

Eric A. Hanushek

Paul and Jean Hanna Senior Fellow

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Education

1965	B.S.	(Distinguished Graduate) U.S. Air Force Academy
1968	Ph.D.	(Economics) Massachusetts Institute of Technology Thesis: "The Education of Negroes and Whites"

Learned Societies

American Economic Association
American Education Finance Association
(Board of Directors, 2006-2009)
Association for Public Policy Analysis and Management
(Policy Council, 1981-85; vice president, 1986-87; president, 1988-89)
Econometric Society
Society of Labor Economists
(Fellow, 2006-)
American Educational Research Association
(Fellow, 2008-)
International Institute of Public Finance

Honors

Fellow, International Academy of Education, 1997
(Board of Directors, 2002- 2008)
Fellow, Society of Labor Economists, 2006
Member, National Academy of Education, 2006
Fellow, American Educational Research Association, 2008
Fordham Prize for Excellence in Education (distinguished scholarship), 2004

Military Service

U.S. Air Force, 1965-74

Academic Experience

- 2000- Paul and Jean Hanna Senior Fellow, Hoover Institution, Stanford University
Professor (by courtesy) of Education (2001-)
Senior Fellow (by courtesy), Stanford Center for International Development [SCID], Stanford Institute for Economic Policy Research [SIEPR], (2003-)
Professor (by courtesy) of Economics (2004-)
- 2017- John H. Makin Visiting Scholar, American Enterprise Institute (AEI)
- 2003- Chairman, Executive Board, Texas Schools Project, University of Texas at Dallas
- 2000- Senior Research Fellow, University of Texas at Dallas
- 1995- Research Associate, National Bureau of Economic Research
- 2006- Research Professor, Ifo Institute for Economic Research (University of Munich)
- 2013- Research Fellow, IZA Institute of Labor Economics
- 2008- Member, Management Team, Center for Analysis of Longitudinal Data in Education Research (CALDER)
- 2008- Area coordinator, Economics of Education, CESifo Research Network
- 2013-2016 Member, Council of Academic Advisers, American Enterprise Institute
- 1999-2015 Member, Koret Task Force on K-12 Education, Hoover Institution, Stanford University
- 2006-2008 Member, Scientific Advisory Council, Ifo Institute for Economic Research
- 1978-2000 Professor of Economics and Political Science, University of Rochester
Founding Director, W. Allen Wallis Institute of Political Economy (1991-99)
Professor of Public Policy (1992-2000)
Senior Research Associate, Rochester Center for Economic Research (1984-2000; Director, 1994-99)
Chairman, Department of Economics (1982-87; 1988-90; 1991-93)
- 1999-2000 Distinguished Visiting Fellow, Hoover Institution, Stanford University

- 1994 Visiting Fellow, Australian National University
- 1975-78 Associate Professor, Department of Economics and Institution for Social and Policy Studies, Yale University
- 1974 Lecturer, Virginia Polytechnic Institute (Reston Campus)
- 1968-73 Associate Professor of Economics, U.S. Air Force Academy (Assistant Professor, 1969-71; Instructor, 1968-69)
- 1970-71 Research Associate, J.F. Kennedy School of Government, Harvard University

Government Experience

- 2011-2013 Commissioner, **Equity and Excellence Commission**, U.S. Department of Education
- 2004-2010 Member, Board of Directors, National Board for Education Sciences
Chair, 2008- 2010
- 2008-2010 Member, Council of Economic Advisors, California
- 2007 Member, Governor's Commission for a College Ready Texas, Texas
- 2006 Chair, NCLB Growth Model Pilot Peer Review, U.S. Department of Education
- 2005-2008 Member, **Governor's Committee on Education Excellence**, California
- 2002-2006 Member, Independent Review Panel, National Assessment of Title I, U.S. Department of Education
- 2001-05 Member, NCES Finance Technical Review Committee, U.S. Department of Education
- 2002 Member, Advisory Council on Education Statistics, U.S. Department of Education
- 1994-98 Member, Board of Economic Advisors, New York State Assembly
- 1994-95 Member, Technical Panel on Trends and Issues in Retirement Savings, Advisory Council on Social Security
- 1987-95 Consultant, U.S. Department of Education
- 1986-89 Consultant, U.S. Commission on Civil Rights

