#### CURRICULUM VITAE

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EDUCATION AND H0NORARY DEGREESHarvard UniversityA.B. 1959, M.B.A. 1961, D.B.A.1963Norwegian School of Economicshonorary Doctor of Economics1986University of Chicagohonorary Doctor of Laws1995London School of Economicshonorary Doctor of Science (Econ.)2018		
ACADEMIC POSITIONSStanford University, Graduate School of BusinessAssistant/Associate Professor 1964-1971; Professor1971-1976Atholl McBean Professor of Economics1976-2000Adams Distinguished Professor of Management2000-2004Adams Distinguished Professor of Management, Emeritus2004-		
<ul> <li>ACADEMIC AFFILIATIONS</li> <li>Scholarly Societies:</li> <li>National Academy of Sciences: elected Member 1994-</li> <li>American Academy of Arts and Sciences: elected Member 1981-2004</li> <li>American Economic Association: named Distinguished Fellow 2006</li> <li>Econometric Society: elected Fellow 1976; elected to Council 1989-94; plenary speaker 1985, 1989, 1997; Fisher-Schultz Lecturer 1986; Vice-President and President 1997-1999; Executive Committee 1997-2000.</li> <li>Game Theory Society: Fellow, Council 2001–2005; Morgenstern Lecturer 2004.</li> <li>Society for Advancement of Economic Theory: named Fellow 2011</li> <li>Fellowships: CORE, University of Louvain, Belgium, Visiting Professor 1967. Ford Foundation Faculty Research Fellow 1968. Center for Advanced Study in the Behavioral Sciences 1977-8. Guggenheim Fellowship 1982-3.</li> <li>Research Programs: Stanford Center on Conflict and Negotiation 1987-2001; Director 1990. Harvard Law School, Program on Negotiation, Affiliated Faculty 1993-2001. Stanford Institute for Theoretical Economics, Director 1993-5.</li> <li>Associate Editor: Econometrica 1979-85. Mathematics of Operations Research 1988-90. Journal of Risk and Uncertainty 1987-91. Journal of Regulatory Economics 1988-94. Review of Economic Design 1998-2002. Games and Economic Behavior 1988. Advisory Board: Journal of Economic Dynamics and Control 1995—2006. Economic Theory 2009—.</li> <li>Public Lectures: Gjesdal Lecture, Bergen 2016. Laffont Lecture, Toulouse 2010. Norwegian School of Business and Economics, Borch Memorial Lecture 2004. Boston University, Rosenthal Memorial Lecture 1993. University of Oslo, Leif Johansen Award Program 1997. Tel Aviv University, Elisha Pazner Memorial Lecture 1994. Hebrew University of Jerusalem, Oskar Morgenstern Lecture 1994. Helsinki School of Economics, Union Bank Lecture 1991.MIT,Inter-Session Lecture 1984.</li> </ul>		

Prizes: Melamed Prize, U. Chicago 1995. <u>Laffont Prize</u>, U. Toulouse 2010. <u>Frontiers of Knowledge in Economics, BBVA Foundation</u>, Madrid 2016. <u>CME-MSRI Prize in Innovative Quantitative Applications</u>, Chicago 2016. <u>National Academy of Sciences 2018 John J. Carty Award for the Advancement</u> <u>of Sciences</u> (award shared with David Kreps and Paul Milgrom).

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# **Publications**

## Book

Nonlinear Pricing. New York: Oxford University Press, 1993. ISBN 0-19-506885-8. Paperback edition 1997.

Reviewed by Richard Schmalensee, Journal of Political Economy, December 1994, 102(6): 1288-1291 (<u>http://www.jstor.org/stable/2138788</u>); and by John C. Panzar, Journal of Economic Literature, September 1995, 33(3): 1339-1341. Selected by the editors of the Journal of Business as the 1995 winner of the Leo Melamed Prize, awarded biannually by the Graduate School of Business of the University of Chicago for "outstanding scholarship by a business professor."

