CURRICULUM VITAE

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Ehud Kalai, Ph.D.

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Born, December 7, 1942, Tel Aviv, Israel

Education

Cornell University, Ithaca, New York: Ph.D. in Mathematics (1972); MS in Statistics (1971). University of California, Berkeley: A.B. in Mathematics (1967).

Permanent Academic Positions

09/75-present	Kellogg School of Management, Northwestern University: Visiting Assistant Professor (9/75-9/76), Associate Professor (9/76-9/78), Professor (9/78-9/82), The Charles E. Morrison Professor of Decision Sciences (9/82-9/2001); The James J. O'Connor Distinguished Professor of Decision and Game Sciences
	(9/2001 - present).
03/90-present	Professor of Mathematics (courtesy), Department of Mathematics, CAS,
	Northwestern University.
10/72-9/75	Assistant Professor, Department of Statistics, Tel Aviv University.

Editorial Positions

Editor and founder, *Games and Economic Behavior*, Academic Press, 1988-. Member of the Editorial Board of the *International Journal of Game Theory*, Physica Verlag, 1984-. Member of the Editorial Board of *Mathematical Social Sciences*, North-Holland, 1980-1993. Associate Editor, *The Journal of Economic Theory*, Academic Press, Inc., 1980-1988.

Other Positions

President of the Game Theory Society, 2003-2006
Co Founder and Executive Vice President of the Game Theory Society, 1998-2003
Director of the Kellogg Center for Strategic Decision-Making, 1995-.
Founding organizer of the Nancy L. Schwartz Memorial Lecture Series, 1981-.
Chairman of the Department of Managerial Economics and Decision Sciences, Kellogg Graduate School of Management, Northwestern University, 1983-1985.
A member of the Board of Directors of *First Savings of America, a Federal Savings and Loan Association*, Orland Park, Illinois, 1986-1989.

Honors, Memberships, Organization, Invited and Keynote Lectures

2005 The First international Workshop on Internet and Network Economics, Hong Kong.

2005	Chair of the First GATE Workshop, Northwestern University.
2005	The Sixth ACM Conference on Electronic Commerce, Vancouver.
2005	Martha and Jonathan Cohen Distinguished Visitor, University of Pennsylvania.
2005	The PIER Lecture, University of Pennsylvania.
2004	The Presidential Address of the Second World Congress of the Game Theory Society
	Marseilles.
2002	The Tenth International Symposium on Dynamic Games and Applications, Saint
	Petersburg.
2002	The First Brazilian Workshop of the Game Theory Society, San Paulo.
2001	The 2001 Pazner Lecture, Tel Aviv University.
2000	The 2000 Pareto Lecture, the Association of Southern European Economic Theorists,
	Lisbon.
2000	Distinguished Visitor, The University of California San Diego
2000	Program Chair of the First World Congress of the Game Theory Society, Bilbao.
1999	The Game Theory Society, Charter Member
1998	Chair of the International Workshop on Learning in Game Theory, Stony Brook.
1997	The 17th Annual Arne Ryde Symposium, Lund.
1996	The Sixth Conference on Theoretical Aspects of Rationality and Knowledge, Renesse,
	Zeeland.
1996	The Seventh Annual ACM-SIAM Symposium on Discrete Algorithms, Atlanta.
1996	Sherman Fairchild Distinguished Scholar, California Institute of Technology.
1995	The 11th World Congress of the International Economic Association, Tunis.
1994	Jacob Marschak Lecture, the University of California, Los Angeles.
1995	Chair of the International Conference on Game Theory, Stony Brook.
1993	The Alfred Nobel Symposium on Game Theory, Björkborn, Sweden.
1992	Joint U.SItaly Second Workshop on Knowledge, Belief, and Strategic Interaction,
1000	Castiglioncello.
1992	Outstanding Professor Award of the Executive Masters Program, Class No. 25.
1991	Oskar Morgenstern Research Professor, New York University.
1990 1990	The International Conference on Organizations and Games, Marseille-Luminy. The Second International Conference of Economics and Artificial Intelligence, Paris.
1990 1989	U
1989	The Third Symposium on Complexity of Approximately Solved Problems, New York. Elected Fellow of the Econometric Society.
1988	The Murphy Lecture on Political Economy, Tulane.
1987 1987	Outstanding Professor Award of the Executive Masters Program, Class No. 16.
1986 1981	Chairman of the International Workshop on Bounded Rationality, Northwestern. Beta Gamma Sigma
1981 1978	Public Choice Society
1978	•
1975	Econometrics Society American Mathematical Society
17/1	American Mathematical Society
Grants	
2006-2009	National Science Foundation Grant No. SES-0527656 in Economics/Computer Science, "DRU Learning and Social Efficiency in Large Games" (with Adam Kalai and Andrew Postlewaite).

