

CURRICULUM VITAE
DAVID P. BAKER

(2024)

PROFESSOR SOCIOLOGY, EDUCATION, DEMOGRAPHY

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EDUCATION

Post-Doctoral Fellow, Max-Planck Institute, Berlin Germany, 1982-84 Sociology

Ph.D. The Johns Hopkins University, Baltimore MD, 1982 Sociology

M.S. Boston University, Boston MA, 1975 Communication Research

B.A. Albion College, Albion MI, 1974 Psychology

ACADEMIC, PROFESSIONAL APPOINTMENTS

Professor of Sociology, Education, Demography, Pennsylvania State University 1997 to present

Guest Professor of Educational Science, University of Luxembourg 2019 to present

Nonresident Fellow, Global Economy and Development, Center for Universal Education, The Brookings Institute, Washington DC, 2017 to present

Research Affiliate, The Group for Analysis of Development (GRADE), Lima Peru 2010 to present

Research Scientist, The Center for the Study of Higher Education, The Pennsylvania State University 2014 to 2019

Associate, Population Research Institute, The Pennsylvania State University 1997 to present

Faculty Affiliate, Social Thought Program, College of Liberal Arts, Pennsylvania State University 2013 to present

Faculty Affiliate, Comparative International Education Joint Degree, Pennsylvania State University 1997 to present

Associate Professor, Department of Sociology, The Catholic University of America, Washington D.C 1989-97

Senior Research Scientist, The American Institutes for Research, Washington DC 1994-97

Assistant Professor, Department of Sociology, The Catholic University of America, Washington, DC 1984-89

Summer Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford, CA 1984

National Institute for Mental Health Ph.D. Training Fellow, The Johns Hopkins University, Baltimore MD 1979-82

AWARDS AND HONORS

Invited 2024 Keynote: "Falling Birthrates, Spreading Shadow Education, and Global Science Production: What do World Trends Mean for the Future of Korean Education?" First international scholar to deliver this address to the Korean Education Research Association.

The George Sarton Chair and Medal in the History of Science 2023-24, Ghent University, Belgium. Named in honor of George Sarton (1884-1956) the founder of the history of science as an academic discipline, the award distinguishes excellence in scholarship on the history, philosophy, and sociology of science.

The Ray Lombra Award for Distinction in the Social Sciences, 2022, College of the Liberal Arts PSU. Recognizes the tenured faculty member in the College whose outstanding work in the field of social sciences has demonstrated excellence in research and scholarship.

The Century of Science: The Global Triumph of the Research University. (Book #11) Winner Association for the Study of Higher Education's 2017 "Award for Significant Research on International Higher Education." PROSE Award for Excellence in Social Sciences: Education Theory, Association of American Publishers, 2018.

The Schooled Society: The Educational Transformation of Global Culture. (Book #10)
-Winner American Education Research Association "AERA Outstanding Book Award" 2015.
-Silver Medal Independent Publisher Book Award 2015.
-Winner Sejong Book Award in Academia, South Korean Ministry of Culture (Sejong the Great, renowned King of the Joseon Dynasty, 1397-1410) 2019.

National Differences, Global Similarities: World Culture and the Future of Schooling. (Book #9) Winner Sejong Book Award in Academia, South Korean Ministry of Culture 2016.

The Worldwide Transformation of Higher Education. (Book #7) Winner Comparative International Education Society Best of Books for the Academic Year 2009.

Risk Factor or Social Vaccine? The Historical Progression of the Role of Education in HIV/AIDS Infection in Sub-Saharan Africa. (Journal Article #57)
First Prize Research Award, Population Association of America 2009.

Socio-economic Status, School Quality, and National Economic Development: A Cross-national Analysis of the 'Heyneman-Loxley Effect' on Mathematics and Science Achievement. (Journal Article #44)
Outstanding International Study Award, American Education Research Association 2002.

Other

Deputy Editor, *Demography*. Flagship journal of the Population Association of America 2016-19.

Elected President of the Comparative International Education Society 2013.

Elected to Sociological Research Association, American Sociology Association 2009.

Guest Research Scientist, Institute for Higher Education Research, The Martin Luther University in Halle-Wittenberg, Germany 2005-06.

Fulbright New Century Scholar, "Higher Education in the 21st Century: Global Challenge and National Response" 2005-06.

Fulbright Senior Fellow, Max Planck Institute for Human Development, Berlin, Germany 2004.

Harry and Marion Eberly Endowed Faculty Fellow in Education, Penn State U. 2004-07.

Elected to Phi Delta Kappa International Honor Society 2000.

Alpha Delta Gamma Outstanding Teacher Award, The Catholic University of America 1996.

Senior Fellow American Educational Research Association to U.S. Dept. of Education, National Center for Education Statistics 1992-94.

Research Fellow The German Marshall Fund of the United States 1990.

Spencer Fellow National Academy of Education 1986-88.