## Articles and Chapters Organized by Topic and Date

Economic Theory <u>Game Theory</u> : <u>Foundations</u> | <u>Auctions</u> | <u>Bargaining</u> | <u>Computation</u> <u>Market Design & Pricing</u><sup>1</sup> <u>Social Choice Theory</u> <u>Optimization</u>

## **Economic Theory**

"Efficient Intertemporal Allocation of Risk and Return," co-authored with Eiichiro Kazumori. Available as <u>Research Paper 2055</u>, July 2010, and at <u>SSRN</u>: <u>http://ssrn.com/abstract=1639613</u>.

"Exchange," entry for The New Palgrave Dictionary of Economics, 2<sup>nd</sup> Edition, S. Durlauf and L. Blume (eds.), Palgrave Macmillan, New York, 2008. (*Revision of entry in 1<sup>st</sup> edition, see below.*) <u>http://dx.doi.org/10.1057/9780230226203.0515</u> Appears in The New Palgrave Dictionary of Economics Online: <u>http://www.dictionaryofeconomics.com/dictionary</u>.

<sup>&</sup>lt;sup>1</sup> Includes selected reports.

"Strategic Models of Entry Deterrence," in: R. Aumann and S. Hart (eds.), Handbook of Game Theory, Volume 1, Chapter 10, pp. 305-329, 1992. Amsterdam: North-Holland/Elsevier Science Publishers. doi:10.1016/S1574-0005(05)80013-X

"Entry and Exit," in: George R. Feiwel (ed.), The Economics of Imperfect Competition and Employment, 1989, Chapter 8, pp. 260-304. London: Macmillan Press Ltd. [Google Books]

"Deterrence in Oligopolistic Competition," in: Paul C. Stern, Robert Axelrod, Robert Jervis, and Roy Radner (eds.), Perspectives on Deterrence, 1989, Chapter 8, pp. 157-190. New York: Oxford University Press. [Google Books]

"Efficient and Competitive Rationing," Econometrica, Volume 57, No. 1 (January 1989), pp. 1-40. Reprinted in Ray Rees (ed.), The Economics of Public Utilities, Edward Elgar Publishing Ltd., London, 2006. <u>http://www.jstor.org/stable/1912571</u>

"Credentials and Wage Discrimination," Scandinavian Journal of Economics, special issue on Information and Incentives in Organizations, Volume 90, No. 4 (December 1988), pp. 549-562. <u>http://www.jstor.org/stable/3440052</u>

"Exchange," entry in The New Palgrave: A Dictionary of Economics, J. Eatwell, M. Milgate, and P. Newman (eds.), Volume 2, pp. 202-207. London: Macmillan Press Ltd., 1987. Reprinted in The New Palgrave Selected Reprints, Volume 2 (Allocation, Information, and Markets), 1989, pp. 83-93; The New Palgrave Dictionary of Money and Finance, 1992; and The New Palgrave World of Economics, 1992. Revised version appears in The New Palgrave Dictionary of Economics, 2<sup>nd</sup> edition, S. Durlauf and L. Blume (eds.), Macmillan Press Ltd., 2008 (*cited above*). [Google Books]

"Foundations of Dynamic Monopoly and the Coase Conjecture," co-authored with Faruk Gül and Hugo Sonnenschein, Journal of Economic Theory, Vol. 39 (July 1986), pp. 155-190. <u>doi:10.1016/0022-0531(86)90024-4</u> Reprinted in: Peter B. Linhart, Roy Radner, and Mark A. Satterthwaite (eds.), Bargaining with Incomplete Information, Chapter 12, pp. 264-299, Academic Press, San Diego, 1992.