Andrew Postlewaite). 1999-2002 National Science Foundation Grant No. SES-9904931 in Economics, "Learning and Information in Large Games."

1996-1999	National Science Foundation Grant No. SBR-9515421 in Economics, "Learning and
	Forecasting: Theory and Applications" (with Ehud Lehrer).
1993-1996	National Science Foundation Grant No. SBR-9223156 in Economics, "A Subjective
	Approach to Dynamic Interaction" (with Ehud Lehrer).
1991-1993	National Science Foundation Grant No. SES-9022305 in Economics, "Rational Learning
	in Long Term Interactions" (with Ehud Lehrer).
1990-1992	National Science Foundation Grant No. SES-9011790 in Economics, "The Role of
	Strategic Complexity in Economics."
1988-1990	National Science Foundation Grant No. SES-8720342 in Economics, "Strategic
	Complexity in Extensive Games, "with Dov Samet and William Stanford.
1984-1987	National Science Foundation Grant No. SES-8409798 in Economics, "Incentives to
	Cooperate and Monotonic Solutions to Group Decisions" (with Dov Samet).
1982-1984	National Science Foundation Grant No. SES-8208880 in Economics, "Equilibria of
	Games with Communications Commitments."
1981-1982	Kellogg Research Chair in Decision Theory, Northwestern University.
1979-1981	National Science Foundation Grant No. SOC-7907542 in Economics, "Alternative
	Models of Incentives in Economics, "with John Roberts and Mark A.
	Satterthwaite.
1980-1981	IBM Research Chair in Managerial Economics, Department of Managerial Economics
	and Decision Sciences, Kellogg School, Northwestern University.

Consulting Activities

McDonalds Corporation Finance Officers, Arlington Heights, 2004, on Behavioral Finance and Decision Making.

Janssen Pharmaceutica, Boca Raton, 2002, Robust Strategies via Decision and Game Analysis.

- Baxter Healthcare Corporation, Deerfield, Illinois, 2001, Strategic Learning in a Market with New Products.
- Baxter Healthcare Corporation, Deerfield, Illinois, 1999-2000. Strategic Analysis of Competition in China.

Associated Research, Lake Forest, 1999. Expert Opinion on Proper Assessment of California Taxes.

Sonnenschein Nath and Rosenthal, Chicago, 1999. Expert opinion in an Alabama Class Action Suit against Allstate.

CCC information services, Inc., Chicago, Illinois: *Expert* opinion onCCC's vehicle valuation system (1999); Constructing *a Game of Efficient Early Settlements* (1996-7); The design of *National Database and Valuation-Systems* for: used automobiles (1989), for unsalvageable automobiles (1990), and for automobile parts (1992- 3)

Phelps Dunbar, L.L/P. Counselors at Law, New Orleans (1998), *Estimating Damages in a Class Action Suit Involving Flammable Chemicals*.

Kaiser Permanente, Pasadena, California (1995), Rate Setting in a Competitive Environment.

- Arthur Anderson & Co., Chicago, Illinois (1990), Strategic Analysis of Profit Sharing System.
- First Chicago, The First National Bank of Chicago, Chicago, Illinois (1987), Mortgage Backed Securities Information Service: Strategic Analysis.
- Beckman, Kelly and Smith, Attorneys-at-Law, Hammond, Indiana (1985-6): Expert testimony in *Reginald Kinkade Variety Amusement et al. v. Lake County.*

United States Testing, Wheeling, Illinois (1984): Expert opinion in Seven-Up v. Cola-Cola.

