ROBERT M. ANDERSON

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Address:

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Date of Birth:

1951, Toronto, Ontario, Canada

Citizenship:

Dual American and Canadian

Education:

September 1974 -May 1977	Department of Mathematics, Yale University Ph.D. May 1977. Adviser: S. Kakutani Thesis Title: Star-finite Probability Theory
September 1969 -June 1973	University of Toronto B.Sc., specialization in Mathematics

Employment:

March 2020-present	International Eminent Research Professor, Korea University Business School
July 2013-present	Director, Center for Risk Management Research Professor of the Graduate School Coleman Fung Professor Emeritus of Risk Management Professor Emeritus of Economics and Mathematics University of California, Berkeley

December 2006 -June 2013	Director, Coleman Fung Risk Management Research Center, University of California, Berkeley
July 2007-June 2013	Coleman Fung Professor of Risk Management
July 1987 -June, 2013	Professor of Economics and Mathematics University of California, Berkeley
1989-1992 1996-1997	Chair, Department of Economics University of California, Berkeley
January 1993 -June 1993	Visiting Professor of Economics Johns Hopkins University
July 1988 -June 1989	Vice Chair, Department of Economics University of California, Berkeley
July 1983 -June 1987	Associate Professor of Economics and Mathematics, University of California, Berkeley
July 1982 -June 1983	Associate Professor of Economics Princeton University
September 1978 -June 1982	Assistant Professor of Mathematics and and Economics, Princeton University
September 1980 -June 1981	Visiting Assistant Professor of Economics, Yale University
July 1977 -August 1978	McMaster Fellow McMaster University
May 1973 -June 1974	President, Students' Administrative Council, University of Toronto

Fellowships and Honors:

2016	Oliver Johnson Award, University of California Academic Senate
2013	Graham and Dodd Scroll Award by *Financial Analysts Journal* for excellence in financial writing in 2012 Berkeley Social Science Service Award
2009	Berkeley Faculty Service Award Berkeley Division, University of California Academic Senate
1987-present	Fellow of the Econometric Society
1982-86	Alfred P. Sloan Research Fellow
1975-77	Canada Council Doctoral Fellowship
1975	Yale University Prize Fellowship in the Natural Sciences
1969	Prince of Wales Scholarship University of Toronto

Ph.D. Dissertations Supervised:

Farzad Pourbabaee, 2021
Markus Vasquez, 2017
Raymond C.Y. Leung (co-chair), 2016
Markus Pelger, 2015
John Y. Zhu, 2011
Jeffrey Holman, 2010
Roberto C. Raimondo, 2002
James McCarthy, 2000
Tarun Sabarwal, 2000
Addison D. Tsai, 2000
Paolo Ghirardato, 1995
Deborah Minehart, 1994
John K.-H. Quah, 1994
Gregory Engl, 1993
William Geller, 1988
Alejandro Manelli, 1988

Professional Activities:

Associate Editor, *Economic Theory*, 1998-2001
Associate Editor, *Econometrica*, July 1984-June 1990
Associate Editor, *Journal of Economic Theory*, December 1984-June 1989
Program Chair, Econometric Society North American Summer Meeting, June 1987
Organizer, NSF/NBER Conference-Seminar on the Theory of General Economic Equilibrium, March 1986
Program Committee, Econometric Society Fifth World Congress, Cambridge, MA August 1985
Program Committee, Econometric Society North American Winter Meeting, San Francisco, December 1983
Board of Directors, Canadian Mathematical Society (1981-1983)

Public Service:

Interviews on "Morning Edition" and "All Things Considered" reports on the impact of divestment, National Public Radio, September 1986

Appearance on "The Money Line," program on divestment, KQED-FM, August 1986

Expert testimony to the Task Force on AIDS, California Department of Health Services, on the Economic Impact of Adoption of Proposition 64, August 1986

Expert testimony to the San Francisco Human Rights Commission, on Economic Discrimination Against Unmarried Couples, March 1989

Letter to the Editor, *New York Times*, June 21, 1989 on the feasibility of contact tracing to control HIV infection (joint with John M. Quigley)

Member, Mayor's Task Force on Family Policy, City and County of San Francisco, June 1989-June 1991

Expert deposition in *Leary et al. v. Bank of America*, San Francisco Superior Court, 1992

University Service:

University of California system

Member, UC Health Benefits Advisory Committee, 2019-2020

Member, UC Medicare Advantage PPO RFP Proposal Review Committee, 2019

Member, UC Retiree Health Benefits Design Working Group, 2018-2019

Chair, University of California Academic Senate, 2011-12

Vice-Chair, University of California Academic Senate, 2010-11

Member, President's Advisory Council on Campus Climate, Culture, and Inclusion, 2010-2012