"Efficient Trading," in: Issues in Contemporary Microeconomics and Welfare, George Feiwel (ed.), Chapter 4, pp. 169-208. London: Macmillan Press, Ltd., 1985. (Reviewed by J. Chilton in The Wall Street Review of Books, Fall 1986, pp. 236-238.) [Google Books]

"Multi-Dimensional Signaling," Economics Letters, Vol. 19, No. 1 (October 1985), pp. 17-21. <u>doi:10.1016/0165-1765(85)90094-1</u>

"Auditing: Perspectives from Multi-Person Decision Theory," The Accounting Review, Vol. 58, No. 2 (April 1983), pp. 305-318. <u>http://www.jstor.org/stable/246837</u>

"Competitive Nonlinear Tariffs," co-authored with Shmuel Oren and Stephen Smith, Journal of Economic Theory, Vol. 29, No. 1 (February 1983) pp. 49-71. doi:10.1016/0022-0531(83)90122-9

"Risk Measurement of Public Projects," in: Discounting for Time and Risk in Energy Policy, R. C. Lind (ed.), pp. 205-249. Washington: Resources for the Future and John Hopkins University Press, 1982. [Google Books]

"Computation of Competitive Equilibria by a Sequence of Linear Programs," coauthored with Alan Manne and Hung-Po Chao, Econometrica, Vol. 48, No. 7 (November 1980), pp. 1595-1615, http://www.istor.org/stable/1911924

"Temporal Resolution of Uncertainty in Stapleton and Subrahmanyam's A Multiperiod Equilibrium Asset Pricing Model," co-authored with David Kreps, Econometrica, Vol. 48, No. 6 (September 1980), pp. 1565-1566. http://www.jstor.org/stable/1912826

"Information, Efficiency, and the Core of an Economy," Econometrica, Vol. 46, No. 4 (July 1978), pp. 807-816. Reprinted in: D. Glycopantis and N. Yannelis (eds.), Differential Information Economies, pp. 55-64, Springer-Verlag, New York, ISBN 3-540-21424-0. http://www.jstor.org/stable/1909750

"Competitive Exchange," Econometrica, Vol. 46, No. 3 (May 1978), pp. 577-585. http://www.jstor.org/stable/1914233

"The Bilinear Complementarity Problem and Competitive Equilibria of Piecewise Linear Economic Models," Econometrica, Vol. 46, No. 2 (January 1978), pp. 87-103. http://www.jstor.org/stable/1913647

"Informational Economies of Scale," Bell Journal of Economics, Vol. 6, No. 1 (Spring 1975), pp. 184-195. Reprinted in G. Heal (ed.), The Economies of Increasing Returns, Edward Elgar Publishing, London, 1999. http://www.jstor.org/stable/3003221

"On the Theory of the Firm in an Economy with Incomplete Markets," co-authored with Steinar Ekern, Bell Journal of Economics, Vol. 5, No. 1 (Spring 1974), pp. 171-180. Reprinted as Chapter 10 in: M. McGill and M. Quinzii (eds.), Incomplete Markets, Edward Elgar Publishing, London, 2008, ISBN 978 1 84542 862 4. http://www.jstor.org/stable/3003097

"The Structure of Trade," co-authored with Mordecai Kurz, Economic Inquiry, Vol. 12, No. 4 (December 1974), pp. 493-516. DOI: 10.1111/

"Optimal Dividend Policy," Proc. Fourth International Conference on Operations Research, D. Hertz and J. Melese (eds.), John Wiley & Sons, New York (1968), pp. 128-138.

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"The Theory of Syndicates," Econometrica, Vol. 36, No. 1 (January, 1968), pp. 119-132.

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## Game Theory, Applications, and Computation

Foundations | Auctions | Bargaining | Computation

#### • Game Theory—Foundations

"Stringent Criteria for Rational Strategic Behavior," text of lecture at award of the Jean-Jacques Laffont Prize, November 2010, Toulouse.