The Steel Tank Institute, Northbrook, Illinois (1982): Actuarial Analysis of *Steel Tank Institute 20-year Warranty of STI-P3*.

Frieman, Atkins and Colman Law Firm, National Plaza, Chicago, Illinois (1982): Expert testimony in

Taysin Yassin v. The City of Chicago.

Israeli Army, Division of Communications (1974-1975): mathematical and statistical consulting. Fireman's Fund of America, San Francisco (1967): actuarial trainee.

LIST OF PUBLICATIONS

Journal Publications

- Kalai, E. and M. Smorodinsky," Other Solutions to Nash's Bargaining Problems," *Econometrica*, 43, No. 3. 1975, 513-518.
- Kalai, E. and M. Smorodinsky," On a Game-Theoretic Notion of Complexity for Compact Convex Sets," *Proceedings of the American Mathematical Society*, 49, No. 2, 1975, 416-420.
- Kalai, E., "Excess Functions for Cooperative Games Without Sidepayments," SIAM Journal of Applied Mathematics, 29, 1975, 60-71.
- Kalai, E., "On Game-Type Subsets," International Journal of Game Theory, 4, 1975, 141-150.
- Kalai, E., E. Pazner and D. Schmeidler, "Collective Choice Correspondences as Admissible Outcomes of Social Bargaining Processes," *Econometrica*, 44, 1976, 233-240.
- Kalai, E. and D. Schmeidler, "Aggregation Procedure for Cardinal Preferences: A Formulation and Proof of Samuelson's Impossibility Conjecture," *Econometrica*, 45, 1977, 1431-1437.
- Kalai, E. and D. Schmeidler, "An Admissible Set Occurring in Various Bargaining Situations," *Journal of Economic Theory*, 14, No. 2, 1977, 402-411.
- Kalai, E., "Proportional Solutions to Bargaining Situations: Interpersonal Utility Comparisons," *Econometrica*, 45, No. 7, 1977, 1623-1630.
- Kalai, E., "Non-Symmetric Nash Solutions for Replications of 2-Person Bargaining," *International Journal of Game Theory*, 6, Issue 3, 1977, 129-133.
- Kalai, E. and E. Muller, "Characterization of Domains Admitting Non-Dictatorial Social Welfare Functions and Non-Manipulable Voting Procedures," *Journal of Economic Theory*, 16, No. 2, 1977, 457-467.
- Anbar, D. and E. Kalai, "A One-Shot Bargaining Problem," *International Journal of Game Theory*, 7, Issue 1, 1978, 13-18.
- Kalai, E. and Robert W. Rosenthal, "Arbitration of Two-Party Disputes under Ignorance," *International Journal of Game Theory*, 7, Issue 2, 1978, 65-72.
- Kalai, E., A. Postlewaite and J. Roberts, "Barriers to Trade and Disadvantageous Middlemen: Nonmonotonicity of the Core," *Journal of Economic Theory*, 19, No. 1, 1979, 200-209.
- Kalai, E., A. Postlewaite and J. Roberts, "A Group Incentive Compatible Mechanism Yielding Core Allocations," *Journal of Economic Theory*, 20, No. 1, 1979, 13-22.
- Kalai, E., E. Muller and Mark A. Satterthwaite, "Social Welfare Functions when Preferences are Convex and Continuous: Impossibility Results," *Public Choice*, No. 34, 1979, 87-97.
- Kalai, E. and Z. Ritz, "Characterization of the Private Alternatives Domains Admitting Arrow Social Welfare Functions," *Journal of Economic Theory*, 22, No. 1, 1980, 23-36.
- Kalai, E. and N. Megiddo, "Path Independent Choices," *Econometrica*, 48, No. 3, 1980, 781-784.
- Kalai, E., "Preplay Negotiations and the Prisoners' Dilemma," *Mathematical Social Sciences*, 1, 1981, 375-379.
- Kalai, E. and E. Zemel, "Totally Balanced Games and Games of Flow," *Mathematics of Operations Research*, 7, No. 3, 1982.
- Kalai, E. and E. Zemel, "Generalized Network Problems Yielding Totally Balanced Games," *Operations Research*, 30, No. 4, 1982.
- Kalai, E. and D. Samet, "Persistent Equilibria in Strategic Games," *International Journal of Game Theory*, 13, No. 3, 1984, 129-144.