Presidential Task Force on Post-Employment Benefits, 2009-2010

Academic Senate representative to the University of California Retirement System Advisory Board, 2002-2010

Chair, Task Force on Investment and Retirement, University Committee on Faculty Welfare, 2002-2010

Member, University Committee on Faculty Welfare, Academic Senate, 1995-99, 2002-2010

Chair, University Committee on Faculty Welfare, Academic Senate, 1998-99

Member, Academic Council, Academic Senate, 1998-99

Vice Chair, University Committee on Faculty Welfare, Academic Senate, 1997-98

Member, Subcommittee on Affirmative Action of University Committee on Faculty Welfare, Academic Senate (prepared proposal to equalize University benefits to domestic partners of employees), 1992-1993

University of California, Berkeley

Placement Officer, Department of Economics, 1994-98, 2000-2006, 2007-2010

Member, Berkeley Division Committee on Faculty Welfare, 1994-1997, 1999-2010

Parliamentarian, Berkeley Division of the Academic Senate, 1996-2005

Chair, Department of Economics, 1989-1992, 1996-1997

Chair, Berkeley Division Committee on Faculty Welfare, Academic Senate, 1995-97

Member, Deferred Maintenance Policy Board, 1995-98
Member, Ad Hoc Committee on Faculty Re-Engagement, Berkeley Division, Academic Senate, 1995-96
Member, Ad Hoc Committee on the Calendar, Berkeley Division, Academic Senate, 1995-96
Member, Task Force on Governance, Berkeley Division, Academic Senate, 1995-96
Member, Travel Advisory Committee, 1995-96
Member, Travel Management Review Committee, 1995-96
Chair, ad hoc Committee to Review the Department of Agricultural and Resource Economics, 1994-98
Member, Vice-Chancellor's Committee to Review the Berkeley Campus Personnel Office, spring 1992
Vice-Chair, Department of Economics, 1988-1989
Chair, Personnel Committee, Department of Economics, spring 1985-spring 1987

Book:

[1] *Nonstandard Methods in Mathematical Economics*, 125 pages of intended 200 pages submitted to Econometric Society Monograph Series June 1990; revision invited.

Papers:

Publications:

[2] A Nonstandard Representation for Brownian Motion and Ito Integration, *Bulletin of the American Mathematical Society* 82(1976), 99-101

[3] A Nonstandard Representation for Brownian Motion and Ito Integration, *Israel Journal of Mathematics* 25(1976), 15-46

[4] (with Salim Rashid) A Nonstandard Characterization of Weak Convergence, *Proceedings of the American Mathematical Society* 69(1978), 327-332

[5] An Elementary Core Equivalence Theorem, *Econometrica* 46(1978), 1483-1487

[6] Core Theory with Strongly Convex Preferences, *Econometrica* 49(1981), 1457-1468

[7] A Market Value Approach to Approximate Equilibria, *Econometrica* 50(1982), 127-136

[8] Star-finite Representations of Measure Spaces, *Transactions of the American Mathematical Society* 271(1982), 667-687

[9] (with Hugo Sonnenschein) On the Existence of Rational Expectations Equilibrium, *Journal of Economic Theory* 26(1982), 261-278

[10] (with M. Ali Khan and Salim Rashid) Approximate Equilibria with Bounds Independent of Preferences, *Review of Economic Studies* 49(1982), 473-475

[11] (with Hugo Sonnenschein) Rational Expectations Equilibrium with Econometric Models, *Review of Economic Studies* 52(1985), 359-369

[12] Strong Core Theorems with Nonconvex Preferences, *Econometrica* 53(1985), 1283-1294

[13] Almost Implies Near, *Transactions of the American Mathematical Society* 296(1986), 229-237

[14] Notions of Core Convergence, pp. 25-46 in *Contributions to Mathematical Economics in Honor of Gerard Debreu*, Werner Hildenbrand and Andreu Mas-Colell (editors), North-Holland Publishing Company, Amsterdam (1986)

[15] Gap-Minimizing Prices and Quadratic Core Convergence, *Journal of Mathematical Economics* 16(1987), 1-15; Correction, *Journal of Mathematical Economics* 20(1991), 599-601.