- 1987-89 Chairman, Technical Advisory Panel, Congressional Budget Office
- 1985-87 Member, Panel of Economic Advisers, Congressional Budget Office
- 1983-85 Deputy Director, Congressional Budget Office
- 1974 Systems Analyst, Military Airlift Command, U.S. Air Force
- 1973-74 Senior Economist, Cost of Living Council
- 1971-72 Senior Staff Economist, Council of Economic Advisers

Other Experience

- 2015- Global Economic Adviser, LearnCapital
- 2011-15 Director, CollegeSpring (formerly SEE College Prep)
- 2010-15 Member, Education Reform Advisory Group, George W. Bush Institute
- 2010-15 Director, GreatSchools
- 2007-15 Member, Review Board for Broad Prize for Urban Education
- 2000-01 Member, Committee on Scientific Principles of Education Research, National Academy of Sciences/National Research Council
- 2000 Member, Historic Preservation Commission, Town of Brighton, NY
- 1998-2001 Member, Panel on Data and Methods for Measuring the Effects of Changes in Social Welfare Programs, National Academy of Sciences/National Research Council
- 1992-98 Member, Committee on National Statistics, National Academy of Sciences/National Research Council
- 1993-97 Chairman, Panel on Retirement Income Modeling, National Academy of Sciences/National Research Council
- 1990-94 Chairman, Panel on the Economics of Educational Reform (PEER)
- 1984-95 Consultant, The World Bank
- 1992 Chairman, Blue Ribbon Commission on Monroe County Finances, Monroe

County, NY

- 1988-91 Chairman, Panel to Evaluate Microsimulation Models for Social Welfare Programs, National Academy of Sciences/National Research Council
- 1977-83 Consultant, Mathematica Policy Research
- 1976-78 Member, Mayor's Task Force on Education, New Haven, CT
- 1975-77 Senior Research Associate, Institute for Demographic and Economic Studies
- 1975-77 Consultant, Abt Associates
- 1972-74 Member, RFF-Academy for Contemporary Problems, Metropolitan Governance Research Committee
- 1969-73 Consultant, The Rand Corporation

Invited Lectures

City University Distinguished Lecture , City University of Hong Kong, 2018

Spring Distinguished Speaker , Crane Center, The Ohio State University, 2016

Vilfredo Pareto Lecture , Collegio Carlo Alberto, 2013

Harris Lecture , Clemson University, 2013

Waino Pihl Lecture , Wayne State University, 2012

Distinguished Scholar Lecture , Martin School of Public Policy, University of Kentucky, 2010

Giblin Lecture , University of Tasmania, 2009

Hannah Lecture , Michigan State University, 2009

Gilbert Memorial Lecture , University of Rochester, 2008

Spencer Foundation Distinguished Lecture , Association for Public Policy Analysis and Management, 2005

Sweat Lecture , Georgia State University, 2005

Birger Lecture , Tufts University, 2005

Lee Hysan Lecture , Chinese University of Hong Kong, 2004

Askwith Lecture , Harvard University, 2003

Reilly Lecture , Louisiana State University, 2002

Mullen Lecture , University of Maryland, Baltimore County, 1999

Saks Memorial Lecture , Vanderbilt University, 1996

Editorial Activities

- 2016- Editorial Board, *Chinese Economics of Education Review*
- 2015- Editorial Advisory Board, *Journal of Professional Capital and Community*
- 2013- Co-Editor, *CESifo Economic Studies*
- 2007- Associate Editor, *Journal of Human Capital*
- 2005- Editorial Board, *Education Finance and Policy*
- 2000- Editorial Board, *Education Next*
- 1982- Editorial Board, *Economics of Education Review*
- 1978- 2015 Advisory Editor, *Social Science Research*
- 2004-2010 Co-editor, *Education Policy Series* , International Academy of Education/International Institute for Educational Planning, UNESCO
- 2002-2008 Editorial Board, *Fundamentals of Educational Planning* , UNESCO
- 2003-2007 Associate Editor, *Economic Bulletin*
- 1995-2002 Associate Editor, *Review of Economics and Statistics*
- 1997- 2001 Editorial Board, *Educational Evaluation and Policy Analysis*
- 1994-2001 Editorial Board, *Journal of Policy Analysis and Management*
- 1994-96 Editorial Board, *Socio-Economic Planning Sciences*
- 1991-97 Associate Editor, *Regional Science and Urban Economics*
- 1990-95 Editorial Board, *Journal of Economic Education*

