

CURRICULUM VITAE OF JULIAN BETTS

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Year of Birth 1961
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1. WORK EXPERIENCE

2001-present Professor, Dept. of Economics, University of California, San Diego.
July 2008-June 2011 Chair, Dept. of Economics, University of California, San Diego.
1998-present Adjunct Fellow, Public Policy Institute of California, (San Francisco, California). (Visiting Fellow, 1998, Senior Fellow 1999-2007, Bren Fellow, 2009-2010 and 2011-2013).
2007-present Research Associate, National Bureau of Economic Research.
2010-present Executive Director, The San Diego Education Research Alliance at UCSD (sander.ucsd.edu).
2011-2018 Senior Research Affiliate, Center on Reinventing Public Education (CRPE) at the University of Washington.
2010-2016 UCSD Campus Director, the University of California Educational Evaluation Center.
1997-present Affiliated Faculty, Graduate School of International Relations and Pacific Studies, University of California, San Diego.
1997-2001 Associate Professor, Dept. of Economics, University of California, San Diego.
1990-1997 Assistant Professor, Dept. of Economics, University of California, San Diego.
1987-1990 Research assistant, Dept. of Economics, Queen's University.

2. UNIVERSITY DEGREES

1986-1990 Ph.D in economics at Queen's University, Kingston, Ontario.
(Queen's) **Thesis title:** Technological Change and the Labour Market:
Explorations in the Theory of Human Capital
Fields of specialization: Econometrics, Labor Economics and

1984-1986 (Oxford)	Technological Change. M.Phil. degree in Economics at the University of Oxford.
1979-1984 (McGill)	B.Sc. (Honours) in Chemistry at McGill University, Montreal, Quebec.

3. RESEARCH INTERESTS

Economics of Education, Labor Economics, Applied Econometrics, and Applied Microeconomics.

4a. PUBLICATIONS

- (2021) Betts Julian R. “US Charter Schools as a Test of the Theory of School Choice,” in Neumark, D., Kim, Y.-S., and Lee, S.-H. (Eds.), **Human Capital Policy: Reducing Inequality , Boosting Mobility and Productivity**, Northampton, MA: Edward Elgar Publishing.
- (2019) Betts, Julian, Hill, Laura, Bachofer, Karen, Hayes, Joseph, Lee, Andrew, and Zau, Andrew C. **English Learner Trajectories and Reclassification**, San Francisco, CA: Public Policy Institute of California.
- (2019) Betts, Julian R. and Chenzi Cao. “Magnet School Outcomes”, in Mark Berends, Ann Primus and Matthew G. Springer (Eds.), **Handbook of Research on School Choice, 2nd Edition**, Routledge.
- (2019) Betts, Julian R. and Y. Emily Tang. “A Meta-Analysis of the Effect of Charter Schools on Student Achievement”, in Berends, Mark, R. Joseph Waddington and John Schoenig (Eds.), **School Choice at the Crossroads: Research Perspectives**, Routledge.
- (2019), Hill, Laura, Betts, Julian, Hopkins, Megan, Lavadenz, Magaly , Bachofer, Karen, Hayes, Joseph, Lee, Andrew, Murillo, Marco A., Vahdani, Tara and Zau, Andrew C.. **Academic Progress for English Learners: The Role of Course Placement and School Language Environment in Los Angeles and San Diego**, San Francisco, CA: Public Policy Institute of California.
- (2017) Betts, Julian R., Hahn, Youjin, and Zau, Andrew C. “Can Testing Improve Student Learning? An Evaluation of the Mathematics Diagnostic Testing Project”. *Journal of Urban Economics*, 100, 54-64.
- (2017) Bachofer, Karen Volz, Peter Bell, Julian R. Betts, Dina Policar, Ronald G. Rode, and Andrew C. Zau, “Case Study: The San Diego Education Research Alliance”, in Larson, Anita M and Owen, Jenni W. (eds.), **Researcher-Policymaker Partnerships: Strategies for Launching and Sustaining Successful Collaborations**, New York: Routledge, pp. 72-99 and (Appendices B and C) pp. 229-239.
- (2016), Betts, Julian R., Mark Dynarski, and Jill Feldman, “**Evaluation of the DC Opportunity Scholarship Program: Features of Schools in DC**”, Washington D.C.: National Center for Education Evaluation and Regional Assistance. Institute of Education Sciences, U.S. Department of Education. Available at <https://ies.ed.gov/pubsearch/pubsinfo.asp?pubid=NCEE20164007>.