GUEST LECTURES, KEY-NOTES, CONSULTANCIES (selected)

Korean Education Research Association, Korea

University of Ghent, Belgium
Wissenschaftszentrum Berlin (Social Science Research Center, Berlin)
Wissenschaftskolleg im Berlin (Institute for Advanced Study, Berlin)
 German National Academy of Sciences- *Leopoldina*
 United Nations Education, Scientific, Cultural Organization (UNESCO)
 U.S. State Department, Bureau of Educational and Cultural Affairs
 The World Bank, Washington DC
 OECD, Paris France
 U.S. National Academy of Sciences
 U.S. National Science Foundation
 National Center for Education Statistics, U.S. Dept. of Education
 Ministry of Education: Japan, UK, Chile, Republic of Korea, Taiwan, Lithuania
 Peruvian Education Research Association
 Harvard School of Public Health- Robert Wood Johnson Foundation
 U.S. Council of Graduate Schools
 The Brookings Institute
 U.S. Embassy, Cairo Egypt
 U.S. National Research Council
 Japan International Cooperation Agency
 Amsterdam Centre for Inequality Studies, University of Amsterdam
 Humboldt University of Berlin
 University of Flensburg, Germany
 The Martin Luther University in Halle-Wittenberg, Germany
 Sangmyung University, Republic of Korea
 University of Zagreb, Croatia
 University of Genoa, Italy
 University of Europe Institute, Florence Italy

RECENT MEDIA COVERAGE OF SCHOLARSHIP

Scientists around the world report millions of new discoveries every year – but this explosive research growth wasn't what experts predicted. (Baker and Powell authors)

The Conversation <https://theconversation.com>

Sustaining Universities and Mega-Science

Podcast on “The World of Higher Education” Higher Education Strategy Associates (HESA)

<https://worlded.transistor.fm/episodes>

Globalization of Universities and Science

https://www.youtube.com/watch?v=5_Ff39q73UY

University Versus Research Institute? The Dual Pillars of German Science Production, 1950–2010. (Journal Article #94),

Times Higher Education

<https://www.timeshighereducation.com/opinion/why-germany-not-embracing-humboldtian-university>

Brookings Economic Studies Report: *The contribution of human capital to economic growth: A cross-country comparison of Germany, Japan, and the United States* Baily et al. 2021.
<https://www.brookings.edu/research/the-contribution-of-human-capital-to-economic-growth/>

The Cognitive Impact of the Education Revolution: A Possible Cause of the Flynn Effect on Population IQ (Journal Article #77)

<http://www.psmag.com/nature-and-technology/more-evidence-that-intelligence-is-malleable>

<http://www.futurity.org/iq-education-intelligence-883672/>

The global triumph of the research university: A driving force of science production.
Education Plus Development, The Brookings Institute. (Book #11)

<https://www.brookings.edu/blog/education-plus-development/2018/03/29/the-global-triumph-of-the-research-university-a-driving-force-of-science-production/>

Why the spread of public education is unlikely to yield a secular world? The Brookings Institute, Education Plus Development Policy Brief Blog. 2019 (Journal Article #90)

<https://www.brookings.edu/blog/education-plus-development/2019/03/20/why-the-spread-of-public-education-is-unlikely-to-lead-a-secular-world/>

Do cyber charter schools harm public education for the most disadvantaged? The Brookings Institute, Education Plus Development Policy Brief Blog (Journal Article #89)

<https://www.brookings.edu/blog/education-plus-development/2019/06/24/do-cyber-charter-schools-harm-public-education-for-the-most-disadvantaged/>

TEDxFulbright Talk: *The Education Revolution and Our Global Future*

<https://www.youtube.com/watch?v=sv3CLr84UJU>

BIBLIOGRAPHY

Books

13. Stock, M., Mitterle A. and D. P. Baker (Eds.) (2024) *How Universities Transform Occupations and Work in the 21st Century: The Academization of German and American Economies*. Series on International Perspectives on Education and Society, Emerald Publishing: Bingley, U.K.

12. Baker, D. and Powell, J. (2024). *Global Mega-Science: Universities, Research Collaborations and Knowledge Production*. Stanford University Press.
11. Powell, J., Baker, D., and F. Fernandez, (Eds.) (2017). *The Century of Science: The Global Triumph of the Research University*. Emerald Publishing: Bingley, U.K.
10. Baker, D. (2014) *The Schooled Society: The Educational Transformation of Global Culture*. Palo Alto CA: Stanford University Press.
Translated and published 2015 by Education Science Press (교육과학사), Seoul Korea.
9. Baker, D., and G., LeTendre (2005) *National Differences, Global Similarities: World Culture and the Future of Schooling*. Stanford CA: Stanford University Press.
Translated and published 2010 by Pham Tan Hoang Son, Vietnam and 2015 by Education Science Press (교육과학사), Seoul Korea.
8. Baker, D. P., & Wiseman, A. W. (Eds.). (2009). Volume 10: *Gender, Equality, and Education from International and Comparative Perspectives*. International Perspectives on Education and Society Series (Bingley, UK: Emerald Publishing).
7. Baker, D. P., & Wiseman, A. W. (Eds.). (2008). Volume 9: *The Worldwide Transformation of Higher Education*. International Perspectives on Education and Society Series (Bingley, UK: Emerald Publishing).
6. Baker, D. P., & Wiseman, A. W. (Eds.). (2007). Volume 8: *Education for All: Global Promises, National Challenges*. The International Perspectives on Education and Society Series (Oxford: Elsevier Science, Ltd.).
5. Baker, D. P., & Wiseman, A. W. (Eds.). (2006). Volume 7: *The Impact of Comparative Education Research on Institutional Theory*. The International Perspectives on Education and Society Series (Oxford: Elsevier Science, Ltd.).
4. Baker, D. P., & Wiseman, A. W. (Eds.). (2005). Volume 6: *Global Trends in Educational Policy*. The International Perspectives on Education and Society Series (Oxford: Elsevier Science, Ltd.).
3. Baker, D. P. (Series Editor), (2002) Volume 5: *New Paradigms and Recurring Paradoxes in Education for Citizenship: An International Comparison*. Steiner, G., Torney-Purta, J., and Schwille, J. guest editors. The International Perspectives on Education and Society Series (Oxford: Elsevier Science, Ltd.).
2. Baker, D., B. Fuller, E. Hannum and R. Werum (eds.). (2004) *Inequality Across Societies: Families, Schools and Persisting Stratification*. Series in Sociology of Education, Vol. 14. Amsterdam: Elsevier.