- 1992-95 Advisory Board, *American Journal of Education*
- 1990-94 Co-editor, *Journal of Human Resources*
- 1987-1989 Associate Editor, *Evaluation Review*

PUBLICATIONS

Books and Monographs

[Handbook of the Economics of Education, Volume 5.](#) (co-editor with Stephen J. Machin and Ludger Woessmann). *Amsterdam: North Holland, 2016.*

[The Knowledge Capital of Nations: Education and the Economics of Growth.](#) (with Ludger Woessmann). Cambridge, MA: MIT Press, 2015, 262 pages.

[Universal Basic Skills: What countries stand to gain.](#) (with Ludger Woessmann). *Paris: OECD Publishing, 2015, 110 pages.*

[Endangering Prosperity: A Global View of the American School.](#) (with Paul E. Peterson and Ludger Woessmann). *Washington, DC: Brookings Press, 2013, 147 pages.*

[Handbook of the Economics of Education, Volume 4.](#) (co-editor with Stephen J. Machin and Ludger Woessmann). *Amsterdam: North Holland, 2011, 708 pages.*

[Handbook of the Economics of Education, Volume 3.](#) (co-editor with Stephen J. Machin and Ludger Woessmann). *Amsterdam: North Holland, 2010, 616 pages.*

[Schoolhouses, Courthouses, and Statehouses: Solving the Funding-Achievement Puzzle in America's Public Schools.](#) (with Alfred A. Lindseth). *Princeton University Press, 2009, 432 pages.*

[Handbook of the Economics of Education, Volume 2.](#) (co-editor with Finis Welch). *Amsterdam: North Holland, 2006, 742 pages.*

[Handbook of the Economics of Education, Volume 1.](#) (co-editor with Finis Welch). *Amsterdam: North Holland, 2006, 700 pages.*

[Courting Failure: How School Finance Lawsuits Exploit Judges' Good Intentions and Harm our Children.](#) (editor). *Stanford: Education Next Books, 2006, 366 pages.*

[Institutional Models in Education: Legal Framework and Methodological Aspects for a New Approach to the Problem of School Governance.](#) (co-editor with Enrico Gori, Daniele Vidoni and Charles Glenn). *Nijmegen, Netherlands: Wolf Legal Publishers, 2006, 243 pages.*

The Economics of Schooling and School Quality - Volume II: Efficiency, Competition, and Policy. (editor). *London: Edward Elgar Publishing Ltd., 2003.*

The Economics of Schooling and School Quality - Volume I: Labor Markets, Distribution, and Growth. (editor). *London: Edward Elgar Publishing Ltd., 2003, 976 pages.*

Assessing Policies for Retirement Income: Needs for Data, Research, and Models. (co-editor with Constance F. Citro). *Washington, DC: National Academy Press, 1997, 256 pages.*

Improving America's Schools: The Role of Incentives. (co-editor with Dale W. Jorgenson). *Washington, DC: National Academy Press, 1996, 280 pages.*

Assessing Knowledge of Retirement Behavior. (co-editor with Nancy L. Maritato). *Washington, DC: National Academy Press, 1996, 288 pages.*

Modern Political Economy: Old Topics, New Directions. (co-editor with Jeffrey S. Banks). *New York: Cambridge University Press, 1995, 283 pages.*

Making Schools Work: Improving Performance and Controlling Costs. *Washington, DC: The Brookings Institution, 1994, 200 pages.*

Educação Rural: Lições do Edurural. (with João Batista F. Gomes Neto, Ralph W. Harbison, and Raimundo Hélio Leite). *São Paulo: Editora da Universidade de São Paulo, 1994, 236 pages.*