- Kalai, E. and D. Samet, "Unanimity Games and Pareto Optimality," *International Journal of Game Theory*, 14, Issue 1, 1985, 41-50.
- Kalai, E. and D. Samet, "Monotonic Solutions to General Cooperative Games," *Econometrica*, 53, No. 2, 1985, 307-327.
- Kalai, E. and W. Stanford, "Conjectural Variations Strategies in Accelerated Cournot Games," International Journal of Industrial Organization, 3, 1985, 133-152.
- Kalai, E. and W. Stanford, "Finite Rationality and Interpersonal Complexity in Repeated Games," *Econometrica*, 56, No. 2, 1988, 387-410.
- Kalai, E., "Strategic Behavior and Competition: An overview," *Journal of Economic Theory*, 39, No. 1, 1986, 1-13.
- Kalai, E. and D. Samet, "On Weighted Shapley Values," Int. J. of Game Theory, 16, 1987, 205-222.
- Kalai, E., D. Samet and W. Stanford, "A Note on Reactive Equilibria in the Discounted Prisoners' Dilemma," *International Journal of Game Theory*, Issue 3, 1988, 177-186.
- Kalai, E., "Games and Economic Behavior," Editorial, *Games and Economic Behavior*, Vol. 1, Issue 1, 1989, 1-5.
- Gilboa, I., E. Kalai and E. Zemel, "On the Order of Eliminating Dominated Strategies," *Operations Research Letters*, 9, 1990, 85-89.
- Fershtman, C., K. Judd and E. Kalai, "Observable Contracts: Strategic Delegation and Cooperation," *International Economic Review*, 32 (3), 1991, 551-559.
- Kalai, E. and A. Neme, "The Strength of a Little Perfection," *International Journal of Game Theory*, 20 (4), 1992, 335-355.
- Kalai, E., M. I. Kamien and M. Rubinovitch, "Optimal Service Speeds in a Competitive Environment," *Management Science*, 38, No. 8, 1992, 1154-1163.
- Fershtman, C. and E. Kalai, "Complexity Considerations in Market Behavior," *The RAND Journal of Economics*, 24, No. 2, 1993, 224-235.
- Baron, D. and E. Kalai, "The Simplest Equilibrium of a Majority-Rule Division Game," *Journal of Economic Theory*, 61, No. 2, 1993, 290-301.
- Gilboa, I., E. Kalai and E. Zemel, "The Complexity of Eliminating Dominated Strategies," *Mathematics* of Operations Research, 18, No. 3, 1993, 553-565.
- Kalai, E. and E. Lehrer, "Rational Learning Leads to Nash Equilibrium," *Econometrica*, 61, No. 5, 1993, 1019-1045.
- Kalai, E. and E. Lehrer, "Subjective Equilibrium in Repeated Games," *Econometrica*, 61, No. 5, 1993, 1231-1240.
- Kalai, E. and E. Lehrer, "Weak and Strong Merging of Opinions," *Journal of Mathematical Economics*, 23, 1994, 73-86.
- Kalai, E. and E. Lehrer, "Subjective Games and Equilibria," *Games and Economic Behavior*, 8, No. 1, 1995, 123-163.
- Kalai, E., "Games, Computers, and O.R.," *Proceedings of the Seventh Annual ACM-SIAM Symposium on Discrete Algorithms*, 1996, 468-473.
- Jackson, M. and E. Kalai, "Social Learning in Recurring Games," *Games and Economic Behavior*, 21, No. 1/2, 1997, 102-134.
- Fershtman, C. and E. Kalai, "Unobserved Delegation," *International Economic Review*, 38, No. 4, 1997, 763-774.
- Kalai, E., E. Lehrer and R. Smorodinsky, "Calibrated Forecasting and Merging," Games and Economic Behavior, 29, No. 1/2, 1999, 151-159.
- Jackson, M., E. Kalai and R. Smorodinsky, "Bayesian Representations of Stochastic Processes Under Learning: deFinetti Revisited," *Econometrica*, 67, No. 4, 1999, 875-894
- Kalai, E. and J. O. Ledyard, "Repeated Implementation," *Journal of Economic Theory*, 83, No. 2, 1998, 308-317.