1. Baker, D., Ethington, C., Sosniak, L. and Westbury, I. (eds.). *In Search of More Effective Mathematics Education: Evidence from the Second International Mathematics Study*. New Jersey: Ablex Publishing 1994.

Journal Articles

(45% published with graduate students; 40 different students)

101. Fu, Y., Marques, M., Tseng, Y. Powell, J. & D.P. Baker (2023). An Evolving International Research Collaboration Network: Spatial and Thematic Developments in Co- Authored Higher Education Research, 1998–2018. *Scientometrics* (An International Journal for all Quantitative Aspects of the Science of Science, Communication in Science and Science Policy).
100. Powell, J.J.W. & D.P. Baker (2021). Lone Genius or Swarm Intelligence? Myths about Germany’s Sponsorship of Research Institutes. *International Higher Education*, 107, Summer, 14-16. (Translated into Russian: «Гений-одиночка» или «роевой интеллект»? Мифы о финансировании научных институтов в Германии Джастин Пауэлл и Дэвид Бейкер)
99. Schaub, M., Kim, H., Jang, D. & D. P. Baker (2020). Policy reformer’s dream or nightmare? *Compare: A Journal of Comparative and International Education*, DOI: 10.1080/03057925.2020.1733797
98. Fernandez, F., Baker, D. P., Fu, Y. C., Muñoz, I. G., & Ford, K. S. (2021). A Symbiosis of Access: Proliferating STEM PhD Training in the US from 1920–2010. *Minerva: A Review of Science, Learning and Policy*, 79-98.
97. Baker, D. P. (2020). An inevitable phenomenon: Reflections on the origins and future of worldwide shadow education. *European Journal of Education*, 55(3), 311-315.
96. Muñoz, I., Baker, D., & Peters, E. (2020). Explaining the Education-Health Gradient in Preventing STIs in Andean Peru: Cognitive Executive Functioning, Awareness and Health Knowledge. *International Perspectives on Sexual and Reproductive Health*, 46, 113-124. doi:10.1363/46e9320
95. Baker, D. et. al. (2020). “Why is Germany not embracing the Humboldtian university? The focus on conducting research in independent institutes is holding the country back, say four academics.” *Times Higher Education* (THE) September 14, 2020. <https://www.timeshighereducation.com/opinion/why-germany-not-embracing-humboldtian-university>
94. Dusdal, J., Powell, J., Baker, D., Fu, Y., Shamekhi, Y. and M. Stock. (2020) University Versus Research Institute? The Dual Pillars of German Science Production, 1950–2010. *Minerva: A Review of Science, Learning and Policy*, 58:319–342.