Educational Performance of the Poor: Lessons from Rural Northeast Brazil. (with Ralph W. Harbison). *New York: Oxford University Press, 1992, 362 pages.*

Improving Information for Social Policy Decisions: The Uses of Microsimulation Modeling - Volume II: Technical Papers. (co-editor with Constance F. Citro). *Washington, DC: National Academy Press, 1991, 368 pages.*

Improving Information for Social Policy Decisions: The Uses of Microsimulation Modeling - Volume I: Review and Recommendations. (co-editor with Constance F. Citro). *Washington, DC: National Academy Press, 1991, 360 pages.*

Statistical Methods for Social Scientists. (with John E. Jackson). *New York: Academic Press, 1977, 374 pages.*

Education and Race: An Analysis of the Educational Production Process. *Lexington, MA: D.C. Heath, 1972, 176 pages.*

Articles

Missouri's Economic Future Lies with School Reform. *Missouri Policy Journal*, 6, Spring 2018, 23-38.

[The Value of Smarter Teachers: International Evidence on Teacher Cognitive Skills and Student Performance.](#) (with Marc Piopuik and Simon Wiederhold). *Journal of Human Resources*, forthcoming.

[Economic Gains from Educational Reform by US States.](#) (with Jens Ruhose and Ludger Woessmann). *Journal of Human Capital*, 11(4), Winter 2017, 447-486.

[Knowledge Capital and Aggregate Income Differences: Development Accounting for U.S. States.](#) (with Jens Ruhose and Ludger Woessmann). *American Economic Journal: Macroeconomics*, 9(4), October 2017, 184-224.

[Defining Productivity in Education: Issues and Illustrations.](#) (with Elizabeth Ettema). *The American Economist*, 65(2), October 2017, 165-183.

[Coping with Change: International Differences in the Returns to Skills.](#) (with Guido Schwerdt, Simon Wiederhold, and Ludger Woessmann). *Economic Letters*, 153, April 2017, 15-19.

[General Education, Vocational Education, and Labor-Market Outcomes over the Life-Cycle.](#) (with Guido Schwerdt, Ludger Woessmann, and Lei Zhang). *Journal of Human Resources*, 52(1), Winter 2017, pp. 49-88.

[For Long Term Economic Development, Only Skills Matter.](#) *IZA World of Labor*, 343, 2017.

[Dynamic Effects of Teacher Turnover on the Quality of Instruction.](#) (with Steven G. Rivkin and Jeffrey C. Schiman). *Economics of Education Review*, 55, December 2016, 132-148.

[School Resources and Student Achievement: A Review of Cross-Country Economic Research.](#) (with Ludger Woessmann). In Monica Rosén, Kajsa Yang Hansen, and Ulrika Wolff (ed.). *Cognitive Abilities and Educational Outcomes: A Festschrift in Honour of Jan-Eric Gustafsson*, Springer, 2017, pp. 149-171.

[Skills, Mobility, and Growth.](#) (with Ludger Woessmann). In Alexandra Brown, David Buchholz, Daniel Davis, and Arturo Gonzalez (ed.). *Economic Mobility: Research & Ideas on Strengthening Families, Communities & the Economy*, St. Louis, MO: Federal Reserve Bank of St. Louis and the Board of Governors of the Federal Reserve System, 2016, pp. 423-449.

[Will more higher education improve economic growth?.](#) *Oxford Review of Economic Policy*, 32(4), Winter 2016, pp. 538-552.

[Education and the Nation's Future.](#) In George P. Shultz (ed.), *Blueprint for America*, Stanford, CA: Hoover Institution Press, 2016, pp. 89-108.

[It Pays to Improve School Quality.](#) (with Jens Ruhose and Ludger Woessmann). *Education Next*, 16(3), Summer, Summer 2016, pp. 16-24.

[What Matters for Achievement: Updating Coleman on the Influence of Families and Schools.](#) *Education Next*, 16(2), Spring 2016, pp. 22-30.

[School human capital and teacher salary policies.](#) *Journal of Professional Capital and Community*, 1(1), 2016, pp. 23-40.

[Knowledge Capital, Growth, and the East Asian Miracle.](#) *Science*, 351(6271), January 22, 2016, pp. 344-345.