"Axiomatic Theory of Equilibrium Selection for Generic Two-Player Games," coauthored with Srihari Govindan, Econometrica, Volume 80, Number 4 (July 2012), 1639–1699. Available as <u>Research Paper 2021</u>, May 2011, and at SSRN: <u>http://ssrn.com/abstract=1418183</u>. <u>DOI: 10.3982/ECTA9579</u>

"On Forward Induction," co-authored with Srihari Govindan, Econometrica, Volume 77, Number 1 (January, 2009), pp. 1–28. Available as <u>Research Report 1986</u> and at SSRN: <u>http://ssrn.com/abstract=1095469</u>. <u>DOI: 10.3982/ECTA6956</u>

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"Axiomatic Theory of Equilibrium Selection in Signaling Games with Generic Payoffs," co-authored with Srihari Govindan. Available as <u>Research Paper 2000</u>, September 2008, and at SSRN: <u>http://ssrn.com/abstract=1287385</u>.

"Nash Equilibrium, refinements of," co-authored with Srihari Govindan, entry for The New Palgrave Dictionary of Economics, 2<sup>nd</sup> Edition, S. Durlauf and L. Blume (eds.), Palgrave Macmillan, New York, 2008. (Available as <u>Research Report 1897</u>, June 2005. <u>http://ssrn.com/abstract=772081</u>) <u>http://www.dictionaryofeconomics.com/dictionary</u> <u>http://dx.doi.org/10.1057/9780230226203.1155</u>

"Metastable Equilibria" co-authored with Srihari Govindan, Mathematics of Operations Research, Volume 33, Number 4 (November 2008), pp. 787-820. Available as <u>Research Paper 1934R</u> and at SSRN: <u>http://ssrn.com/abstract=900612</u> and in *Articles in Advance*, November 3, 2008. <u>http://dx.doi.org/2010.1287/moor.1080.0336</u>

"Stable Outcomes of Generic Extensive-Form Games," co-authored with Srihari Govindan, December 2004; revised May 2007. Available as <u>Research Paper 1933R</u> and at SSRN: <u>http://ssrn.com/abstract=900185</u>.

"Sufficient Conditions for Stable Equilibria," co-authored with Srihari Govindan, Theoretical Economics, Volume 1, Number 2 (June 2006), pp. 167–206. <u>http://econtheory.org/</u> (Available as <u>Research Report 1896</u>, "Justification of Stable Equilibria," Stanford Business School, June 2005. <u>http://ssrn.com/abstract=757885</u>)

"Essential Equilibria", co-authored with Srihari Govindan, Proceedings of the National Academy of Sciences USA, Volume 102, Number 43 (October 25, 2005), pp. 15706-

15711. <u>http://www.pnas.org/cgi/reprint/102/43/15706</u>, <u>http://www.jstor.org/stable/4143499</u> http://dx.doi.org/10.1109/JPROC.2005.857491 (Revision of "Characterization of Hyperstability," March 2004; available as <u>Research Report 1900</u>, June 2005. <u>http://ssrn.com/abstract=772084</u>)

"Introduction to the Special Issue in Memory of Robert W. Rosenthal", co-authored with Andrew Postlewaite, Games and Economic Behavior, Vol. 45, No. 2 (November 2003), pp. 271–277. doi:10.1016/S0899-8256(03)00174-X

"Maximal Stable Sets of Two-Player Games," co-authored with Srihari Govindan, International Journal of Game Theory, Vol. 30, No. 4 (2002), pp. 557-566. doi:10.1007/s001820200098

"Invariance of Stable Equilibria of Signaling Games," co-authored with Srihari Govindan, Festshrift in Honor of Steinar Ekern, 2002. Bergen, Norway: Norwegian School of Economics and Business Administration.

"Structure Theorems for Game Trees," co-authored with Srihari Govindan, Proceedings of the National Academy of Sciences USA, Vol. 99, No. 13 (2002), pp. 9077-9080. http://www.jstor.org/stable/3059143. Online version: http://www.pnas.org/cgi/reprint/99/13/9077.pdf http://dx.doi.org/10.1073/pnas.082249599\_Supplementary computer programs: http://dags.stanford.edu/Games/, http://econweb.tamu.edu/gambit/.

