

William C. Horrace

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Center for Policy Research
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Fields of Interest

Econometrics, production & efficiency analysis, industrial organization, environmental & resource economics.

Education

Ph.D. Economics, Michigan State University, 1996. Advisor: Peter Schmidt.

Faculty Appointments

Melvin A. Eggers Economics Faculty Scholar, Syracuse University, 2011 - present.
Professor of Economics, Syracuse University, 2009 - present.
Visiting Faculty Scholar, University of California - Berkeley, 2007.
Associate Professor of Economics, Syracuse University, 2002 - 2009.
Associate Professor of Economics, University of Arizona, 2002 - 2003.
Assistant Professor of Economics, University of Arizona, 1996 - 2002.

Research Appointments

Research Co-Director, Upstate Health Research Network, 2009 - present.
Senior Research Associate, Center for Policy Research, Syracuse University, 2002 - present.
Research Economist, National Bureau of Economic Research, 2000 - 2008.

Editorial Appointments

Associate Editor, *Journal of Productivity Analysis*, 2009 - present.
Associate Editor, *Southern Economic Journal*, 2001 - 2006.

Teaching

Graduate: Econometrics, Econometric Topics, Mathematical Economics, Probability & Statistics, Forecasting.
Undergraduate: Econometrics, Probability & Statistics, Intermediate Micro & Macroeconomics.

Sponsored Projects

Upstate Health Research Network, Fair Health Incorporated (2009-2012) \$3,140,000.
Occupational Risk & Rights-Based Fisheries Policy, NSF, SES-0719105 (2007-2008), \$108,000.
A Structural Model of Motor Carrier Accident Behavior, Bridge Fund, Syracuse University (2005) \$15,000.
Research in Econometric Theory, The Maxwell School, Syracuse University (2003-2005) \$72,666.
The Economic Impact of the New Deal, NSF, SES-0214395 (2002-2004), \$386,827.
The Impact of the New Deal on Local Economic Development, NSF, SES-0080324 (2000-2002), \$283,187.
Research in Econometrics with Applications, University of Arizona Foundation (1997-2002) \$67,000.
Research in Econometric Theory, NSF Mentoring Supplement to SES-9222728 (1995), \$11,968.

Honors & Awards

Syracuse University Vice Chancellor's Research Fellow, 2002 - 2012.
Outstanding University of Arizona Faculty Award, Mortar Board Society, 1999.
Faculty Appreciation Award, University of Arizona, Eller School of Business Student Council, 1998, 1999.
Ford Foundation Diversity Fellow - Dissertation Award, 1995 - 1996.
King-Chavez-Parks Doctoral Fellow, 1993 - 1996.
Consortium on Institutional Cooperation Doctoral Fellow, 1991 - 1996.
Michigan State University Doctoral Fellow, 1991.
American Economic Association Minority Scholar, 1991.

Peer Reviewed Journal Articles (with hyperlinks)