[16] The Second Welfare Theorem with Nonconvex Preferences, includes as appendix Core Allocations and Pareto Optima Far from

Agents' Demand Correspondences (written jointly with Andreu Mas-Colell), *Econometrica* 56(1988), 361-382

[17] Core Allocations are Almost Utility-Maximal, *International Economic Review* 31(1990), 1-9

[18] Nonstandard Analysis with Applications to Economics, in Werner Hildenbrand and Hugo Sonnenschein (editors), Chapter 39 in *Handbook of Mathematical Economics*, volume IV, 1991, 2145-2208. Amsterdam: North-Holland Publishing Company

[19] The Core in Perfectly Competitive Economies, Chapter 14 in Robert J. Aumann and Sergiu Hart (editors), *Handbook of Game Theory with Economic Applications*, volume I, 1992, 413-457. Amsterdam: North-Holland Publishing Company

[20] EP Seeks EP: A Review of *Sex and Reason* by Richard A. Posner, *Journal of Economic Literature* XXI(1993), 191-198.

[21] Core Convergence in Perfectly Competitive Economies, pages 35-45 in Jean-Francois Mertens and S. Sorin(eds.), *Game-Theoretic Methods in General Equilibrium Analysis.* Dordrecht: Kluwer Academic Publishers, 1994.

[22] The Bargaining Set in Large Finite NTU Exchange Economies, pages 1-7 in Toru Maruyama and Wataru Takahashi (eds.), *Nonlinear and Convex Analysis in Economic Theory,* Lecture Notes in Economics and Mathematical Systems, Volume 419, Springer-Verlag 1995.

[23] (with William R. Zame), Edgeworth's Conjecture with Infinitely Many Commodities, *Mita Gakkai Zasshi* (*Mita Journal of Economics*), 89(1996), 17-28 (in Japanese).

[24] (with William R. Zame), Edgeworth's Conjecture with Infinitely Many Commodities: L^1, *Econometrica* 65(1997), 225-273.

[25] (with Walter Trockel and Lin Zhou), Nonconvergence of the Mas-Colell and Zhou Bargaining Sets, *Econometrica* 65(1997), 1227-1239.

[26] Convergence of the Aumann-Davis-Maschler and Geanakoplos Bargaining Sets, *Economic Theory* 11(1998), 1-37.

[27] (with William R. Zame), Edgeworth's Conjecture with Infinitely Many Commodities: Commodity Differentiation, *Economic Theory* 11(1998), 331-377.

[28] (with William R. Zame), Genericity with Infinitely Many Parameters, *Advances in Theoretical Economics* 1(2001), Article 1.

[29] Quick-Response Equilibrium, *Advances in Theoretical Economics*, to appear.

[30] (with Roberto C. Raimondo), Market Clearing and Derivative Pricing, *Economic Theory* 25(2005), 21-34.

[31] (with Roberto C. Raimondo), Equilibrium Pricing of Derivative Securities in Dynamically Incomplete Markets, in Christian Schultz and Karl Vind (eds.), *Institutions, Equilibria and Efficiency: Essays in Honor of Birgit Grodal*. Springer, 2006.

[32] (with Roberto C. Raimondo), Incomplete Markets with No Hart Points, *Theoretical Economics* 2(2007), 115-133.
http://www.econtheory.org/ojs/index.php/te/article/viewFile/20070115/1211

[33] Core Convergence, in Stephen Durlauf and Lawrence E. Blume (eds.), *The New Palgrave Dictionary of Economics, 2nd edition.* Palgrave McMillan, 2008.

[34] (with Roberto C. Raimondo), Equilibrium in Continuous-Time Financial Markets: Endogenously Dynamically Complete Markets, *Econometrica* 76(2008), 841-907. http://www3.interscience.wiley.com/journal/120081610/abstract

[35] (with Glenn Ellison and Drew Fudenberg), Location Choice in Two-Sided Markets with Indivisible Agents, *Games and Economic Behavior* 69(2010), 2-23. Reprinted in Japanese in *Mita Gakkai Zasshi* (*Mita Journal of Economics*), 101(2008), No.3.

[36] Core Allocations and Small Income Transfers, in Honor of Martin Shubik, *Journal of Mathematical Economics* 46(2010), 373-381.

[37] Time-Varying Risk Premia, *Journal of Mathematical Economics*, 47(2011), 253-259.

