

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

Yidan Prize for Education Research, 2021
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-)
- 2020- Member, Council of Luminaries, Yidan Foundation
- 2019- Chairman, Hoover Education Success Initiative, Stanford University
- 2019- Co-Director, International Comparative Educational Policy Laboratory, Ifo Institute
- 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
- 2017-2018 John H. Makin Visiting Scholar, American Enterprise Institute (AEI)
- 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

- 2019- Member, National Assessment Governing Board
- 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
- 2007 Member, **Committee on Social Science Research Evidence on Racial Diversity in Schools**, National Academy of 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

IIMA-SRK Annual Lecture , Indian Institute of Management Ahmedabad, 2020

Leaders and Luminaries Lecture , University of Texas at Dallas, 2019

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

[Testing](#). (with Annika B. Bergbauer and Ludger Woessmann). *Journal of Human Resources*, forthcoming.

[Long-run Trends in the U.S. SES-Achievement Gap](#). (with Jacob Light, Paul E. Peterson, Laura M. Talpey, and Ludger Woessmann). *Education Finance and Policy*, forthcoming.

[Performance Information and Personnel Decisions in the Public Sector: The Case of School Principals](#). (with Julie Berry Cullen, Gregory Phelan, and Steven G. Rivkin). *Journal of Human Resources*, forthcoming.

[Patience, Risk-Taking, and Human Capital Investment across Countries](#). (with Lavinia Kinne, Philipp Lergetporer, and Ludger Woessmann). *Economic Journal*, 132 (646), 2022, pp. 2290-2307.

[The Basic Skills Gap](#). (with Ludger Woessmann). *Finance & Development*, 59(2), 2022, pp. 50-53.

[Residential Location and Education in the United States](#). (with Kuzey Yilmaz). In Charles K.Y. Leung (ed.). *Handbook of Real Estate and Macroeconomics*, Edward Elgar Publishing, 2022, pp. 106-136.

[The Political Economy of ILSAs in Education: The Role of Knowledge Capital in Economic Growth](#). (with Ludger Woessmann). *International Handbook of Comparative Large-Scale Studies in Education*, Springer, 2021.

[Education and Economic Growth](#). (with Ludger Woessmann). *Oxford Research Encyclopedia of Economics and Finance*, Oxford: Oxford University Press, 2021.

[Does the World Change for Teachers?](#). In Margaret E. Raymond (ed.), *How to Improve our Schools in the Post-COVID Era*, Stanford, CA: Hoover Institution, 2021.

[Budgeting During and For Recovery](#). In Margaret E. Raymond (ed.), *How to Improve our*

Schools in the Post-COVID Era, Stanford, CA: Hoover Institution, 2021.

[Addressing Cross-national Generalizability in Educational Impact Evaluation](#). *International Journal of Educational Development*, 80, 2021.

[United States: The Uphill Schools' Struggle](#). In Nuno Crato (ed.), *Improving a Country's Education: PISA 2018 Results in 10 Countries*, Cham, Switzerland: Springer, 2021, pp. 227-247.

[The Economic Impacts of Learning Losses](#). (with Ludger Woessmann). *Organisation for Economic Co-operation and Development*, 2020.

[Test-Based Accountability in Distressed Times](#). (with Chester E. Finn Jr.). *The State Education Standard*, September 20(3), 2020, pp. 13-17.

[A quantitative look at the economic impact of the European Union's educational goals](#). (with Ludger Woessmann). *Education Economics*, 28(3), 2020, 225-244.

[Education, Knowledge Capital, and Economic Growth](#). (with Ludger Woessmann). In Steve Bradley and Colin Green (ed.). *Economics of Education, 2nd Edition*, London: Academic Press, 2020, pp. 171-182.

[Education Production Functions](#). In Steve Bradley and Colin Green (ed.), *Economics of Education, 2nd Edition*, London: Academic Press, 2020, pp. 161-170.