- (2016), Dynarski, Mark, Julian R. Betts and Jill Feldman, **Applying to the DC Opportunity Scholarship Program: How Do Parents Rate Their Children’s Current Schools and What Do They Want in New Schools?**, Washington D.C.: National Center for Education Evaluation and Regional Assistance, Institute of Education Sciences, U.S. Department of Education. (NCEE2016-4003). Available at <https://ies.ed.gov/pubsearch/pubsinfo.asp?pubid=NCEE20164003>.
- (2016), Betts, Julian R., Sam M. Young, Andrew C. Zau, and Karen Volz Bachofer, **College Prep for All: Will San Diego Students Meet Challenging New Graduation Requirements?**, San Francisco, CA: Public Policy Institute of California.
- (2015), Betts, Julian R., Sam M. Young, Andrew C. Zau, and Karen Volz Bachofer, **The “College Prep for All” Mandate in San Diego: An Examination of New Graduation Requirements in the Context Of San Diego: Part I**, San Diego Education Research Alliance at UCSD, available at sander.ucsds.edu.
- (2015), Betts, Julian, Sami Kitmitto, Jesse Levin, Johannes Bos and Marian Eaton, **What Happens When Schools Become Magnet Schools? A Longitudinal Study of Diversity and Achievement**, Washington, D.C.: American Institutes for Research. Available at <http://www.air.org/sites/default/files/downloads/report/Magnet-Schools-Diversity-and-Achievement-May-2015-rev.pdf>
- (2014), Feldman, Jill, Juanita Lucas-McLean, Babette Gutmann, Mark Dynarski, Julian Betts. **Evaluation of the DC Opportunity Scholarship Program: An Early Look at Applicants and Participating Schools Under the SOAR Act**. NCEE 2015-4000. Washington D.C.: National Center for Education Evaluation and Regional Assistance, Institute of Education Sciences, U.S. Department of Education. Available at <http://ies.ed.gov/pubsearch/pubsinfo.asp?pubid=NCEE20154000>.
- (2014), Betts, Julian R. and Y. Emily Tang, “A Meta-Analysis of the Literature on the Effect of Charter Schools on Student Achievement,” Bothell, WA: Center on Reinventing Public Education. Available at http://www.crpe.org/sites/default/files/CRPE_meta-analysis_charter-schools-effect-student-achievement_workingpaper.pdf.
- (2014), Hill, Laura E., Julian R. Betts, Belen Chavez, Andrew C. Zau, and Karen Volz Bachofer with research support from Joseph M. Hayes. **“Pathways to Fluency: Examining the Link between Language Reclassification Policies and Student Success,”** San Francisco, CA: Public Policy Institute of California.
- (2013), Betts, Julian, Christopher Ferrall and Ross Finnie. “The Role of University Characteristics in Determining Post-Graduation Outcomes: Panel Evidence from Three Canadian Cohorts,” *Canadian Public Policy*, **39**(1), May, pages 81-106.
- (2013), Betts, Julian R. Andrew C. Zau, and Karen Volz Bachofer. **“College Readiness as a Graduation Requirement: An Assessment of San Diego’s Challenges,”** San Francisco, CA: Public Policy Institute of California.
- (2012), Betts, Julian R. Andrew C. Zau, Yendrick Zieleniak and Karen Volz Bachofer. **“Passing the California High School Exit Exam: Have Recent Policies Improved Student Performance?,”** San Francisco, CA: Public Policy Institute of California.
- (2012), Betts, Julian R. and Richard C. Atkinson. “Better Research Needed on the Impact of Charter Schools,” *Science*, January 13: Volume 335 no. 6065 pp. 171-172.