[38] (with Stephen W. Bianchi and Lisa R. Goldberg), Will My Risk Parity Strategy Outperform? *Financial Analysts Journal* 68(2012) Number 6 (November-December), 75-93. Awarded a 2012 Graham and Dodd Scroll Award for excellence in research and financial writing by Financial Analysts Journal. http://www.cfapubs.org/doi/abs/10.2469/faj.v68.n6.7

[39] (with Kyong Shik Eom, Sang Buhm Hahn and Jong-Ho Park), Autocorrelation and Partial Price Adjustment, *Journal of Empirical Finance* 24(2013), 78-93. http://dx.doi.org/10.1016/j.jempfin.2013.08.003

[40] (with Stephen W. Bianchi and Lisa R. Goldberg) Determinants of Levered Portfolio Performance, *Financial Analysts Journal* 70(2014), 53-72. http://www.cfapubs.org/doi/abs/10.2469/faj.v70.n5.6

[41] (with Stephen W. Bianchi and Lisa R. Goldberg) In Search of Statistically Valid Risk Factors, *Quantitative Finance* 15(2015), 385-393. http://dx.doi.org/10.1080/14697688.2014.952954

[42] (with Hyung Cheol Kang, Kyong Shik Eom, and Sang Koo Kang, Controlling Shareholders' Value, Long-Run Firm Value and Short-Term Performance, *Journal of Corporate Finance* 43(2017), 340-353. http://dx.doi.org/10.1016/j.jcorpfin.2017.01.013

[43] (with Haosui Duanmu and Aaron Smith), Mixing and Average Mixing Times for General Markov Processes, *Canadian Mathematical Bulletin*, published online August 14, 2020, http://dx.doi.org/10.4153/S0008439520000636

[44] (with Haosui Duanmu, David Schrittesser and William Weiss), Loeb Extension and Loeb Equivalence, *Proceedings of the American Mathematical Society*, to appear, https://arxiv.org/abs/2010.01842

Working Papers:

[45] The Differentiability of Aggregate Demand, preprint, McMaster University, November 1977.

[46] (with Dangxing Chen) Predicting Portfolio Return Volatility at Medium Horizons, 2018, https://ssrn.com/abstract=3302940

[47] (with Haosui Duanmu and Aaron Smith), Mixing Times and Hitting Times for General Markov Processes, 2018, https://arxiv.org/abs/1810.06087

[48] (with Haosui Duanmu and Aaron Smith), Mixing and Hitting Times for Gibbs Samplers and Other Non-Feller Processes, 2019.

[49] (with Haosui Duanmu, Aaron Smith and Jun Yang), Drift, Minorization and Hitting Times, 2019, https://arxiv.org/abs/1910.05904

[50] (with Haosui Duanmu, M. Ali Khan, and Metin Uyanik), "On Abstract Economies with an Arbitrary Set of Players and with Action Sets in a Locally-Convex Toplogical Vector Space," *Journal of Mathematical Economics*, Revision Submitted 2021.

[51] (with Haosui Duanmu, M. Ali Khan, and Metin Uyanik), “Walrasian Equilibrium Theory with and without Free-Disposal: Theorems and Counterexamples in an Infinite-Agent Context,” *Economic Theory*, Revision Requested 2021.

Policy Studies:

[52] Domestic Partner Benefits: A Primer for Lesbian and Gay Activists, pages 249-260 in Amy Gluckman and Betsy Reed, *Homo Economics*. New York: Routledge, 1997. [44] (with John M. Quigley) The Economic Impact of the Adoption of
Proposition 64, the LaRouche Initiative, Graduate School of Public Policy Working Paper #119, University of California, Berkeley, August 1986

[53] (with John M. Quigley) The Economic Impact of the Adoption of Proposition 102, the Dannemeyer Initiative, Graduate School of Public Policy Working Paper #153, University of California, Berkeley, September 1988

[54] Cost Estimates for Health Care Coverage of Domestic Partners of San Francisco City Workers, preprint, April 1991

Book Reviews:

[55] Review of *Nonstandard Analysis: A Practical Guide With Applications* by Robert Lutz and Michael Goze, published in *Bulletin of the London Mathematical Society* 15(1983), 94-95

[56] Review of *An Introduction to Nonstandard Real Analysis* by Albert E. Hurd and Peter A. Loeb, *Bulletin of the American Mathematical Society* 16(1987), 298-306

[57] Review of *The Theory of General Economic Equilibrium: A Differentiable Approach* by Andreu Mas-Colell, *Journal of Economic Literature* 25(1987), 138-140

[58] Review of *Nonstandard Analysis* by A. Robert, *American Scientist* 78(1990), 283-284

[59] Review of *Asset Management: A Systematic Approach to Factor Investing* by Andrew Ang, *Quantitative Finance* 15(2015), 923-927, http://dx.doi.org/10.1080/14697688.2014.983540