- Jackson, M. O. and E. Kalai, "Reputation versus Social Learning," *Journal of Economic Theory*, 88, No. 1, 1999, 40-59.
- Kalai, A. and E. Kalai, "Strategic Polarization," *Journal of Mathematical Psychology*, 45, No. 4, August 2001, 656-663.
- Kalai, E. and E. Solan, "Randomization and Simplification," *Journal of Economic Theory*, 111, No. 2, August 2003, pp 251-264.
- Kalai, E., "Large Robust Games," Econometrica, 72, No. 6, November 2004, pp 1631-1666.
- Kalai, E., "Partially-Specified Large Games," *Lecture Notes in Computer Science*, Vol. 3828, 2005, 3 13

Book Contributions

- Kalai, E., A. Postlewaite and J. Roberts, "Arbitration of Exchange Situations with Public Goods," in *Applied Game Theory*, Brams, Schotter and Schwodiauer (eds.), Physica Verlag, 1979.
- Kalai, E., "Solutions to the Bargaining Problem," in Social Goals and Social Organization, Essays in Memory of Elisha A. Pazner, Hurwicz, Schmeidler and Sonnenschein (eds.), Cambridge University Press, 1985, 77-105.
- Kalai, E. and D. Samet, "Weighted Shapley Values," in *The Shapley Value, Essays in Honor of Lloyd S. Shapley*, A. Roth (ed.), Cambridge University Press, 1988, 83-100.
- Kalai, E., "Bounded Rationality and Strategic Complexity in Repeated Games," in *Game Theory and Applications*, Ichiishi, Neyman and Tauman (eds.), Academic Press, 1990, 131-157.
- Kalai, E. and D. Samet, "Types Decomposition and Perfect Implementations," in *Rational Interaction, Essays in Honor of John C. Harsanyi*, Reinhard Selten (ed.), Springer-Verlag, 1992, 97-119.
- Kalai, E., "A Rational Game Theory Framework for the Analysis of Legal and Criminal Decision Making," in *Inside the Juror: The Psychology of Juror Decision Making*, R. Hastie (ed.), Cambridge University Press, 1993, 235-241.
- Kalai, E. and Mark A. Satterthwaite, "The Kinked Demand Curve, Facilitating Practices, and Oligopolistic Coordination," in *Imperfection and Behavior in Economic Organizations*, R. P. Gilles and P. H. M. Ruys (eds.), Kluwer Academic Publishers, 1994, pp. 15-38.
- Jackson, M. and E. Kalai, "Recurring Bullies, Trembling and Learning," in Understanding Strategic Interaction: Essays in Honor of Reinhard Selten, W. Albers, W. Guth, P. Hammerstein, B. Moldovanu, and E. Van Damme (eds), Springer, 1997, pp 171-184.
- Jacobs, D.P., E. Kalai and M. I. Kamien(eds), *Frontiers of Research in Economic Theory*: The Nancy L. Schwartz Memorial Lectures, 1983-1997, Cambridge Univ. Press 1998.
- Jackson, M. and E. Kalai, "Social Learning in Recurring Games," Chapter 6 in *Social Organization and Mechanism Design*, Claude d'Aspremont (ed), De Boeck & Larcier s.a., 1999, pp 107-136.
- Kalai, E. and E. Lehrer, "Rational Learning in Repeated Games" in *Recent Development in Game Theory*, E. Maskin (ed), 1999, Edward Elgar Publishing.

Recent Participation in Scientific Meetings and Invited Lectures

04/06	A Symposium honoring Nobel Laureate Robert Aumann, Stony Brook, presented "A Large
	Market Game."
04/06	Cornell University, presented "Good and Bad News about Nash Equilibria with Many
	Participants.
04/06	University of Chicago, presented "Good and Bad News about Nash Equilibria with Many
	Participants.
03/06	Vanderbilt University, presented "Embedding a Game in a Bigger World."

