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## Curriculum Vitae

### RICHARD STARTZ

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<http://www.ProfitOfEducation.org>

#### Current Position:

University of California, Santa Barbara  
Professor of Economics, 2011-  
Professor of Statistics (by courtesy), 2012-

#### Previous Positions:

University of Washington:  
Castor Professor in Economics, 1999-2011  
Professor of Economics 1991-2011  
Adjunct Professor of Statistics, 2008-2011  
Associate Professor, 1984-91  
Chair, Department of Economics, 1995-2000  
Director, Institute For Economic Research, 1994-1995  
Robert and Larina Davis Distinguished Scholar, 2001-2005  
Divisional Dean for Infrastructure, College of Arts & Sciences, 2005-2006

#### Other:

Visiting Scholar, Federal Reserve Bank of NY, 2008-2009  
Visiting Associate Professor of Economics, Princeton University, 1989-90.  
Assistant Professor of Finance, Wharton School, Univ. of Penn., 1978-1984  
Visiting Assistant Professor of Economics, Graduate School of Business,  
Stanford University, 1982-83.  
Visiting Assistant Professor of Economics, UC San Diego, 1982.

#### Education:

Massachusetts Institute of Technology, Ph.D. Economics, 1978  
(Thesis title: "Interest Bearing Demand Deposits")  
Yale University, Scholar of the House, B.A., 1974

**Professional Activities:**

Editorial Board, *Contemporary Economics Policy*, 2016-  
Kansas University economics department outside review, chair, 2009.  
Texas A&M economics department outside review, chair, 2009.  
AEA/NSF Summer Fellowships, “founder” and coordinator 2006-2009, committee member 2009-2012.  
CSWEP (Committee on the Status of Women in the Economics Profession of the AEA) Board member 2006-2008  
GRE Economics Test Committee of Examiners, 1987-90

**University Activities:**

UC Santa Barbara

Graduate Advisor, Graduate Diversity Officer, Economics PhD Program, 2016-  
Program Review Panel, 2015-  
Undergraduate Council, 2012-, Vice Chair 2013-14, Chair 2014-2015  
Graduate Advisor, Master’s Program, 2012-2016

University of Washington:

Arts & Sciences College Council (promotion and tenure and Dean’s advisory committee, elected by faculty), 2004-2008.  
School of Marine Affairs Review Committee (chair), 2005  
Arts & Sciences Dean Review Committee, 2004-2005.  
CSSS Executive Committee, 2004-2005, 2006-2008, 2009-  
Arts & Sciences Ad Hoc Committee on Faculty Buy-Outs, 2003  
History Decennial Review Committee (chair), 2002  
Geography Chair Search Committee (chair), 2000.  
Strategic Planning for Information Technology Committee, A&S, 2000.  
Center For Capable Youth Review Committee (chair), 1998-99.  
Geography Chair Search Committee (chair), 1997.  
Computing and Technology Advisory Committee, A&S, UW 1996-2000.  
Academic Computing Advisory Committee, A&S, UW, 1986-89, 1993-95  
Academic Advisory Committee on Facilities, UW, 1996-97  
Center for Social Science Computation and Research Board, UW 1993-2002.  
Faculty Senate, University of Washington, 1985-1987

Executive Committee, University of Pennsylvania Chapter, AAUP 1979-81.

Grants:

“Assessing Teacher Effectiveness in a Career Context with Measurement Error,” Faculty General Research Grant, USCB, 2015.

“Displaced Production Due to Reuse and Recycling: Theory Development and Case Studies,” (with Roland Geyer) NSF Grant. CBET-1335478

“Enhancing Participatory Learning Through ‘Partial Flipping’ of the Classroom Experience,” Instructional Improvement Grant, UCSB, 2014.

“Using online technology to achieve a uniform minimum level of mathematical fluency for introductory econometrics,” Instructional Improvement Grant, UCSB, 2013.

“Retirement and Marital Bargaining,” (with Shelly Lundberg), National Institute on Aging.