"Direct Proofs of Generic Finiteness of Nash Equilibrium Payoffs," co-authored with Srihari Govindan, Econometrica, Vol. 69, No. 3 (May 2001), pp. 765 – 769. http://www.jstor.org/stable/2692209

"Admissibility and Stability," in: Wulf Albers, Werner Guth, Peter Hammerstein, Benny Moldovanu, and Eric van Damme (eds.), Understanding Strategic Behavior: Essays in Honor of Reinhard Selten, Chapter 8, pp. 85-99, 1997. Berlin: Springer-Verlag.

"Uniqueness of the Index for Nash Equilibria of Two-Player Games," co-authored with Srihari Govindan, Economic Theory, Vol. 10, No. 3 (Fall 1997), pp. 541–549. http://www.jstor.org/stable/25055058

"Equivalence and Invariance of the Index and Degree of Nash Equilibria," co-authored with Srihari Govindan, Games and Economic Behavior, Vol. 21, No. 1 (October-November 1997), pp. 56–61. <u>doi:10.1006/game.1997.0516</u>

"A Sufficient Condition for Invariance of Essential Components," co-authored with Srihari Govindan, Duke Mathematical Journal, Vol. 81, No. 1 (January 1996), pp. 39-46.

"Nonlinear Pricing and Mechanism Design," in Hans Amman, David Kendrick, and John Rust (eds.), Handbook of Computational Economics, Volume 1, Chapter 5, pp. 253-293, 1996. New York: Elsevier Science Publishers. ISBN 10: 0-444-89857-3, ISBN 13: 978-0-444-89857-9

"John Harsanyi and the Economics of Information," Games and Economic Behavior, Vol. 14, No. 2 (June 1996), pp. 296-298. <u>doi:10.1006/game.1996.0054</u>

"Reputations in Games and Markets," in: Game Theoretic Models of Bargaining with Incomplete Information, Alvin Roth (ed.); Chapter 3, pp. 27-62. Cambridge: Cambridge University Press, 1985. (Reviewed by S. Clark in Journal of Economic Surveys, Vol. 1, No. 1, 1987, page 103.) [Google Books]

"Reputation and Imperfect Information," co-authored with David Kreps, Journal of Economic Theory, Vol. 27, No. 2 (August 1982), pp. 253-279. doi:10.1016/0022-0531(82)90030-8 Reprinted in: Oliver Williamson (eds.), *Industrial Organization*, 1990 (paperback edition 1996); London: Edward Elgar Publishing Ltd. Also in: Jean Gabszewicz and Jacques-François Thisse (eds.), *Microeconomic Theories of Imperfect Competition: Old Problems and New Perspectives*, 1998; London: Edward Elgar Publishing Ltd. Jill J. McCluskey and Jason Winfree (eds.), *The Economics of Reputation*, 2017, London: Edward Elgar Publishing Ltd.

"Rational Cooperation in the Finitely Repeated Prisoners' Dilemma," co-authored with David Kreps, Paul Milgrom, and John Roberts, Journal of Economic Theory, Vol. 27, No. 2 (August 1982), pp. 245-252. Reprinted in: A. Rubinstein (ed.), *Game Theory*, 1991; London: Edward Elgar Publishing Ltd. doi:10.1016/0022-0531(82)90029-1

"Sequential Equilibria," co-authored with David Kreps, Econometrica, Vol. 50, No. 4 (July 1982), pp. 863-894. <u>http://www.jstor.org/stable/1912767</u>

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#### • Game Theory—Auctions and Bidding

"Existence of Equilibria in All-Pay Auctions" co-authored with Srihari Govindan. Available as <u>Research Paper 2058</u>, July 2010, and at <u>SSRN</u>: <u>http://ssrn.com/abstract=1650291</u>. Submitted to Econometrica.