[Quality Education and Economic Development](#). In Brajesh Panth and Rupert Maclean (ed.), *Anticipating and Preparing for Emerging Skills and Jobs: Key Issues, Concerns, and Prospects*, Singapore: Springer, 2020, pp. 25-32.

[The Evolution of Charter School Quality](#). (with Patrick L. Baude, Marcus Casey, Greg Phelan, and Steven G. Rivkin). *Economica*, 87(345), January 2020, pp. 158-189.

[The Unavoidable: Tomorrow's Teacher Compensation](#). *Hoover Education Success Initiative*, 2020.

[The Value of Smarter Teachers: International Evidence on Teacher Cognitive Skills and Student Performance](#). (with Marc Piopiunik and Simon Wiederhold). *Journal of Human Resources*, 54(4), Fall 2019, pp. 857-899.

[Knowledge Capital and Economic Growth](#). (with Ludger Woessmann). In Rolf Becker (ed.). *Research Handbook on the Sociology of Education*, Cheltenham, UK: Edward Elgar Publishing, 2019, pp. 476-497.

[Financing Schools](#). In John Hattie and Eric M. Anderman (ed.), *Visible Learning Guide to Student Achievement*, London: Routledge, 2019, pp. 92-97.

[The Fall of Educational Productivity and Policy Paralysis](#). In Lindsay M. Burke and Jonathan Butcher (ed.), *The Not-So-Great Society*, Washington, DC: Heritage Foundation, 2019, pp. 45-51.

[The Achievement Gap Fails to Close: Half Century of testing shows persistent divide between haves and have-nots](#). (with Paul E. Peterson, Laura M. Talpey, and Ludger Woessmann). *Education Next*, 19(3), Summer 2019, pp. 8-17.

[Testing, Accountability and the American Economy](#). *ANNALS of the American Academy of Political and Social Science*, 683, May 2019, 110-128.

[Do Smarter Teachers Make Smarter Students? International Evidence on Teacher Cognitive Skills and Student Performance](#). (with Marc Piopiunik and Simon Wiederhold). *Education Next*, 19(2), Spring 2019, pp. 57-64.

[Volkswirtschaftliche Folgen von Bildungsarmut: Was ein Entwicklungsziel „Grundkompetenzen für alle“ erreichen könnte](#). (with Ludger Woessmann). In Gudrun Quenzel and Klaus Hurrelmann (ed.). *Handbuch Bildungsarmut*, Springer VS, 2019, pp. 547-554.

[Education and the Growth-Equity Trade-off](#). In Charles Hulten and Valerie Ramey (ed.), *Education, Skills and Technical Change: Implications for Future U.S. GDP Growth*, Chicago: University of Chicago Press, 2019, pp. 293-312.

[Missouri's Economic Future Lies with School Reform](#). *Missouri Policy Journal*, 6, Spring 2018, pp. 23-38.

[Economic Gains from Educational Reform by US States](#). (with Jens Ruhose and Ludger Woessmann). *Journal of Human Capital*, 11(4), Winter 2017, pp. 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, pp. 184-224.

[Defining Productivity in Education: Issues and Illustrations](#). (with Elizabeth Ettema). *The American Economist*, 65(2), October 2017, pp. 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, pp. 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, pp. 132-148.

[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.

[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.

[Education Reform](#). In Scott W. Atlas, Jesús Fernández-Villaverde, Eric A. Hanushek, Edward P. Lazear, Lee Ohanian, Joshua D. Rauh, and Frank A. Wolak, *Economic Policy Challenges Facing California's Next Governor*, Stanford, CA: Hoover Institution Press, October 2018, pp. 19-23.

[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 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](#). (with Ludger Woessmann). *Science*, 351(6271), January 22, 2016, pp. 344-345.

[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.

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

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

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

[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, pp. 829-855.

[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.

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

[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.

[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, pp. 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, pp. 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.

[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.

[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.

[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.

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

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

[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.

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