93. Ford, K., Choi, J. and D. Baker. (2020) What if a College Major isn't Enough? Cognitive Skills and the Relationship between US College Majors and Earnings. *Industry and Higher Education*, 0950422220908187.
92. Schaub, M., Salinas, D., Halibi, S., & Baker, D. (2019). The Changing Faces of the Math Student: Images in US Early Elementary Mathematics Textbooks, 1904-1999. *Journal of Advances in Education Research*, 4(3).
91. Estrada-Mejia, C., Peters, E., Dieckmann, N., Zeelenberg, M., De Vries, M. and Baker, D. (2020). "Schooling, Numeracy, and Wealth Accumulation: A Study Involving an Agrarian Population." *Journal of Consumer Affairs*.
90. Baker, D. (2019). "The Great Antagonism that Never Was: Unexpected Affinities between Religion and Education in Post-Secular Society." *Theory and Society*, 48(1), 39-65.
89. Mann, B. and Baker, D. (2018). "Cyber Charter Schools and Growing Resource Inequality among Public Districts: Geospatial Patterns and Consequences of a Statewide Choice Policy in Pennsylvania, 2002-2014." *American Journal of Education*, 125(2).
88. Byun, S., Chung, H., and Baker, D. P. (2018). "Global Patterns of the Use of Shadow Education: Student, Family, and National Influences." *Research in the Sociology of Education*, 20, 71-105.
87. Fu, Y., Baker, D. P., and Zhang, L. (2108). "Engineering a World-Class University? The Impact of Taiwan's World Class University Project on Scientific Productivity." *Higher Education Policy*. (<https://rdcu.be/5udj>)
86. Baker, D., Smith, W., Muñoz, I., Jeon, H., Leon, J., Fu, T., Salinas, D., and R. Horvatek (2017). "The Population Education Transition Curve: Education Gradients across Population Exposure to New Health Risks." *Demography* 54(5) 1873-95. DOI: 10.1007/s13524-017-0608-9
85. Leon, J., Baker, D., Salinas, D. and A. Henck. (2017) "Is Education a Risk Factor or Social Vaccine against HIV/AIDS in Sub-Saharan Africa?" The Effect of Schooling across Public Health Periods. *Journal of Population Research*.
84. Mann, B. and Baker, D. (2017) "Schooling Attainment's Influence on Internet Adoption: Education's Role in the Cross-National Development of the Mass-Media Knowledge Gap" *FIRE: Forum for International Research in Education*.
83. Schaub, M., Henck, A., and Baker D. 2017. "The Globalized 'Whole Child': Cultural Understandings of Children and Childhood in Multilateral Aid Development Policy, 1946-2010." *Comparative Education Review*, 61, 2: 298-326.

82. Mann, B. and Baker, D. (2016) "What cyber charter schools are and why their growth should worry us." *The Conversation*. <https://theconversation.com/what-cyber-charter-schools-are-and-why-their-growth-should-worry-us-68471>
(on-line independent media source translating academic research into usable journalism, this article had 25,000 hits as of 4/2019, reprinted in over 8,000 other on-line sites including Newsweek and AP News).
81. Smith, W., Ikoma, S. and Baker, D. 2016. "Education, health, and labor force supply: Broadening human capital for national development in Malawi." *Cogent Education*: <http://dx.doi.org/10.1080/2331186X.2016.1149041>
80. Baker, D. (2015). A note on knowledge in the schooled society: Towards an end to the crisis in curriculum theory. *Journal of Curriculum Studies*, 47(6), 763-772.
79. Zhang, L., Powell, J., and D. Baker (2015) "Exponential Growth and the Shifting Center of Gravity of Science Production, 1900-2011." *Change: The Magazine of Higher Education*. 47,4 46-49.
<http://www.tandfonline.com/doi/full/10.1080/00091383.2015.1053777>
78. Jeon, H., Salinas, D. and Baker, D. (2015) "Non-linear Education Gradient across the Nutrition Transition: Mother's Overweight and The Population Education Transition." *Public Health Nutrition*. DOI:10.1017/S1368980015001640
77. Baker, D. et al. (2015) "The Cognitive Impact of the Education Revolution: A Possible Cause of the Flynn Effect on Population IQ." *Intelligence*, 49, March-April, 144-158.
76. Smith, W., Anderson, E., Salinas, D., Horvatek, R., and D. Baker. (2014). "A Meta-Analysis of Education Effects on Chronic Disease: The Causal Dynamics of the Population Education Transition Curve." *Social Science and Medicine*, 127, February 4, 29-40.
</dx.doi.org/10.1016/j.socscimed.2014.10.027>.
<http://authors.elsevier.com/sd/article/S027795361400673X>
75. Dieckmann, N., Peters, E., Leon, J., Benavides, M., P Baker, D., & Norris, A. (2015). The role of objective numeracy and fluid intelligence in sex-related protective behaviors. *Current HIV Research*, 13(5), 337-346.
74. Stevens, R., Lu, X., Baker, D., Ray, M., Eckert, S., & D. Gamson, (2015). "Assessing the Cognitive Demands of Elementary School Reading Curricula: An Analysis of Reading Text and Comprehension Tasks from 1910 to 2000." *American Education Research Journal*, Vol. 52, No. 3, pp. 582-617. DOI: 10.3102/0002831215573531
73. Salinas, D. and D. Baker (2014). "The Schooling Effect on Neurocognitive Development: Implications of a New Scientific Frontier for Comparative Education." *Annual Review of Comparative and International Education*.

