stanford, October 19, 2018

"Game theory in a large world: Market design, and a kidney exchange example," Keynote, 10th Lisbon meetings on game theory and applications," October 26, 2018.

"Market Design in Large Worlds: The Example of Kidney Exchange," The 11th Annual Kenneth J. Arrow Lecture, Columbia University, November 8, 2018.

"Markets, forbidden markets, and kidney exchange," DAVID KASERMAN MEMORIAL LECTURE, Auburn University, March 27, 2019

"Repugnant Markets and Prohibited Transactions," PPE Society, New Orleans, March 28-30, 2019

"History and organization of kidney exchange," Indian Society of Transplantation (ISOT), 11-12 May 2019, Ahmedabad

"Taboo transactions and frontiers in ethical kidney exchange," Indian Society of Transplantation (ISOT), 11-12 May 2019, Ahmedabad

"Matching markets and market design," University of Campania, Luigi Vanvitelli, June 17, 2019.

"How global connectivity, data, and computer-assisted markets can help cure kidney failure," Luohan Academy, Hangzhou, June 24, 2019.

"Matching and Market Design in Global Medicine," Beijing Summit on Health Data Science, July 13, 2019.

"Market Design and Game Theory in a Large World," 30th Stony Brook Conference on Game Theory, July 16, 2019.

"Kidney Exchange: An Opportunity for Cooperation in North America," 2019 Canadian Transplant Summit, Banff, Alberta Canada, October, 2019.

"Controversial Markets," Berlin School of Economics, Humboldt University, Nov 7, 2019

- "Kidney Exchange in the U.S., Europe, and Around the World, but not in Germany?" Einstein Institute, Berlin, Nov 7, 2019.
- "Kidney Exchange in Germany?" Nobel Prize Dialogue Berlin 2019, November 8.
- "Smart Markets, Complex Societies," Disruptive Technology Review (DTR), Microsoft, Redmond, December 6, 2019.
- "The match as a part of the larger system of transition to residency," Transition into Residency: Conversations Across the Medical Education Continuum, NRMP, Oct. 16, 2020.
- "Kidneys and controversies: Kidney exchange within and across borders," Rishwain Lecture, Surgical Grand Rounds, UCSF, October 21, 2020.
- "Global Kidney Chains," NBER Market Design Conference, October 2020.
- "School Choice," WU (Vienna University of Economics and Business), January 13, 2021
- "Controversial Markets," Zurich Center for Market Design, April 13, 2021
- Kidney Exchange: "an Operations Perspective," INFORMS Health Applications Society, June 25, 2021
- "Market Design," Escola Nacional de Administração Pública (ENAP), Sept. 13, 2021
- "A Better Society through Matching Theory," Nikkei Business LIVE The Future of Management 2030: Reimagining Capitalism, Reconstructing with Innovation, October 6, 2021
- "Kidney Exchange, Around the World and in India," 31st Annual Conference of The Indian Society of Organ Transplantation 7 October 2021 (Chief Guest)
- "Market Design and Maintenance," 2021 LAMES-LACEA, Keynote, Bogota, 22 October, 2021
- "Transplant Sufficiency in an Unequal World," Plenary on access and transparency, TTS 2022 Buenos Aires, Sept 12, 2022
- "Increasing the availability of transplants in India," 32nd Annual Conference of The Indian Society of Organ Transplantation, Nagpur, October 14, 2022.
- "Market Design: The Dialog Between Simple Abstract Models and Practical Implementation," Philip McCord Morse Lecture, 2022 INFORMS Annual Meeting, Indianapolis, 19 October, 2022.

PROFESSIONAL ORGANIZATIONS:

American Academy of Arts and Sciences American Association for the Advancement of Science American Economic Association (President 2017) 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 of Controversial Ideas (2021-)

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. Past President,

2018. Executive committee: 2016-Stanford non-medical IRB: 2019-

OTHER

The Institute for Innovation in Public School Choice, Chairman of the Board of Directors, (2006-2014), Chairman of the Scientific Advisory Board (2015-2020)

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 2009-2016)

Advisory Board, National Living Donor Assistance Center (NLDAC), 2016-

ALVIN E. ROTH

Publications August 2022

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)
- 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.
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MA Rees, AE Roth, IR Marino, K Krawiec, A Agnihotri, S Rees, K Sweeney, S Paloyo, T Dunn, M Zimmerman, J Punch, R Sung, J Leventhal, A Alobaidli, F Aziz, E Mor, T Ashkenazi, I Ashlagi, M Ellis, A Rege, V Whittaker, R Forbes, C Marsh, C Kuhr, J Rogers, M Tan, L Basagoitia, R Correa-Rotter, S Anwar, F Citterio, J Romagnoli, and O Ekwenna, "The First 52 Global Kidney Exchange Transplants: overcoming multiple barriers to transplantation," TTS 2022, Buenos Aires, September 14, 2022, https://cm.tts2022.org/virtual/lecture/304

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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) INick'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 Ünver (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 postoc 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...Bobak Pakzad-Hurson in 2017, Afshin Nikzad in 2018

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 Autonoma 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 Ünver (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 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. At Stanford ...Colin Sullivan 2020, Ravi Jagadeesan 2020-22, ...