“Confidence Regions and Inference in the Presence of Weak Instrument,” (with Charles Nelson and Eric Zivot), NSF Grant SBR-9711301.

**Publications:**

**Principal Scientific Papers**

- "Less than 2°C warming by 2100 unlikely" (with Adrian E. Raftery, Alec Zimmer, Dargan M.W. Frierson, and Peiran Liu), *Nature: Climate Change*, July 31, 2017.
- "On the Distribution of Worker Productivity: The Case of Teacher Effectiveness and Student Achievement," (with Dan Goldhaber), *Statistics and Public Policy*, Vol. 4, Issue, 1, 2017.
- "Toward Estimating Displaced Primary Production from Recycling: A Case Study of U.S. Aluminum," (with Trevor Zink and Roland Geyer), *Journal of Industrial Ecology*, forthcoming.
- "Functional diversity of catch mitigates negative effects of temperature variability on fisheries yields," (with Dee, L.E, Miller, S.J., Peavey, L.E., Gaines, S.D., Gentry, R., Bradley, D.E, Costello, C., & Lester, S.E.), *Proceedings of the Royal Society B*, Volume 283, issue 1836, August 2016.
- "A Market-Based Framework for Quantifying Displaced Production from Recycling or Reuse," (with Trevor Zink and Roland Geyer), *Journal of Industrial Ecology*, Volume 20, Issue 4, August 2016. (Outstanding Paper Award, Alliance for Research on Corporate Sustainability 2015 Annual Conference.)
- "Choosing the More Likely Hypothesis," *Foundations and Trends in Econometrics*, Vol. 7: No. 2, 2014.
- "Is it One Break or Ongoing Permanent Shocks That Explains U.S. Real GDP?," (with Sui Luo), *Journal of Monetary Economics*, Vol. 66, pp. 155-163, September 2014.
- "On the Implicit Uniform BIC Prior," *Economics Bulletin*, Vol. 34 No. 2 pp. 766-771, April 2014.
- "Non-Exponential Discounting: A Direct Test and Perhaps a New Puzzle," (with Kwok Ping Tsang), *B.E. Journal of Macroeconomics*, Vol. 12, Issue 1, Nov. 2012.
- "Policy Evaluation versus Explanation of Outcomes in Education: That is, is it the Teachers? Is it the Parents?," *Education Finance and Policy*, Vol. 7., No. 3, Summer 2012.
- "The Changing Relation Between the Canadian and U.S. Yield Curves," (with Kathlyn Lucia, Stephanie Price, and Edwin Wong), *Journal of International Money and Finance*, Vol. 30, No. 6, pp. 965-981, October 2011.
- "An Unobserved Components Model of the Yield Curve," (with Kwok Ping Tsang), *Journal of Money, Credit, and Banking*, Vol. 42, No. 8, pp.1613-1640, December 2010.
- "Does congress realign or smoothly adjust? A discrete switching model of congressional partisan regimes," (with Bryan D. Jones and Chang-Jin Kim), *Statistical Methodology*, Vol. 7, Issue 3, pp. 254-276, May 2010.
- "Measuring the NAIRU with Reduced Uncertainty: A Multiple Indicator-Common Component Approach," (with Arabinda Basistha), *Review of Economics and Statistics*, Vol. 80, No. 4, November 2008.