72. Baker, D. (2014) "Minds, Politics, and Gods in the Schooled Society: Consequences of the Education Revolution." Presidential Address to the Comparative International Education Society, *Comparative Education Review*, 58,1, pp. 6-23.
71. Wiseman, A., F. Astiz, and D. Baker (2013) "Globalization and comparative education research: Misconceptions and applications of neo-institutional theory." *Journal of Supranational Policies of Education*. 1, 31-52.
70. Wiseman, A., Astiz, F. and Baker, D. (2013) "Comparative Education Research Framed by Neo-Institutional Theory: A Review of Diverse Approaches and Conflicting Assumptions." *Compare: A Comparative Journal of International Education* 44 (5), 688-709.
69. Halabi, S. Smith, W., Collins, J., Baker, D. & Bedford, J. (2013). A documentary analysis of HIV/AIDS education interventions in Ghana. *Health Education Journal* 72 (4), 486-500. doi:10.1177/0017896912450248
68. Baker, D., Salinas, D. and Eslinger, P. (2012). "An Envisioned Bridge: Schooling as a Neurocognitive Developmental Institution." *Developmental Cognitive Neuroscience*, 2S, S6– S17.
67. Smith Greenaway, E, Leon, J. and D. P. Baker (2012). "Understanding the association between maternal education and use of health services in Ghana: Exploring the role of health knowledge." *Journal of Biosocial Science* 44.06: 733-747.
66. Baker, D. (2012). "The Education Effect on Social Development: Intellectually and Politically Underappreciated." *Journal of Sociedad Peruana de Investigación Educativa*.
65. Baker, D., Leon, J., Smith Greenaway, E., Collins, J., and Movit, M. (2011) "The Education Effect on Population Health: A Reassessment." *Population and Development Review* 37(2): 307–332.
64. Baker, D. (2011). "Forward and Backward, Horizontal and Vertical: Transformation of Occupational Credentialing in the Schooled Society." *Research in Social Stratification and Mobility: A Journal of the International Sociological Association*, 29,1,5-29.
63. Wiseman A., Astiz, M.F., Fabrega, R., and Baker, D. (2011). "Making Citizens of the World: The Political Socialization of Youth in Formal Mass Education Systems." *Compare: A Comparative Journal of International Education*, 41, 5, 561-577.
62. Baker, D., Leon, J., and J. Collins (2010). "Facts, Attitudes, and Health Reasoning about HIV and AIDS: Explaining the Education Effect on Condom Use among Adults in

- sub-Saharan Africa.” *AIDS and Behavior*, 11(June), 1-9 doi: 10.1007/s10461-010-9717-9. <http://dx.doi.org/10.1007/s10461-010-9717-9>
61. Peters, E., Baker, D., Deickmann, N., Leon, J., and J. Collins. (2010). "Explaining the Education Effect on Health: A Field-Study from Ghana." *Psychological Science*, 21,10,1369-76.
60. Baker, D., Knipe, H., Cummings, E., Collins, J., Leon, J. Blair, C., and D. Gamson (2010). "One Hundred Years of American Primary School Mathematics: A Content Analysis and Cognitive Assessment of Textbooks from 1900 to 2000." *Journal of Research on Mathematics Education*, 41, 4, 383-423.
59. Baker, D. (2009). "The Educational Transformation of Work: Toward a New Synthesis." *Journal of Education and Work*, 22, 3, 163-193.
58. Baker, D. and Mori, I. (2010) "The Origin of Universal Shadow Education: What the Supplemental Education Phenomenon Tells Us about the Postmodern Institution of Education." *Asia Pacific Education Review*, 11, 1, 36.
57. Baker, D., Collins, J., and Leon, J. (2009). "Risk Factor or Social Vaccine? The Historical Progression of the Role of Education in HIV/AIDS Infection in Sub-Saharan Africa." *Prospects: Quarterly Review of Comparative Education*, 38, 4, 467-486, UNESCO: Paris France.
<http://www.springerlink.com/openurl.asp?genre=article&id=doi:10.1007/s11125-009-9097-y>
56. Eslinger, P., Blair, C., Wang, J., Lipovsky, B., Realmuto, J., Baker, D., Thorne, S., Gamson, D., Zimmerman, E., Rohrer, L., Yang, Q. (2009) "Developmental shifts in fMRI activations during visuospatial relational reasoning" *Brain and Cognition*, 69(1), 1-10.
55. Baker, D. (2008) Review of Gumport, P. "Sociology of Higher Education: Contributions & Their Contexts" *Contemporary Sociology* 37, 6, 613.
54. Baker, D. (2008). "Privatization, Mass Higher Education, and the Super Research University: Symbiotic or Zero-sum Trends?" *Die Hochschule* (German Journal on Higher Education) 2, 36-52.
53. Goesling, B. and Baker, D. (2008). "Three Faces of International Inequality." *Research in Social Stratification and Mobility: A Journal of the International Sociological Association*, 26, 183-198.
52. Baker, D. and Lenhardt, G. (2008). "The Institutional Crisis of the German Research University." *Higher Education Policy* 21, 49-64.