[Land Use Controls, Fiscal Zoning, and the Local Provision of Education.](#) (with Kuzey Yilmaz). *Public Finance Review*, 49(5), September 2015, pp. 559-585.

[The Preschool Debate: Translating Research into Policy.](#) In Ingrid Gould Ellen, Edward L. Glaeser, Eric A. Hanushek, Matthew E. Kahn, and Aaron M. Renn, *The Next Urban Renaissance: How Public-Policy Innovation and Evaluation Can Improve Life in America's Cities*, New York: Manhattan Institute for Policy Research, 2015, pp. 25-40.

[Why Standard Measures of Human Capital are Misleading.](#) *KDI Journal of Economic Policy*, 37(2), 2015, 22-39.

[The Economic Impact of Educational Quality.](#) (with Ludger Woessmann). In Pauline Dixon, Steve Humble, and Chris Counihan (ed.). *Handbook of International Development and Education*, Cheltenham, UK: Edward Elgar Publishing, 2015, pp. 6-19.

[Economics of Education.](#) In James D. Wright (ed.), *International Encyclopedia of the Social and Behavioral Sciences, 2nd Edition*, Oxford: Elsevier, April 2015, 149-157.

[Returns to Skills around the World: Evidence from PIAAC.](#) (with Guido Schwerdt, Simon Wiederhold, and Ludger Woessmann). *European Economic Review*, 73, January 2015, pp. 103-130.

[Finding the Right Focus.](#) In María de Ibarrola and D.C. Phillips (ed.), *Leaders in Educational Research*, Rotterdam: Sense Publishers, 2014, pp. 93-105.

[Is Location Fate? Distributional Aspects of Schooling.](#) In Gregory K. Ingram and Daphne A. Kenyon (ed.), *Education, Land, and Location*, Cambridge, MA: Lincoln Institute of Land Policy, 2014, pp. 25-61.

[Achievement Gap.](#) In Denis C. Phillips (ed.), *Encyclopedia of Educational Theory and Philosophy*, Los Angeles: SAGE Reference, 2014, pp. 4-7.

[U.S. Students from Educated Families Lag in International Tests.](#) (with Paul E. Peterson and Ludger Woessmann). *Education Next*, 14(4), Fall 2014, pp. 8-18.

[Institutional Structures of the Education System and Student Achievement: A Review of Cross-country Economic Research.](#) (with Ludger Woessmann). In Rolf Strietholt, Wilfried Bos, Jan-

Eric Gustafsson, and Monica Rosen (ed.). *Educational Policy Evaluation through International Comparative Assessments*, Munster, Germany: Waxman, 2014, pp. 145-175.

[Borrowing Constraints, College Aid, and Intergenerational Mobility](#). (with Charles Ka Yui Leung and Kuzey Yilmaz). *Journal of Human Capital*, 8(1), Spring 2014, pp. 1-41.

[Boosting Teacher Effectiveness](#). In Chester E. Finn Jr. and Richard Sousa (ed.), *What lies ahead for america's children and their schools*, Stanford, CA: Hoover Institution Press, 2014, 23-35.

[School resources and educational outcomes in developing countries: A review of the literature from 1990 to 2010](#). (with Paul W. Glewwe, Sarah D. Humpage, and Renato Ravina). In Paul Glewwe (ed.). *Education Policy in Developing Countries*, Chicago: University of Chicago Press, 2013, pp. 13-64.

[Schools and location: Tiebout, Alonso, and governmental finance policy](#). (with Kuzey Yilmaz). *Journal of Public Economic Theory*, 15(6), December 2013, 829-855.

[Economic Growth in Developing Countries: The Role of Human Capital](#). *Economics of Education Review*, 37, December 2013, pp. 204–212.

[Does School Autonomy Make Sense Everywhere? Panel Estimates from PISA](#). (with Susanne Link and Ludger Woessmann). *Journal of Development Economics*, 104, September 2013, pp. 212-232.

[School Leaders Matter: Measuring the impact of effective principals](#). (with Gregory F. Branch and Steven G. Rivkin). *Education Next*, 13(1), Winter 2013, pp. 62-69.