1. Hicks RL, Horrace WC, Schnier KE. [Strategic substitutes or complements? The game of where to fish.](#) **Journal of Econometrics**, 168(2012): 70-80.
2. Feng Q, Horrace WC. [Alternative technical efficiency measures: skew, bias and scale.](#) **Journal of Applied Econometrics**, 27(2012): 253-268.
3. Barbe P, Horrace WC. [A critical reanalysis of Maryland State Police searches.](#) **The American Statistician**, forthcoming.
4. Horrace WC, Richards-Shubik S. [A Monte Carlo study of ranked efficiency estimates from frontier models.](#) **Journal of Productivity Analysis**, forthcoming.
5. Goucher J, Horrace WC. [The value of life: real risks and safety-related productivity in the Himalaya.](#) **Labour Economics**, 19(2012): 27-32.
6. Fishback PV, Flores-Lagunes A, Horrace WC, Kantor SE, Treber J. [The influence of the Home Owners' Loan Corporation on housing markets during the 1930's.](#) **Review of Financial Studies**, 24(2011): 1782-1813 (*lead article*).
7. Horrace WC, Parmeter CF. [Semiparametric deconvolution with unknown error variance.](#) **Journal of Productivity Analysis**, 35(2011): 129-141.
8. Horrace WC, Schnier KE. [Fixed-effect estimation of highly-mobile production technologies.](#) **American Journal of Agricultural Economics**, 92(2010): 1432-1445.
9. Felthoven RG, Horrace WC, Schnier KE. [Estimating heterogeneous capacity and capacity utilization in a multi-species fishery.](#) **Journal of Productivity Analysis**, 32(2009): 173-189.
10. Ural BP, Horrace WC, Jung JH. [Inter-industry gender wage gaps by knowledge intensity: discrimination and technology in Korea.](#) **Applied Economics**, 41 (2009): 1437-1452.
11. Horrace WC, Marchand JT, Smeeding TM. [Ranking inequality: applications of multivariate subset selection.](#) **Journal of Economic Inequality** 6(2008): 5-32 (*lead article*).
12. Flores-Lagunes A, Horrace WC, Schnier KE. [Identifying technically efficient fishing vessels: a non-empty, minimal subset approach.](#) **Journal of Applied Econometrics**, 22(2007): 729-745.
13. Feng Q, Horrace WC. [Fixed-effect estimation of technical efficiency with time-invariant dummies.](#) **Economics Letters**, 95(2007): 247-252.
14. Horrace WC, Oaxaca RL. [Results on the bias and inconsistency of ordinary least squares for the linear probability model.](#) **Economics Letters**, 90(2006): 321-327.
15. Fishback PV, Horrace WC, Kantor S. [The impact of New Deal expenditures on mobility during the Great Depression.](#) **Explorations in Economic History**, 43(2006): 179-222 (*lead article*).
16. Horrace WC. [Selection procedures for economics.](#) **Applied Economics Quarterly**, 52(2006): 357-374.
17. Horrace WC. [On ranking and selection from independent truncated normal distributions.](#) **Journal of Econometrics**, 126(2005): 335-354.
18. Horrace WC. [Some results on the multivariate truncated normal distribution.](#) **Journal of Multivariate Analysis**, 94(2005): 209-221.
19. Horrace WC. [On the ranking uncertainty of labor market wage gaps.](#) **Journal of Population Economics**, 18(2005): 181-187.
20. Fishback PV, Horrace WC, Kantor S. [Did New Deal grant programs stimulate local economies? A study of federal grants and retail sales during the Great Depression.](#) **Journal of Economic History**, 65(2005): 36-71.
21. Shaw JW, Horrace WC, Vogel RJ. [The determinants of life expectancy: an analysis of the OECD health data.](#) **Southern Economic Journal**, 71(2005): 768-783.
22. Goode MJ, Horrace WC, Sredl MJ, Howland JM. [Habitat destruction by collectors associated with decreased abundance of rock-dwelling lizards.](#) **Biological Conservation**, 125(2005): 47-54.

23. Druska V, Horrace WC. [Generalized moments estimation for spatial panel data: Indonesian rice farming.](#) **American Journal of Agricultural Economics**, 86(2004): 185-198.
24. Horrace WC, Keane TP. [Ranking and selection of motor carrier safety performance by commodity.](#) **Accident Analysis & Prevention**, 36(2004): 953-960.
25. Fraser IM, Horrace WC. [Technical efficiency of Australian wool production: point and confidence interval estimates.](#) **Journal of Productivity Analysis**, 20(2003): 169-190.
26. Horrace WC, Oaxaca RL. [Inter-industry wage differentials and the gender wage gap: an identification problem.](#) **Industrial & Labor Relations Review**, 54(2001): 611-618.
27. Horrace WC, Schmidt P. [Multiple comparisons with the best, with economic applications.](#) **Journal of Applied Econometrics**, 15(2000): 1-26 (*lead article*).
28. Horrace WC. [Tables of percentage points of the \$k\$ -variate normal distribution for large values of \$k\$.](#) **Communications in Statistics: Simulation & Computation**, 27(1998): 823-831.
29. Horrace WC. [Submodel estimation of a structural vector error correction model under cointegration.](#) **Economics Letters**, 59(1998): 23-29.
30. Horrace WC, Schmidt P, Witte AD. [Sampling errors and confidence intervals for order statistics: implementing the Family Support Act and welfare reform.](#) **Journal of Economic & Social Measurement**, 24(1998): 181-207.
31. Horrace WC, Schmidt P. [Confidence statements for efficiency estimates from stochastic frontier models.](#) **Journal of Productivity Analysis**, 7(1996): 257-282.