03/06	Texas A&M University, presented "Embedding a Game in a Bigger World."
03/06	Rice University, presented "Embedding a Game in a Bigger World."
03/06	University of Texas at Austin, presented "Embedding a Game in a Bigger World."
12/05	Tel Aviv University, presented "Partially Specified Games."
12/05	A Key Note Address to The international Workshop on Network and Internet Economics,
	Hong Kong, "Partially Specified Large Games."
12/05	Invited participant in the Nobel Prize in Economics Ceremony, Stockholm.
10/05	University of Pittburgh, presented "Structurally-Robust Large Games."
06/05	European Summer School on Game Theory, Lisbon, Lectures on strategic learning and on large games.
06/05	The Technion, Haifa, presented "Structural Robustness in Large Games."
06/05	The Sixth ACM Conference on Electronic Commerce, Vancouver, invited lecture,
	"Structural Robustness in Large Games."
04/05	Barcelona JOCS Seminar, "Structural Robustness in Large Games."
04/05	Santiago de Compostela University, presented "Structural Robustness in Large Games."
03/05	The PIER Lecture at the University of Pennsylvania, presented "The Good and Bad News
05/05	about Large Equilibria."
12/04	The Institute for Advanced Studies, The Hebrew University in Jerusalem, presented
12/01	"Program Equilibria and Metagames."
12/04	The Hebrew University in Jerusalem, Dept of Econ., presented "Extensive Robustness
12/01	Revisited."
10/04	Yale University, Cowles Uncertainty Workshop in Honor of David Schmeidler, presented
10/01	"Extensive Robustness Revisited."
07/04	The International Workshop on Game Theory, Stony Brook, presented "Extensive
01101	Robustness Revisited."
07/04	The Presidential Address of the Second World Congress of the Game Theory Society,
	Marseilles, "What would von Neumann and Morgenstern Say?"
03/04	University of Carlos III Madrid, Department of Economics, presented "Extensive
	Robustness in Large Games."
03/04	University of Seville, Department of Economics, presented "Extensive Robustness in Large
	Games."
03/04	University of Alicante, Department of Economics, presented "Extensive Robustness in
	Large Games."
03/04	University of the Basque Country, Department of Economics, presented "Extensive
	Robustness in Large Games."
12/03	Tel-Aviv University, School of Mathematics, presented "Large Robust Games."
07/03	The International Conference of Game Theory, Stony Brook, presented "Large Robust
	Games."
06/03	University of Haifa, Department of Economics, presented "Large Robust Games."
05/03	University of Tilburgh, Department of Economics, presented "Large Robust Games."
05/03	London School of Economics, Department of Economics, presented "Large Robust Games."
05/03	University of Essex, Department of Economics, presented "Large Robust Games."
05/03	University of Warwick, Department of Economics, presented "Large Robust Games."
05/03	University of Bonn, Department of Economics, presented "Large Robust Games."
04/03	MIT Computer Science, presented "Robust Equilibria in Games with Many Agents."
04/03	Harvard / MIT Economic Theory Workshop, presented "Extensively Robust Equilibria in
01,00	Large Games."
04/03	New York University, presented "Extensively Robust Equilibria in Large Games."
03/03	Yale University, presented "Extensively Robust Equilibria in Large Games."

- 02/03 Conference on Game Theory Laguna Beach, present "Large Robust Games."
- 12/02 Tel Aviv University, presented "Large Robust Games."
- 12/02 Technion, Israel Institute of Technology, presented "Large Robust Games."
- 07/02 IMPA conference on Mathematical Economics, Rio de Janeiro, presented "Large Robust Games."
- 07/02 Latin American Meeting of the Econometric Society, San Paulo, presented "Large Robust Games."
- 07/02 The First Brazilian Workshop of the Game Theory Society, San Paulo, presented "Large Robust Games."
- 07/02 The Tenth International Symposium on Dynamic Games and Applications, Saint Petersburg, presented "Private Information in Large Games."
- 07/02 Hebrew University, Jerusalem, presented "Private Information in Large Games."
- 05/02 The University of Pennsylvania, presented "Private Information in Large Games."
- 05/02 Princeton University, presented "Private Information in Large Games."
- 05/02 The Midwestern Meeting on Mathematical Economics, Evanston, presented "Private Information in Large Games."