- (2012), Bachofer, Karen Volz, Andrew C. Zau, and Julian R. Betts. “The Impact of the Use of the Mathematics Diagnostic Testing Project in San Diego Unified School District: Teacher Survey Component,” Long Beach, CA: California Academic Partnership Program, available at http://www.calstate.edu/CAPP/projects/docs/Rpt-MDTP_Survey-06012012-acc.pdf.
- (2011), Betts, Julian R. and Y. Emily Tang. “**The Effect of Charter Schools on Student Achievement: A Meta-Analysis of the Literature**,” Bothell, WA: National Charter School Research Project, Center on Reinventing Public Education, available at <http://www.crpe.org/publications/effect-charter-schools-student-achievement-meta-analysis-literature>.
- (2011), Betts, Julian R., Youjin Hahn and Andrew C. Zau. **Does Diagnostic Math Testing Improve Student Learning?** San Francisco: Public Policy Institute of California.
- (2011), Betts, Julian R., “The Economics of Tracking in Education”, in Hanushek, Eric A., Stephen Machin and Ludger Woessmann (Eds.), **Handbook of the Economics Of Education**, Volume 3, Amsterdam: North Holland, pp. 341-381.
- (2011), Koedel, Cory and Julian R. Betts, “Does Student Sorting Invalidate Value-Added Models of Teacher Effectiveness? An Extended Analysis of the Rothstein Critique”, *Education Finance and Policy*, (6:1), 18–42.
- (2010), Betts, Julian, Andrew C. Zau and Cory Koedel, **Lessons in Reading Reform: Finding What Works**, San Francisco: Public Policy Institute of California.
- (2010), Betts, Julian R, “School Quality and Earnings”, in Peterson, Penelope, Eva Baker, Barry McGaw, (Eds.), **International Encyclopedia of Education**, Volume 2, pp. pp. 313-320. Oxford: Elsevier.
- (2010), Koedel, Cory and Julian R. Betts, “Value-Added to What? How a Ceiling in the Testing Instrument Influences Value-Added Estimation”, *Education Finance and Policy*, (5:1), 54-81.
- (2010), Julian R. Betts and Paul T. Hill (Eds.), **Taking Measure of Charter Schools: Better Assessments, Better Policymaking, Better Schools**, Lanham, MD: Rowman & Littlefield Publishers, Inc.
- (2010), Julian R. Betts and Paul T. Hill, “Through a Glass Darkly: An Introduction to Issues in Measuring the Quality of Charter Schools”, Chapter 1 in Paul T. Hill and Julian R. Betts (Eds.), **Taking Measure of Charter Schools: Better Assessments, Better Policymaking, Better Schools**, Lanham, MD: Rowman & Littlefield Publishers, Inc.
- (2010), Julian R. Betts, “The Effect of Attending Charter Schools on Achievement, Educational Attainment and Behavioral Outcomes: A Review”, Chapter 4 in Paul T. Hill and Julian R. Betts (Eds.), **Taking Measure of Charter Schools: Better Assessments, Better Policymaking, Better Schools**, Lanham, MD: Rowman & Littlefield Publishers, Inc.
- (2010), Julian R. Betts, Y. Emily Tang, and Andrew C. Zau, “Madness in the Method? A Critical Analysis of Popular Methods of Estimating the Effect of Charter Schools on Student Achievement”, Chapter 2 in Paul T. Hill and Julian R. Betts (Eds.), **Taking Measure of Charter Schools: Better Assessments, Better Policymaking, Better Schools**, Lanham, MD: Rowman & Littlefield Publishers, Inc.