"Existence of Equilibria in Auctions with Interdependent Values: Two Symmetric Bidders," co-authored with Srihari Govindan. Available as <u>Research Paper 2057</u>, July 2010, and at <u>SSRN</u>: <u>http://ssrn.com/abstract=1639615</u>.

"Existence of Equilibria in Private-Value Auctions," co-authored with Srihari Govindan. Available as <u>Research Paper 2056</u>, July 2010, and at <u>SSRN</u>: <u>http://ssrn.com/abstract=1639599</u>

"Sequential Equilibria of Asymmetric Ascending Auctions: The Case of Lognormal Distributions," Economic Theory, Vol. 12, No. 2 (October 1998), pp. 433–440. http://www.jstor.org/stable/25055131.

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"Equilibria of Bid-Ask Markets," in: Arrow and the Ascent of Economic Theory: Essays in Honor of Kenneth J. Arrow, G. Feiwel (ed.); Chapter 11, pp. 375-414. London and New York: Macmillan Press and New York University Press, 1987. [Google Books]

"Game-Theoretic Analyses of Trading Processes," in: Advances in Economic Theory: Fifth World Congress, Truman Bewley (ed.); Chapter 2, pp. 33-70. Cambridge UK: Cambridge University Press, 1987; reprinted in, *Recent Developments in the Economic Theory of Incentives*, David Martimort (ed.), 2017. [Google Books]

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"Incentive Efficiency of Double Auctions," Econometrica, Vol. 53, No. 5 (September 1985), pp. 1101-1116. Reprinted in: P. Klemperer (ed.), The Economic Theory of Auctions, Edward Elgar Publishing, London, 1999. <u>http://www.jstor.org/stable/1911013</u>

"On Competitive Bidding Applied," Chapter IV.4 in: Auctions, Bidding, and Contracting: Uses and Theory, Richard Engelbrecht-Wiggans, Martin Shubik, and Robert M. Stark (eds.), pp. 363-368. New York: New York University Press, 1983. ISBN 0814778275, 9780814778272. [Google Books]

"Auctions of Shares," Quarterly Journal of Economics, Vol. 93, No. 4 (November 1979), pp. 675-689. Reprinted in: P. Klemperer (ed.), The Economic Theory of Auctions, Edward Elgar Publishing, London, 1999. <u>http://www.jstor.org/stable/1884475</u>

"A Bidding Model of Perfect Competition," Review of Economic Studies, Vol. 4, No. 3 (October 1977), pp. 511-518. Reprinted in: P. Klemperer (ed.), The Economic Theory of Auctions, Edward Elgar Publishing, London, 1999. <u>http://www.jstor.org/stable/2296904</u>

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#### • Game Theory—Bargaining and Negotiation

"A Bargaining Model of Monetary Nonneutrality," Economie publique/Public Economics, Vol. 17, No. 2 (2005), pp. 161-171. ISSN 1373-8496. <u>http://economiepublique.revues.org/2529</u>

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#### • Game Theory—Models of Elections

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### • Game Theory—Computation

"A Decomposition Algorithm for N-Player Games," co-authored with Srihari Govindan, Economic Theory, Volume 42, Number 1 (January 2010), pp. 97–117. Available as <u>Research Report 1967</u> and at SSRN: <u>http://ssrn.com/abstract=1007569</u> doi:10.1007/s00199-009-0434-4 <u>http://www.springerlink.com/openurl.asp?genre=article&id=doi:10.1007/s00199-009-0434-4</u>.

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"Supply Function Equilibrium in a Constrained Transmission System," Operations Research, Volume 56, Number 2 (March-April 2008), pp. 369-382. <u>http://dx.doi.org/10.1287/opre.1070.0421</u>. (Early version available as Chapter 3 of "Implementation of Resource Adequacy Requirements via Option Contracts," Report 1010712, Electric Power Research Institute, October 2005; and revised version as <u>Research Report 1966</u>, Stanford Business School, and at SSRN: <u>http://ssrn.com/abstract=998614</u>)

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Supplementary computer programs:

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