[Financing Schools](#). In John Hattie and Eric M. Anderman (ed.), *International Guide to Student Achievement*, New York: Routledge, 2013, pp. 134-136.

[Do Better Schools Lead to More Growth? Cognitive Skills, Economic Outcomes, and Causation](#) . (with Ludger Woessmann). *Journal of Economic Growth*, 17(4), December 2012, pp. 267-321.

[Schooling, Educational Achievement, and the Latin American Growth Puzzle](#) . (with Ludger Woessmann). *Journal of Development Economics*, 99(2), November 2012, pp. 497-512.

[The Cost of Ignorance](#). In Norberto Bottani and Daniele Checchi (Ed.), *La Sfida Della Valutazione*, Bolgna, IT: Società Editrice il Mulino, 2012, pp. 39-46.

[Is the U.S. catching up? International and state trends in student achievement](#). (with Paul E. Peterson and Ludger Woessmann). *Education Next*, 12(4), Fall 2012, pp. 24-33.

[The Distribution of Teacher Quality and Implications for Policy](#). (with Stephen G. Rivkin). *Annual Review of Economics*, 4, September 2012, pp. 131-157.

[The Role of International Assessments of Cognitive Skills in the Analysis of Growth and Development.](#) (with Ludger Woessmann), In Matthias von Davier, Eugenio Gonzalez, Irwin Kirsch, and Kentaro Yamamoto (Ed.). *The Role of International Large-Scale Assessments: Perspectives from Technology, Economy, and Educational Research*, Dordrecht, Netherlands: Springer, 2012, 47-65.

[Achievement growth: International and state trends in student achievement.](#) (with Paul E. Peterson and Ludger Woessmann). *PEPG Report No. 12-03*, July 2012.

[Education quality and economic growth.](#) In Brendan Miniter (ed.), *The 4 percent solution: Unleashing the economic growth America needs*, New York: Crown Business, 2012, pp. 227-239.

[A flawed analysis of unrepresentative state achievement data.](#) *Educational Policy*, 26(3), May 2012, 360-368.

[Grinding the Antitesting Ax: More bias than evidence behind NRC panel's conclusions.](#) *Education Next*, Spring 2012, pp. 49-55.

[The Economic Benefit of Educational Reform in the European Union.](#) (with Ludger Woessmann). *CESifo Economic Studies*, 58(1), March 2012, pp. 73–109.

[Are U.S. Students Ready to Compete?.](#) (with Paul E. Peterson, Ludger Woessmann, and Carlos Xabel Lastra-Anadón). *Education Next*, 11(4), Fall 2011, pp. 51-59.

[Urban education, location, and opportunity in the United States.](#) (with Kuzey Yilmaz). In Nancy Brooks, Kieran Donaghy, and Gerrit-Jan Knaap (ed.). *Oxford Handbook of Urban Economics and Planning*, Oxford: Oxford University Press, 2011, pp. 583-615.

[Private Schools and Residential Choices: Accessibility, Mobility, and Welfare.](#) (with Sinan Sarpça and Kuzey Yilmaz). *B.E. Journal of Economic Analysis & Policy (Contributions)*, 11(1) article 44, 2011, pp. 1-32.

[Globally Challenged: Are U.S. Students Ready to Compete?.](#) (with Paul E. Peterson, Ludger Woessmann, and Carlos Xabel Lastra-Anadón). *PEPG Report No. 11-03*, Cambridge, MA: Program on Education Policy and Governance, Harvard University, August 2011.

[How Much Do Educational Outcomes Matter in OECD Countries?.](#) (with Ludger Woessmann). *Economic Policy*, 26(67), July 2011, pp. 427-491.

[The Economic Value of Higher Teacher Quality.](#) *Economics of Education Review*, 30(3), June 2011, pp. 466-479.

[Valuing Teachers: How Much is a Good Teacher Worth?.](#) *Education Next*, 11(3), Summer 2011, pp. 40-45.

[Teaching Math to the Talented: Which Countries - and States - are Producing High-Achieving Students?](#). (with Paul E. Peterson and Ludger Woessmann). *Education Next*, Winter 2011, pp. 10-18.