- “Estimation of Markov Regime-Switching Regression Models with Endogenous Switching,” (with Chang-Jin Kim and Jeremy Piger), *Journal of Econometrics*, Volume 143, Issue 2, April 2008.
- “Spurious Inference in the GARCH(1,1) Model When It Is Weakly Identified,” (with Jun Ma and Charles Nelson), *Studies in Nonlinear Dynamics and Econometrics*, Volume 11, Issue 1, 2007.
- “Binomial Autoregressive Moving Average Models with an Application to U.S. Recessions,” *Journal of Business and Economic Statistics*, Volume 26, Number 1, January 2008.
- “Information and Racial Exclusion,” (with Shelly Lundberg), *Journal of Population Economics*, Volume 20, Number 3, 2007.
- “The Dynamic Relationship Between Permanent and Transitory Components of U.S. Business Cycle,” (with Chang-Jin Kim and Jeremy M. Piger), *Journal of Money, Credit and Banking*, Volume 39, Issue 1, February 2007.
- “The Zero-Information-Limit Condition and Spurious Inference in Weakly Identified Models,” (with Charles Nelson), *Journal of Econometrics*, Volume 138, Issue 1, pp. 47-62, May 2007.
- “Improved Inference for the Instrumental Variable Estimator,” (with Charles Nelson and Eric Zivot) *Frontiers of Analysis and Applied Research: Essays in Honor of Peter C.B. Phillips*, Corbae, Durlauf, and Hansen, eds, Cambridge University Press, 2006.
- “Why Were Changes in the Federal Funds Rate Smaller in the 1990s?” (with Arabinda Basistha), *Journal of Applied Econometrics*, May/June 2004.
- “The Retirement-Consumption Puzzle: A Marital Bargaining Approach,” (with Shelly Lundberg and Steven Stillman), *Journal of Public Economics*, May 2003.
- “Inequality and Race: Models and Policy,” (with Shelly Lundberg), *Meritocracy and Economic Inequality*, Kenneth Arrow, Samuel Bowles, and Steven Durlauf, eds, Princeton University Press, 2000.
- “Valid Confidence Regions and Inference in the Presence of Weak Instruments,” (with Eric Zivot and Charles R. Nelson), *International Economic Review*, 39 (4), pp. 1119-46, November 1998.
- “Growth States and Shocks,” *Journal of Economic Growth*, Vol. 3, No. 3, pp. 203-215, September 1998.
- “Maximum Likelihood Estimation of Fractional Cointegration with an Application to U.S. and Canadian Bond Rates,” (with Michael Dueker), *Review of Economics and Statistics*, 80, pp 420-426, August 1998.
- “On the Persistence of Racial Inequality,” (with Shelly Lundberg), *Journal of Labor Economics*, Vol. 16, no. 2, pp. 292-323, April 1998.
- “Testing for Mean Reversion in Heteroskedastic Data Based on Gibbs-Sampling-Augmented Randomization,” (with Chang-Jin Kim and Charles R. Nelson), *Journal of Empirical Finance*, Vol. 5, No. 2, pp 131-154, June 1998.

- "Notes on Imperfect Competition and New Keynesian Economics," in *The New Macroeconomics: Imperfect Markets and Policy Effectiveness*, Cambridge University Press, Dixon and Rankin, eds., 1995. Republished as "Notas sobre competencia imperfecta y la nueva economía keynesiana," in *Crítica a la economía ortodoxa*, Miren Etxezarreta, ed., Universitat Autònoma de Barcelona, Bellaterra, 2004.
- "Mean Reversion in Stock Prices? A Reappraisal of the Empirical Evidence" (with Myung Jig Kim and Charles R. Nelson), *Review of Economic Studies*, Volume 58, No. 3, pp. 515-528, May 1991. Reprinted in *Market Efficiency: Stock Market Behavior in Theory and Practice* (International Library of Critical Writings in Financial Economics, 3), Andrew Lo, ed., Edward Elgar, 1997.
- "Some Further Results on the Exact Small Sample Properties of the Instrumental Variable Estimator," (with Charles R. Nelson), *Econometrica*, Volume 54, no. 4, 967-76, July 1990.
- "The Distribution of the Instrumental Variables Estimator and Its *t*-Ratio When the Instrument Is a Poor One," (with Charles R. Nelson), *Journal of Business*, January 1990.
- "Monopolistic Competition as a Foundation for Keynesian Macroeconomic Models," *Quarterly Journal of Economics*, November 1989, CIV (4).
- "A Markov Model of Heteroskedasticity, Risk, and Learning in the Stock Market" (with Christopher M. Turner and Charles R. Nelson), *Journal of Financial Economics*, volume 25, November 1989, pp. 3-22.
- "The Stochastic Behavior of Durable and Non-Durable Consumption," *Review of Economics and Statistics*, May 1989, LXXI (2), pp. 356-363.
- "Prelude to Macroeconomics," *American Economic Review*, December 1984, 74(5), pp. 881-892.
- "Can Money Matter?" *Journal of Monetary Economics*, May 1984, 13 (3), pp. 381-386.
- "Testing Rational Expectations by the Use of Overidentifying Restrictions," *Journal of Econometrics*, December 1983, 23, pp. 343-351.
- "Private Discrimination and Social Intervention in Competitive Labor Markets," (with Shelly J. Lundberg), *American Economic Review*, June 1983, 73 (3), pp. 340-347.
- "Computation of Linear Hypothesis Tests for Two-Stage Least Squares," *Economics Letters*, 1983, 11 (1-2), pp. 129-131.
- "Competition and Interest Rate Ceilings in Commercial Banking," *Quarterly Journal of Economics*, May 1983, XCVIII (2), pp. 255-265.
- "Do Forecast Errors or Term Premia Really Make the Difference Between Long and Short Rates?" *Journal of Financial Economics*, November 1982, 10 (3), pp. 323-329.