51. Mohrman, K., Ma, W., and Baker, D. (2008). "The Research University in Transition: The Emerging Global Model." *Higher Education Policy* 21, 1-17.
50. Baker, D. (2008) "Mass Higher Education and the Super Research University: A Symbiotic Relationship." *International Higher Education*, 2, 36-53.
49. Baker, D., Koehler, H. and M. Stock. (2007) "Socialist ideology and the contraction of higher education: Institutional consequences of state manpower and education planning in the former East Germany, 1949 to 1989." *Comparative Education Review*, 51, 3, 353-377.
48. Desimone, L., Smith, T., Baker, D., and Ueno, U. (2005) "The Distribution of Teaching Quality in Mathematics: Assessing Barriers to the Reform of U.S. Mathematics Instruction from an International Perspective" *American Education Research Journal* 42:33, 501-535.
47. Blair, C., D. Gamson, S. Thorne, and D. Baker. (2005) "Rising Mean IQ: Cognitive Demand of Mathematics Education for Young Children, Population Exposure to Formal Schooling, and the Neurobiology of the Prefrontal Cortex." *Intelligence*, 33 93-106.
46. Baker, D., Fabrega, R., Galindo, C., and J. Mishook. (2004). "Instructional Time and National Achievement: Cross-national Evidence." *Prospects, Quarterly Review of Comparative Education*, UNESCO: Paris France, XXXIV, 3, 311-334.
45. Akiba, M., G. LeTendre, D. Baker, and B. Goesling. (2002) "Student Victimization: National and School System Effects on School Violence in 37 Nations" *American Journal of Education Research*, 39, Winter.
44. Baker, D., Goesling, B. and LeTendre, G. (2002). "Socio-economic Status, School Quality, and National Economic Development: A Cross-national Analysis of the "Heyneman-Loxley Effect" on Mathematics and Science Achievement" *Comparative Education Review* 46 (3) 291-312.
43. Schaub, M., & Baker, D. (2002). Is social capital the self-esteem of the 1990's? Schooling and Social Capital in Diverse Cultures: *Annual Review of Sociology of Education*, 13, 127-134.
42. Astiz, M. Fernanda, Alexander Wiseman, and David P. Baker. 2002 "Slouching towards Decentralization: Consequences of Globalization for Curricular Control in National Education Systems." *Comparative Education Review* 46:66-88.

Reprinted in Bell, L. and Stevenson, H. 2013. *Organizing Public Education*. LA: Sage Publications.

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37. Baker, D., and LeTendre, G. (2000). "Comparative Sociology of Classroom Processes, School Organizations and Achievement." In Hallinan, M. (Ed.), *Handbook of Sociology of Education*, Plenum Pub. Co.
36. Baker, D. (1999). "Schooling All the Masses: Reconsidering the Origins of American Schooling in the Postbellum Era." *Sociology of Education*, 72 (4), pp. 197-215.
35. LeTendre, G., & Baker, D. (1998, June 17). "International Competitiveness in Science: Don't Blame U.S. Adolescents or Middle Schools for a 'Slump'." *Education Week*, pp. 16-51.
34. Baker, D., and Riordan, C. (1998) "It's Not about the Failure of Catholic Schools, It's about Demographic Transformation" *Phi Delta Kappan* October 1998 462-465.
33. Baker, D., and Riordan, C. (1998) "The 'Eliting' of the Common American Catholic School and the National Education Crisis. *Phi Delta Kappan*, September, pp. 16-23.
32. Baker, D., and Smith, T. "Three Trends in the Condition of Education in the United States." *Teachers College Record*, 99 (1) Fall, 1997.
31. Baker, D. and Smith, T. "The Condition of Academic Achievement in the Nation." *Teachers College Record*, 99 (1), Fall, 1997.
30. Baker, D. and Smith, T. "Teacher Turnover and Teacher Quality: Refocusing the Issues." *Teachers College Record*, 99 (1), Fall 1997.

29. Baker, D. and Smith, T. "A College Education For All?" *Teachers College Record*, 99 (1), Fall, 1997.
28. Baker, D. "Surviving TIMSS, or Everything You Blissfully Forgot About International Achievement Studies." *Phi Delta Kappan*, November, 1997.
27. Baker, D. and Holsinger, D. "Human Capital Formation and School Expansion in Asia: Does a Unique Regional Model Exist?" *International Journal of Comparative Sociology*, 1996.
Reprinted in Altbach, P. (ed.) *The Asian Educational Challenge*, SUNY Press, 1997.)
26. Youniss, J., Convey, J., & Baker, D. "Catholic Schools in a Changing Society." *Catholic Education*, Vol. 1, pp. 98-103.
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14. Baker, D. and Lenhardt, G. "Nationalismus und Arbeitsmarktintegration in der BRD (alt) (Nationalism and Labor Market Integration in the Former Federal Republic of Germany)" *Zeitschrift für Soziologie*, 20:6:463-78, 1991.
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23. Baker, D. "Do cyber charter schools harm public education for the most disadvantaged?" First appeared on The Brookings Institute, Education Plus Development Policy Brief Blog, June 4, 2019. <https://www.brookings.edu/blog/education-plus-development/2019/06/24/do-cyber-charter-schools-harm-public-education-for-the-most-disadvantaged/>
- 22.. Baker, D. "Why the spread of public education is unlikely to yield a secular world?" First appeared on The Brookings Institute, Education Plus Development Policy Brief Blog, March 20, 2019. <https://www.brookings.edu/blog/education-plus-development/2019/03/20/why-the-spread-of-public-education-is-unlikely-to-lead-to-a-secular-world/>
21. Baker, D. "The global triumph of the research university: A driving force of science production. With J. Dusdal, J. Powell, F. Fernandez. First appeared on The Brookings Institute, Education Plus Development Policy Brief Blog, March 18, 2018. <https://www.brookings.edu/blog/education-plus-development/2018/03/29/the-global-triumph-of-the-research-university-a-driving-force-of-science-production/>
19. Baker, D., Leon, J., Smith, E.G., Collins, J., and M. Movit. (2010). "Education and Population Health: A Reassessment." Population Research Institute, Pennsylvania State University Working Paper Series, #WP1003.
18. Baker, D. (2009) "The Schooled Society and Beyond: The Modernizing Role of Formal Education as an Institution." For the Beyond Current Horizons Project, Ministry of Education, U.K.: London: www.beyondcurrenthorizons.org.uk
17. Baker, D. senior author: *Organization for Economic Co-operation and Development (2009). Green at Fifteen? Environmental and Geoscience Literacy among 15-year old in PSIA 2006*. OECD: Paris France.

