

# Eric A. Hanushek

## Paul and Jean Hanna Senior Fellow

Stanford University

### Contact

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### Education

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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

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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

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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

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U.S. Air Force, 1965-74

## Academic Experience

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- 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

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- 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

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- 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**

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*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**

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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.

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[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.

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## Articles

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

---

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

---

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

---

[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.

---

[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 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.

---

[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.

---

[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.

---

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

---

[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.

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[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.

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[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.

---

[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.

---

[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.

---

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

---

[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.

---

[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.

---

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

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

---

[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.

---

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

---

[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.

---

[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.

---

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

---

[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.

---

[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.

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

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[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.

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[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.

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

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

---

[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.

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

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

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[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.

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[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.

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[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.

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[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.

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

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

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

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[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.

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[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.

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[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.

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[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.

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

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[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.

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