“Real versus Nominal Forecast Errors in the Prediction of Foreign Exchange Rates,” (with Stephen A. Meyer), *Journal of International Money and Finance*, August 1982, pp. 193-200.

“The NOW Account Experiment and the Demand for Money,” (with Joanna H. Frodin), *Journal of Banking and Finance*, June 1982, 6 (2), pp. 179-193.

“Unemployment and Real Interest Rates: Econometric Testing of Inflation Neutrality,” *American Economic Review*, December 1981, 71 (5), pp. 969-977.

“Implicit Interest on Demand Deposits: Reply,” (reply to July 1980 Comment by Mark Rush), *Journal of Monetary Economics*, May 1981, 7 (3), pp. 403-404.

“Implicit Interest on Demand Deposits,” *Journal of Monetary Economics*, October 1979, 5 (4), pp. 514-534.

### Working Papers

- “The Path to an Economics PhD,” (with Garrison Schlauch).
- “Feasible Generalized Least Squares Using Machine Learning” (with Steve Miller).
- “Improved Estimation of Peer Effects using Network Data” (with Alex Wood-Doughty).
- “The Next Hundred Years of Growth: Growth and Convergence.”
- “Are recoveries all the same: GDP and TFP?” (with Yu-Fan Huang and Sui Luo).
- “Less Than 2° C Warming by 2100 Unlikely,” (with Alec Zimmer, Adrian E. Raftery, Dargan M. W. Frierson).
- “On the Present Value Model in a Cross Section of Stocks,” (with Kwok Ping Tsang).
- “Bayesian IV: The Normal Case with Multiple Endogenous Variables,” (with Tim Cogley).
- “Bayesian Heteroskedasticity Robust Standard Errors.”
- “Robust Estimation of ARMA Models with Near Root Cancellation,” (with Tim Cogley).
- “Are Consumers Forward-Looking?”
- “The Tradeoff Between Inflation and the Real Economy: Forward-Looking Behavior and the Inflation Premium” (with Erika Gulyas).
- “Partial Adjustment As Optimal Response in a Dynamic Brainard Model.”
- “Addiction and Interdependence: Positive and Normative Predictions.”
- “More on the Exact Small Sample Distribution of the Instrumental Variable Estimator,” (with Charles R. Nelson).
- “Dynamic Aggregate Demand and New Keynesian Multipliers”.
- “Consumption With a Possibly Finite Horizon”.
- “Intertemporal Allocation Under Risk Neutrality” (with Ross M. Starr).
- “Public Information in Efficient Markets”.



## Other Scientific and Professional Publications

### Books

*Profit of Education*, Praeger, 2010.