[Paying Teachers Appropriately](#). In Darrel Drury and Justin Baer (ed.), *The American Public School Teacher: Past, Present, and Future*, (Cambridge, MA: Harvard Education Press), 2011, pp. 109-118.

[Sample Selectivity and the Validity of International Student Achievement Tests in Economic Research](#). (with Ludger Woessmann). *Economics Letters*, 110(2), February 2011, pp. 79-82.

[The Economics of International Differences in Educational Achievement](#). (with Ludger Woessmann) in Eric A. Hanushek, Stephen Machin and Ludger Woessmann (ed.). *Handbook of the Economics of Education*, Vol. 3, Amsterdam: North Holland, 2011, pp. 89-200.

[How well do we understand achievement gaps?](#). *Focus*, 27(2), Winter 2010, pp. 5-12.

[U.S. Math Performance in Global Perspective: How Well Does Each State Do at Producing High-Achieving Students?](#). (with Paul E. Peterson and Ludger Woessmann). *PEPG Report No. 10-19*, Cambridge, MA: Program on Education Policy and Governance, Harvard University, November 2010.

[An Evidence-Based World](#). In Koret Task Force, *American Education in 2030: An Assessment by Hoover Institution's Koret Task Force on K-12 Education*, Stanford, CA: Hoover Institution, 2010.

[The Difference is Teacher Quality](#). in Karl Weber (ed.). *Waiting for "Superman": How We Can Save America's Failing Public Schools*. New York: Public Affairs, 2010, pp. 81-100.

[An Effective Teacher in Every Classroom: A lofty goal, but how to do it](#). (with Kati Haycock). *Education Next*, 10(3), Summer 2010, pp. 46-52.

[The Quality and Distribution of Teachers under the No Child Left Behind Act](#). (with Steven G. Rivkin). *Journal of Economic Perspectives*, 24(3), Summer 2010, pp. 133-150.

[Generalizations about Using Value-Added Measures of Teacher Quality](#). (with Steven G. Rivkin). *American Economic Review*, 100(2), May 2010, pp. 267-271.

[Education and Economic Growth](#). (with Ludger Woessmann) in Dominic J. Brewer and Patrick J. McEwan (ed.). *Economics of Education (Amsterdam: Elsevier, 2010)*, 2010, pp. 60-67.

[Education Production Functions: Developed Countries Evidence](#). in Dominic J. Brewer and Patrick J. McEwan (ed.). *Economics of Education (Amsterdam: Elsevier)*, 2010, pp. 132-136.

[The High Cost of Low Educational Performance: The Long-Run Impact of Improving PISA Outcomes](#). (with Ludger Woessmann). *Paris: Organization for Economic Cooperation and*

Development, 2010, pp. 1-55.

[Does Pollution Increase School Absences?](#). (with Janet Currie, E. Megan Kahn, Matthew Neidell, and Steve G. Rivkin). *Review of Economics and Statistics*, 91(4), November 2009, pp. 683-694.

[Teacher Deselection](#). In Dan Goldhaber and Jane Hannaway (ed.), *Creating a New Teaching Profession*, Washington, DC: Urban Institute Press, 2009, pp. 165-180.

[Many Schools Are Still Inadequate: Now what?](#). (with Alfred A. Lindseth and Michael A. Rebell). *Education Next*, 9(4), Fall 2009, pp. 49-56.

[School Policy: Implications of Recent Research for Human Capital Investments in South Asia and Other Developing Countries](#). *Education Economics*, 17(3), September 2009, pp. 291-313.

[New Evidence about Brown v. Board of Education: The Complex Effects of School Racial Composition on Achievement](#). (with John F. Kain and Steven G. Rivkin). *Journal of Labor Economics*, 27(3), July 2009, pp. 349-383.

[Harming the Best: How Schools Affect the Black-White Achievement Gap](#). (with Steven G. Rivkin). *Journal of Policy Analysis and Management*, 29(3), Summer 2009, pp. 366-393.

[Quality-Consistent Estimates of International Schooling and Skill Gradients](#). (with Lei Zhang). *Journal of Human Capital*, 3(2), Summer 2009, pp. 107-143.