16. Baker, D. and Cummings, E. (2008) "Pennsylvania's Best Investment: The Social and Economic Benefits of Public Education." Policy White Paper for the Education Law Center, Philadelphia, PA.
15. Baker, D. collaborating author: Organization for Economic Co-operation and Development (2007). PISA 2006: Science Competencies for Tomorrow's World V.1, OECD: Paris France.
14. Chhetri, N., and D. Baker. (May 2005). "The Environment for Literacy among Nations: Concepts, Past Research, and Preliminary Analysis." Concept paper for the Education for All Monitoring and Report Team: UNESCO, Paris France.
13. Baker, D., (2002) "Should we be more like them? American High School Achievement in Cross-national Comparison. Brookings Papers on Education Policy, The Brookings Institute, Washington D.C.
12. Baker, D. P. (Spring 2001). "TIMSS-R: Innovation in International Information for American Educator." Education Statistics Quarterly, U.S. Department of Education.
11. Perie, M. and Baker, D. "Job Satisfaction Among America's Teachers: Effects of Workplace Conditions, Background Characteristics, and Teacher Compensation." Statistical Analysis Report, National Center for Education Statistics, U.S. Dept. of Education, NCES 97-471, 1997.
10. Han, Mei and Baker, D. "SASS 1993-94: A Profile of Policies and Practices for Limited English Proficient Students: Screening Methods, Program Support, and Teacher Training." Statistical Analysis Report, National Center for Education Statistics, U.S. Dept. of Education, NCES 97-472, 1997.
9. Baker, D., Han, M. and Broughman, S. "How different, How Similar: Comparing Key Organizational Qualities of American Public and Private Secondary Schools" Statistical Analysis Report, National Center for Educational Statistics, U.S. Department of Education. NCES 96-322, 1996.
8. Baker, D. "Convergence among National Education Systems." In Education Indicators in International Perspective, U.S. Dept. of Education, NCES, 1996.
7. Griffith, J., Owen, E. and Baker, D. "Strategic Plan for International Activities at the National Center for Educational Statistics." White Paper, NCES Washington, DC, 1994.
6. Baker, D. "The Size and Structure of Secondary Education in Developing Countries." Paper prepared for Population and Human Resources Dept., Education and Employment Division, The World Bank, Washington, DC: March 1993.

5. Schaub, M. and Baker, D. *Serving American Catholic Children and Youth: A Diocesan Study of PREP and Catholic School Enrollments and Unserved Children.* Report for U.S. Catholic Conference, Department of Education, 1993.
4. Baker, D. "Indicators of School Achievement from SIMS for OECD Countries." Commissioned paper OECD Indicators Panel, National Center for Education Statistics, U.S. Department of Education, Washington, DC, January 1992.
3. Stevenson, D. and Baker, D. "Shadow Education and Allocation in Formal Schooling." U.S. Department of Education, Office of Evaluation, Research and Improvement Research Paper Series, 1990.
2. Baker, D. *Admitted Applicants Survey, 1982, Report 1,* Office of the Dean of Academic Services, The Johns Hopkins University, 1982.
1. Baker, D. and McPartland, J. *Using Longitudinal Test Score Data to Identify Exceptional Learning Environments.* (Report No. 317) Baltimore, MD: Johns Hopkins University, Center for Social Organization of Schools, October 1981.

Book Reviews (in)

International Review of Education
Contemporary Sociology
International Migration Review
American Journal of Sociology
Curriculum Studies

ADMINISTRATIVE APPOINTMENTS

Director of Graduate Studies, Department of Education Policy Studies 2012-14
 Associate Director of the Social Science Research Institute, The Pennsylvania State University 2002-05
 Interim Director of the Institute for Policy Research and Evaluation, The Pennsylvania State University 2001-02
 Professor-in-Charge, Comparative International Education Dual Degree 2006-07, 2011-14
 Professor-in-Charge, Education Theory and Policy Program, College of Education, Pennsylvania State University 1997-2000
 Senior Research Scientist (part-time), American Institutes for Research, Washington, DC 1994-97
 Director of Research and Evaluation Unit, Passaic-Clifton Community Mental Health Center, Passaic NJ 1978

OTHER PROFESSIONAL ACTIVITIES

Editorial Board, *Social Neuroscience*.
 Editorial Board, *American Journal of Education* 2010 to present.