*EViews Illustrated*, Quantitative Micro Software, 2007.

*Version 7*, Quantitative Micro Software, 2009 (prepared by publisher).

*Version 8*, IHS EViews, 2013 (prepared by publisher)

*Version 9*, IHS EViews, 2015 (prepared by publisher)

*Version 10*, IHS EViews, 2017 (prepared by publisher)

*Macroeconomics, 7<sup>th</sup> edition*, (with Rudiger Dornbusch and Stanley Fischer), McGraw-Hill, 1997. Italian translation, 1998. Spanish translation, 1999. Portuguese translation, 1999, Canadian translation, 1999, Chinese translation 2002.

*8<sup>th</sup> edition*, (with Rudiger Dornbusch and Stanley Fischer), 2001, Chinese translation 2003, Italian translation 2002, Australian translation 2002, German translation 2003.

*9<sup>th</sup> edition*, (with Rudiger Dornbusch and Stanley Fischer), 2003, Canadian translation 2005, Italian translation 2006, Spanish translation 2005.

*10<sup>th</sup> edition*, (with Rudiger Dornbusch and Stanley Fischer), 2007, Chinese translation 2011, Italian translation 2011, Indonesian translation 2011.

*11<sup>th</sup> edition*, (with Rudiger Dornbusch and Stanley Fischer), 2011, Azerbaijani translation 2016, Portuguese translation, 2013, Italian translation, 2014, Chinese translation, 2011.

*12<sup>th</sup> edition*, (with Rudiger Dornbusch and Stanley Fischer), 2014.

*Study-Guide to Accompany Macroeconomics*, McGraw-Hill, 1981, 1984, 1987, 1990, 1994.

*8087/80287/80387 for the IBM PC and Compatibles*, Third Edition, 1988. Brady Books (Simon and Schuster) (Originally issued as *8087 Applications and Programming for the IBM PC and Other PC's*, 1983, 1985.

*Working with 1-2-3*, Harper & Row, 1984.

### Articles, Book Reviews, etc.

"Age-Earnings Profile," *Encyclopedia of Education Economics and Finance*, Sage Publications, 2014.

"Review of *Econometric Modeling and Inference*," *Journal of the American Statistical Association*, vol. 104, no. 485, March 2009, p. 411.

“Introduction: On Being the Boss,” *CSWEP Newsletter*, Winter 2008

“Least Squares, Two-Stage,” *International Encyclopedia of the Social Sciences*, 2<sup>nd</sup> ed., MacMillan, 2008.

“Multicollinearity,” *International Encyclopedia of the Social Sciences*, 2<sup>nd</sup> ed., MacMillan, 2008.

“Comments on ‘Global Demographic Trends and Provisioning for the Future,’” *Government Spending on the Elderly*, Dimitri Papadimitriou, ed., Palgrave MacMillan, 2007.

CSWEP Board member biography, *CSWEP Newsletter*, Fall 2006.

“Review of *Econometric Theory and Methods*,” *Econometric Theory*, Vol. 21, 2005 pp.647-652.

“Discrimination and Its Resolution in the Economics Job Market: A Real Life Story,” (with Srobona Mitra), *Newsletter of the Committee on the Status of Women in the Economics Profession*, Fall 2003.

“Comments on ‘Are Nominal Wage Changes Skewed Away From Wage Cuts?’” pp. 133-136, Vol 81, Number 3, *Federal Reserve Bank of St. Louis Review*, May/June 1999.

“What Economists Say...,” *Communications of the ACM, Forum*, pp. 11-12, Vol. 37, No. 6, June 1994.

Review of *Specification, Estimation, and Analysis of Macro-Econometric Models*, by Ray C. Fair, Harvard University Press, 1984, *Journal of Economic Literature*, pp. 23-25, Vol. XXIII, June 1985.

“8087 Applications and Programming for the IBM PC and Other PCs” book excerpts published in *PC: The Independent Guide to IBM Personal Computers*, September 1983, 2 (4), pp. 414-440.