Edited Volumes, Chapters, Discussions, Entries & Reprints

1. WC Horrace, RC Sickles (coeditors). **Festschrift in Honor of Peter Schmidt**. Springer Science & Business Media, New York, NY, forthcoming.
2. Fishback PV, Horrace WC, Kantor S. Did New Deal Grant Programs Stimulate Local Economies? A Study of Federal Grants and Retail Sales During the Great Depression. Reprinted in **The Seminal Works of the Great Depression**, Vol. III, (RE Parker, ed.). Edward Elgar Publishing, Northampton, MA, (2011).
3. Horrace WC. **Stochastic Frontier Analysis**, in International Encyclopedia of Social Sciences, 2nd Edition, Vol. 8, (WA Darity, ed.). Thomson/Gale, Farmington Hills, MI (2008): 148-149.
4. Horrace WC. **Identification Problem**, in Encyclopedia of Social Science Research Methods, Vol. II, (M Lewis-Beck, A Bryman, & F Liao, eds.). Sage Publications, Thousand Oaks, CA (2004): 474-475.
5. Horrace WC, Hernandez C. [The characteristic function from a family of truncated normal distributions.](#) Problem 01.5.2, **Econometric Theory**, 17(2001): 1026.
6. Billings RB, Horrace WC, Agthe DE. [State space vs. econometric techniques for forecasting monthly urban water demand.](#) **Journal of Water Resources Planning & Management**, 125(1999): 241-242.

University & College Service

- Syracuse University, Maxwell School, Ad Hoc Volcker Chair Search Committee, 2011.
 Syracuse University, Vice Chancellor's Task Force on Faculty Salary Disparities, 2010-2011.
 Syracuse University, Maxwell School, Dean Search Committee, 2010 - 2011.
 Syracuse University, Maxwell School, D.P. Moynihan Chair Search Committee, 2008 - 2009.
 Syracuse University College of Arts and Sciences, Ad Hoc Promotion Advisory Committee, 2007.
 Syracuse University, Hearing Committee on Academic Freedom, Tenure, and Professional Ethics, 2006.
 Syracuse University College of Arts and Sciences, Promotion & Tenure Committee, 2004 - 2006.
 Syracuse University College of Arts and Sciences, Joint Committee on Statistics 2003.
 University of Arizona, Department of Africana Studies, Faculty Recruiting Committee, 1998.

Service to Profession

Co-organizer, Conference in Honor of Peter Schmidt, Rice University, 2011.
 Session Chair, European Workshop on Efficiency and Productivity Analysis, University of Verona. Jun 2011.
 Plenary Session Chair, North American Productivity Workshop, Rice University, 2010.
 Session Chair, Midwest Econometrics Group Meetings, Purdue, 2009.
 Session Chair, New York Camp Econometrics, Saratoga Springs, NY, 2007.
 Session Co-Organizer, ASSA Meetings, Philadelphia, PA, 2005.
 Session Chair, North American Productivity Workshop, Toronto, Canada, 2004.
 Session Chair, Latin American Econometric Society Meetings, Buenos Aires, Argentina, 2001.
 Discussant, Southern Economic Association Meetings, Baltimore, MD, 1998.
 Discussant, Econometric Society Summer Meeting, Montreal, Canada, 1998.
 Arizona Econometrics Group Organizer, 1996 - 2002.

Outreach

Board Member, Central New York Jazz Arts Foundation, 2011 - present.
 Police-Citizen Encounter Study in the City of Syracuse, Syracuse Common Council, 2005 & 2010.
 Caseload and Personnel Forecasting, Administrative Offices of the United States Courts, 2008 - 2009.
 Spatial Measures of Technical Efficiency, National Marine Fisheries Service, 2006 - 2008.
Greater Than the Sum: Systems Thinking in Tobacco Control, Monograph 18, National Cancer Institute, 2007.
 Syracuse University, Workshop on Minority Graduate Student Retention, 2006.
 Child Care Market Studies, States of Delaware, Massachusetts, and Florida, 1995 - present.
 Federal Motor Carrier Safety Administration, Motor Carrier Safety Analysis, 2000 - 2004.
 Freshman Forum Leader, College of Arts & Sciences, Syracuse University, 2003.
 Faculty Mentor, Blue Chip Leadership Program, University of Arizona, 2001.
 Guest Lecturer, Leadership Education and Development Program, University of Arizona, 1998 - 2001.
 Faculty Advisor, Flinn Scholarship Program, University of Arizona, 1998.
 Instructor, Executive MBA Program, University of Arizona, 1997 - 2001.
 Guest Lecturer, AEA Summer Minority Program, Stanford University, 1995.