International Board of Advisors, Sociedad Peruana de Investigación Educativa, Peruvian Education Research Association 2009.

Board Member, *Annual Review of Comparative and International Education* Advisory Board 2010-present.

NSF Highlights, Executive Committee of the North American Association for Environmental Educators on policy messages for American environmental educators

Series Editor, *International Perspectives on Education and Society* *Annual Review of Comparative Research on Education*. Oxford, UK: Elsevier Science Ltd. (2004-2008)

Editorial Board, *Review of Research in Education*, American Education Research Association/Sage Publications, 2006-present.

Technical Expert Design Group, OECD, Cross-national Survey of Teachers and Learning and Instruction (TALIS) 2004-06

Technical Expert Design Group, Organization for Economic Co-operation and Development (OECD), PISA 2004

Series Senior Editor, *International Perspectives on Education and Society*. Oxford, UK: Elsevier Science Ltd.

Senior Associate Editor, *American Journal of Education* 2005-present.

Board Member, Comparative International Education Society, 2004-2007, 2010-2014.

Chair, Sociology of Education Section, American Sociological Association, 2000-2001.

Senior Advisor to U.S. Board on International Comparative Studies in Education, National Research Council, Trends in International Mathematics and Science Study (TIMSS) 1998.

Advisor, National Research Council/National Academy of Sciences, Board on Testing and Assessment, National Academies' Center 1997.

Technical Design Group, National Longitudinal Survey of Schools for Evaluation of New Provisions in Title I, U.S. Department of Education, 1997

Editorial Board for *Teachers College Record*, 1995-2001.

Consultant for The World Bank on worldwide secondary education development. (various projects, 1988-1995)

Consultant to Chilean Government on secondary education quality and funding, 1994.

Senior Advisor to "Asia Regional Secondary Education Seminar" Japan International Cooperation Agency and The World Bank, Tokyo, 1993.

IEA Third International Mathematics and Science Study, NCES, U.S. Dept. of Education. 1991-1994, Consultant.

Design Team for Developing an International Education Statistical Unit for the National Center for Education Statistics, U.S. Department of Education, 1993.

AWARDED RESEARCH GRANTS, CONTRACTS

Co-I Heterogeneous Effects of Education on Alzheimers Disease and Related Dementia among Demographic Groups: A Multigenerational and Multilevel Study," National Institute on Aging, Federal Agencies (\$1,811,250) 2023-2025.

- Co-PI The Educational and Cognitive Transformation of Social Opportunity and Inequality. *The Spencer Foundation* (\$50,000) 2015.
- PD/PI Science Productivity, Higher Education Development and the Knowledge Society: China, Germany, Japan, Korea, Taiwan, Qatar and the U.S. Qatar National Research Foundation (\$610,000) 2012-14.
- PD/Co-PI Explaining the Education Effect and the Demography of Risk: Comparing Unschooled and Schooled on Everyday Reasoning and Decision-making Skills about Health Behavior in Peru. *National Science Foundation-Human Dynamics-Risk/Decision-making* (\$700,000) 2008-12.
- PD/Co-PI The Increasing Cognitive Demand of the American Mathematics Curriculum, 1890-2000, *The Spencer Foundation* (\$390,000), 2004-07
- PD/PD Analysis of the First TALIS (Thirty-Nation Teaching, Learning, and Instruction Study): Principals, School Management, and Instruction Leadership. Contract with *OECD*, Paris (\$50,000).
- PD/PI A Sixty-Nation Study of 15 Year-Olds' Environmental Scientific Literacy and Attitudes towards the Environment: Proposal for an In-depth Thematic Analysis of PISA 2006. *National Science Foundation*: Small Research Grant (\$100,000) 2008, in conjunction with *OECD* Paris Fr.
- Co-PI An Assessment of the Cognitive Demand of the American Reading Curriculum, 1890-2006. *The Spencer Foundation* (\$430,000), 2008-2010.
- Co-PD/PI Augmentation, Analysis, and Dissemination of TIMSS. *National Science Foundation*- Conjoint Proposal with and *FIE, U.S. Department of Education* (\$1,800,000), 1998-2000.
- PI The Future of American Catholic Schools. *Lilly Endowment Foundation* (\$500,000), 1995-1998.
- PI Mapping Catholic Organizational Data and Federal Census Information. *Lilly Endowment Foundation* (\$150,000), 1991.
- Co-PI Cross-National Differences in Educational Outcomes. *National Science Foundation* (\$180,000), 1989-1990.
- PI Immigration and Catholic Schooling, 1870-1930. *National Science Foundation* (\$100,000) 1988-1989.
- PI Job Satisfaction Among America's K-12 Teachers. *National Center for Educational Statistics, U.S. Department of Education* (\$230,000), 1997.

- PI Feasibility Study of Longitudinal Study of School Organization. *National Center for Educational Statistics, U.S. Department of Education* (\$180,000), 1996-1997.
- PI Comparing Organizational Qualities of American Public and Private Secondary Schools. *National Center for Educational Statistics, U.S. Department of Education* (\$150,000), 1996.