“The Methodology: A Framework for Analysis,” (with Robert A. Leone) in *Environmental Controls: The Impact on Industry*, Robert A. Leone, Ed., Lexington Books, 1976.

“The Pulp and Paper Industry” (with Robert A. Leone and Mark Farber), *ibid*.

#### More “popular” work

Newspaper columns published under *Common Sense: An Economist’s Letters*, variously appearing in the *Everett Herald*, the *Tacoma News-Tribune*, the *Bellingham Herald*, the *Walla Walla Union-Bulletin*, the *Yakima Herald-Republic*, the *Tri-City Herald*, and the *Puget Sound Business Journal*, can be found at <http://uwnews.org/sites/startz/default.aspx>.

Short heads:

WASL Fix	War on Pot
Iraq Help	Charity
Rainy Day Bill	'07 State Budget
Global Warming	Big Spenders
Climate Change	Homeopathy
Buy a Pol	Insurers’ Scam

Knock Knock	Carpenter Shortage
Immigration Myths	Bay State Leads
\$3 per Gallon Pain	Pricey Prisons
Testing Debate	Queue Jumpers
Focus on Blossoms	WASL Alternatives
March Madne\$\$	The 1% Solution
Mismeasuring WASL	High Stakes Testing
Good Giving	Bad Doctoring
Toothless Watchdog	Traffic's Toll
Great Expectations	Credit Scores
Financial Futures	Californicating
Paying to Guzzle	Proceeds of Pot
Buying a Hybrid	Masking Tape
Parents and Pot	Jury Duty
Tax Scams	Cherry Cam
Street Music	Budget Pie
Bad Remedies	Scientific Women
Price of Perfection	An Expert Opinion
Voting Referees	Priceless Things
Building a Wall	Electoral College
Malpractice Madness	Doctors and Lawyers
Education's Payoff	Grading Colleges
A Barter Deal	Farm Aid
Iraq's Potential	Summer and Stress
Gasoline Gouging?	Reality Check
Brown v. Board	Checked-Out Clerks
The Taxman	A Civil Marriage
Rainy Days	

“‘Smart’ highways, not bullet trains, for California,” *Los Angeles Times* op-ed, November 25, 2015.

“Good Pay, good schools,” (with Dan Goldhaber), *Los Angeles Times* op-ed, March 9, 2015.

“A case for paying teachers like tech workers,” (with Dan Goldhaber), *Seattle Times* op-ed, November 15, 2014.

“Valuing Teachers Means Recognizing Their Differences,” (with Dan Goldhaber), *CT News Junkie*, [http://www.ctnewsjunkie.com/ctnj.php/archives/entry/op-ed\\_valuing\\_teachers\\_means\\_recognizing\\_their\\_differences](http://www.ctnewsjunkie.com/ctnj.php/archives/entry/op-ed_valuing_teachers_means_recognizing_their_differences), March 22, 2012.

“A radical proposal for funding public colleges,” *Crosscut.com*, November 26, 2010

“Let’s pay our teachers a whole lot more,” *Crosscut.com*, November 19, 2010

“Evaluate teachers so we can pay them what they're worth,” *Crosscut.com*, September 16, 2010

“Take prudent approach to state budget,” *Seattle Post-Intelligencer* op-ed, December 10, 2008.

“Blocking school exit doors puts children at risk,” *Seattle Times* op-ed, October 1, 2004.

“How Seattle can move on schools and race,” *Seattle Times* op-ed, August 20, 2002.

“Fill empty airliners with food for refugees,” *Seattle Post-Intelligencer* op-ed, October 7, 2001.

“U.S. economy can handle the shock of this tragedy,” *Seattle Times* op-ed, September 13, 2001.

Various blog posts at <https://www.brookings.edu/blog/brown-center-chalkboard/> and at [www.ProfitofEducation.org](http://www.ProfitofEducation.org).