Conferences

Conference in Honor of Peter Schmidt, Rice University. Jun 2011. **Invited**
 European Workshop on Efficiency and Productivity Analysis. University of Verona. Jun 2011. **Refereed**
 North American Productivity Workshop. Rice University. Jun 2010. **Refereed**
 Midwest Econometrics Group Meetings. Purdue University. Sep 2009. **Refereed**
 North American Productivity Workshop. New York University. Jun 2008. **Refereed**
 New York Camp Econometrics, Ithaca, NY. Apr 2008. **Invited**
 Auctions and Games: A Conference for the Journal of Econometrics. Oct 2007. **Invited**
 North American Productivity Workshop. New York University. Jun 2006. **Refereed**
 New York Camp Econometrics, Saratoga Springs, NY. Feb 2006. **Invited**
 American Economic Association Meetings. Philadelphia, PA. Jan 2005. **Invited**
 Southern Economic Association Meetings. New Orleans, LA. Nov 2004. **Invited**
 North American Productivity Workshop. University of Toronto. Jun 2004. **Refereed**
 Current Developments in Productivity and Efficiency Measurement. University of Georgia. Oct 2002. **Invited**
 Econometric Society Meetings. University of San Andreas, Buenos Aires. Jul 2001. **Refereed**
 American Economic Association Meetings. Boston, MA. Jan 2000. **Invited**
 International Conference on Multiple Comparisons. Berlin, Germany. Jun 2000. **Invited**
 Efficiency & Productivity Workshop. Royal Vet. & Agric. University, Copenhagen. Oct 1999. **Refereed**
 National Bureau of Economic Research, Summer Institute. Cambridge, MA. Jul 1999. **Invited**
 Southern Economic Association Meetings. Baltimore, MD. Nov. 1998 **Invited**
 Econometric Society North American Meetings. University of Montreal. Aug 1998. **Refereed**
 Efficiency & Productivity Workshop. Royal Vet. & Agric. University, Copenhagen. Oct 1997. **Refereed**
 Efficiency & Productivity Workshop. Université Catholique de Louvain, Belgium. Oct 1995. **Refereed**
 Midwest Econometrics Group Meetings. Washington University, St. Louis. Oct 1995. **Invited**

Keynote Addresses, Government Briefings & Testimony

Delaware 2011 Childcare Market Rate Study. Division of Social Services, Dover Delaware. Apr 2011.
Police-Citizen Encounters in Syracuse, New York. City of Syracuse, Common Council. Sep & Nov 2010.
Delaware 2009 Childcare Market Rate Study. Division of Social Services, Dover Delaware. Mar 2009.
Police-Citizen Encounters in Syracuse, New York. City of Syracuse, Common Council. Feb & May 2006.
Faculty Convocation Address, Syracuse University, College of Arts & Sciences Convocation, May 2005.
Motor Carrier Safety by Commodity Segment. Federal Motor Carrier Safety Administration. Jan 2003.

Invited Seminars & Workshops

2011: Illinois, Southern Methodist, Texas A&M.
2010: William & Mary.
2009: Arizona, Connecticut, Cornell, Indiana, Michigan State.
2008: Binghamton, California - Berkeley, Florida, Rice, Washington State.
2007: Arizona State, Clemson, Georgia, RPI.
2006: Arizona, UC Berkeley, Drexel, Michigan State, SUNY (Albany), Union, Virginia Tech.
2005: Florida State, Rutgers, Texas A&M.
1995-2004: Arizona, Arizona State, Binghamton, Georgetown, Indiana, Missouri, MIT, North Carolina, North Carolina State, Princeton, Rice, Syracuse, Texas - Austin (2x), Wayne State.

Thesis Committees

Reshad Ahsan, Nayef Al-Shammari, Elizabeth Ashby, Douglas Bergman, Francisco Bido, Alexander Bogin, Yong Chen, Ana Dammert, Daron Djerdjian, Viliam Druska, Qu Feng, Andrew Friedson, Nadia Greenhalgh-Stanley, Andrew Grodner, Ratidanai Hoonsawat, Ryan Johnson, Anil Kumar, Liqun Liu, Xuepeng Liu, Xiaoli Liang, Joseph Marchand, Allison Marier, Cristian Meghea, Mukta Mukherjee, Sang Gon Na, Kontee Nuchsuwan, Marcel Nzeukou, Cameron Rookley, Kenneth Roskelley, Amanda Ross, Jonathan Schwabish, Jeong Eun Shin, Claudia Smith, Alexander Sugiyama, Supriya Sarnikar, Ryan Sullivan, Sally Turbyville, Beyza Ural, Jerry Yang.

Refereeing

Accid Anal & Prev, Australian Econ Pap, BE J Econ Anal & Policy, Bernoulli, Econ Inq, Comm Stat, Comput Stat & Data Anal, Economet Revs, Econ Educ Rev, Emp Econ, Energy J, J Appl Economet, J Bus & Econ Stat, J Clin Psych, J Economet, J Econ Hist, J Hum Res, J Lab Econ, J Pop Econ, J Prod Anal, J of Reg Sci, J Urb Econ, Lab Econ, Metrika, Portuguese Econ J, Pub Mgmt Rev, Rev Econ & Stat, South Econ J.