[The Economic Value of Education and Cognitive Skills](#). In Gary Sykes, Barbara Schneider and David N. Plank (eds.), *Handbook of Education Policy Research*, New York: Routledge, 2009, pp. 39-56.

[Getting Down to Facts: School Finance and Governance in California](#). (with Susanna Loeb and Anthony Bryk). *Education Finance and Policy*, 3(1), Winter 2008, pp. 1-19.

[The Role of Cognitive Skills in Economic Development](#). (with Ludger Woessmann). *Journal of Economic Literature* 2008, 46(3), 2008, pp. 607-668.

[Do Students Care about School Quality? Determinants of Dropout Behavior in Developing Countries](#). (with Victor Lavy and Kohtaro Hitomi). *Journal of Human Capital*, 2(1), 2008, pp. 69-105.

[Education Production Functions](#). In Steven N. Durlauf and Lawrence E. Blume (eds.), *The New Palgrave Dictionary of Economics*, Basingstoke: Palgrave Macmillan, 2008.

[What Do Cost Functions Tell Us About the Cost of an Adequate Education?](#). (with Robert Costrell and Susanna Loeb). *Peabody Journal of Education*, 83(2), 2008, pp. 198-223.

[Incentives for Efficiency and Equity in the School System](#). *Perspektiven der Wirtschaftspolitik*,

9 (Special Issue), 2008, pp. 5-27.

[Education and Economic Growth: It's not Just Going to School but Learning That Matters.](#) (with Dean T. Jamison, Elliot A. Jamison and Ludger Woessmann). *Education Next*, 8(2), Spring 2008, pp. 62-70.

[The Effects of Education Quality on Mortality Decline and Income Growth.](#) (with Eliot A. Jamison and Dean T. Jamison). *Economics of Education Review*, 26(2), December 2007, pp. 772-789.

[The Single Salary Schedule and Other Issues of Teacher Pay.](#) *Peabody Journal of Education*, 82(4), October 2007, pp. 574-586.

[The Alchemy of 'Costing Out' an Adequate Education.](#) In Martin R. West and Paul E. Peterson (eds.), *School Money Trials: The Legal Pursuit of Educational Adequacy*, Washington, D.C.: Brookings Institution Press, 2007, pp. 77-101.

[Education Quality and Economic Growth.](#) (with Ludger Woessmann). Washington, DC: World Bank, July 2007, 27 pages.

[Some U.S. Evidence on how the Distribution of Educational Outcomes can be Changed.](#) In Ludger Woessmann and Paul E. Peterson (ed.), *Schools and the Equal Opportunity Problem*, Cambridge, MA: MIT Press, 2007, pp. 159-190.

[The Confidence Men: Selling Adequacy, Making Millions.](#) *Education Next*, 7(3), Summer 2007, pp. 73-78.

[Charter School Quality and Parental Decision Making with School Choice.](#) (with John F. Kain, Steven G. Rivkin, and Gregory F. Branch). *Journal of Public Economics*, 91(5-6), June 2007, pp. 823-848.

[Pay, Working Conditions, and Teacher Quality.](#) (with Steven G. Rivkin). *Future of Children*, 17(1), Spring 2007, pp. 69-96.

[The Economic Benefits of Improved Teacher Quality.](#) In Nils C. Soquel and Pierre Jaccard (ed.), *Governance and Performance of Education Systems*, Dordrecht, Netherlands: Springer, 2007, pp. 107-135.

[Teacher Quality.](#) (with Steven G. Rivkin) in Eric A. Hanushek and Finis Welch (ed.). *Handbook of the Economics of Education, Volume 2*, Amsterdam: North Holland, 2006, pp. 1052-1078.

[School Resources.](#) In Eric A. Hanushek and Finis Welch (Ed.), *Handbook of the Economics of Education, Volume 2*, Amsterdam: North Holland, 2006, pp. 865-908.

[Is There Hope for Expanded School Choice?](#) In Robert C. Enlow and Lenore T. Ealy, *Liberty and Learning: Milton Friedman's Voucher Idea at Fifty*, Washington, DC: Cato Institute, 2006,

pp. 67-79.

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