- (2010), Julian R. Betts, “The Selection of Students into Charter Schools: A Critical Issue for Research and Policy”, Chapter 5 in Paul T. Hill and Julian R. Betts (Eds.), **Taking Measure of Charter Schools: Better Assessments, Better Policymaking, Better Schools**, Lanham, MD: Rowman & Littlefield Publishers, Inc.
- (2010), Julian R. Betts and Paul T. Hill, “Conclusions about Charter School Policy and Research”, Chapter 11 in Paul T. Hill and Julian R. Betts (Eds.), **Taking Measure of Charter Schools: Better Assessments, Better Policymaking, Better Schools**, Lanham, MD: Rowman & Littlefield Publishers, Inc.
- (2009), Betts, Julian R., “The Competitive Effects of Charter Schools on Traditional Public Schools”, Chapter 11 in **Handbook of Research on School Choice**, Mark Berends, Matthew G. Springer, Dale Ballou, and Herbert Walberg (Eds.), New York: Routledge, pp. 195-208.
- (2009), Cory Koedel, Julian R. Betts, Lorien A. Rice, and Andrew C. Zau, “The Integrating and Segregating Effects of School Choice”, *Peabody Journal of Education*, (84:2), pp. 110-129.
- (2009), Philip Babcock and Julian R. Betts, “Reduced-Class Distinctions: Effort, Ability, and the Education Production Function”, *Journal of Urban Economics* (65), pp. 314-322.
- (2009), Julian R. Betts, “The San Diego Blueprint for Student Success: A Retrospective Overview and Commentary”, *Journal of Education for Students Placed at Risk*, (14:1), pp. 120-129.
- (2008), Julian R. Betts and Y. Emily Tang, **Value-Added and Experimental Studies of the Effect of Charter Schools on Student Achievement: A Literature Review**, Bothell, WA: National Charter School Research Project, Center on Reinventing Public Education, available at http://www.crpe.org/sites/default/files/pub_ncsrp_bettstang_dec08_0.pdf.
- (2008), Julian R. Betts and Y. Emily Tang, “Charter Schools and Student Achievement: A Review of the Evidence”, in Robin J. Lake, (Ed.), **Hopes, Fears and Reality: A Balanced Look at Charter Schools in 2008**, Bothell, WA: National Charter School Research Project, Center on Reinventing Public Education, pp. 1-8, available at <http://www.crpe.org/publications/ch-1-charter-schools-and-student-achievement-review-evidence-hfr-08>.
- (2008), Zau, Andrew C., Julian R. Betts, **Predicting Success, Preventing Failure: An Investigation of the California High School Exit Exam**, San Francisco: Public Policy Institute of California.
- (2007), Julian R. Betts, “California: Does the Golden State Deserve A Gold Star?”, Chapter 3 in Frederick M. Hess and Chester E. Finn Jr. (Eds.) **No Remedy Left Behind: Lessons from a Half-Decade of NCLB**, Washington, D.C.: AEI Press, pp. 121-152.
- (2007), Julian R. Betts and John E. Roemer, “Equalizing Opportunity for Racial and Socioeconomic Groups in the United States Through Educational Finance Reform,” in Ludger Woessmann and Paul E. Peterson (Eds.) **Schools and the Equal Opportunity Problem**, Cambridge, MA: MIT Press.
- (2006), Paul T. Hill and Julian Betts, “Improving State and Local Assessments of Charter School Performance” Chapter 4 in Robin J. Lake and Paul T. Hill (Eds.) **Hopes, Fears, & Reality: A Balanced Look at American Charter Schools in 2006**, The National Charter School Research Project, Center on Reinventing Public Education, Seattle, WA: University of Washington, pp 37-47. Available

at <http://www.crpe.org/publications/ch-4-improving-state-and-local-assessments-charter-school-performance-hfr-06>.

- (2006), The Charter School Achievement Consensus Panel (Principal Drafters Paul T. Hill and Julian Betts), **Key Issues in Studying Charter Schools and Achievement: A Review and Suggestions for National Guidelines**, Seattle, WA: The Centre on Reinventing Public Schools, University of Washington. Downloadable from: <http://www.crpe.org/publications/key-issues-studying-charter-schools-and-achievement-review-and-suggestions-national>
- (2006), Julian R. Betts, Lorien A. Rice, Andrew C. Zau, Y. Emily Tang, and Cory R. Koedel, **Does School Choice Work? Effects on Student Integration and Achievement**, San Francisco: Public Policy Institute of California. Available at <http://www.ppic.org/publication/does-school-choice-work-effects-on-student-integration-and-achievement/>.
- (2005), Julian R. Betts, Andrew Zau and Kevin King, **From Blueprint to Reality: San Diego's Education Reforms**, San Francisco: Public Policy Institute of California.
- (2005), Julian R. Betts and Tom Loveless, "School Choice, Equity, and Efficiency," Chapter 1 in Julian R. Betts and Tom Loveless (Eds.) **Getting Choice Right: Ensuring Equity and Efficiency in Education Policy**, Washington, D.C.: Brookings Institution Press, pp. 1-13.
- (2005), Julian R. Betts, "The Economic Theory of School Choice," Chapter 2 in Julian R. Betts and Tom Loveless (Eds.) **Getting Choice Right: Ensuring Equity and Efficiency in Education Policy**, Washington, D.C.: Brookings Institution Press, pp. 14-39.
- (2005), Julian R. Betts, Dan Goldhaber, and Larry Rosenstock, "The Supply Side of School Choice," Chapter 4 in Julian R. Betts and Tom Loveless (Eds.) **Getting Choice Right: Ensuring Equity and Efficiency in Education Policy**, Washington, D.C.: Brookings Institution Press, pp. 61-84.
- (2005), Julian R. Betts, "The Promise and Challenge of Accountability in Public Schooling," in Frederick M. Hess (Ed.) **Urban School Reform: Lessons from San Diego**, Cambridge, MA: Harvard Education Press, pp. 157-176.
- (2005), Andrew Zau and Julian R. Betts, "The Evolution of School Choice," in Frederick M. Hess (Ed.) **Urban School Reform: Lessons from San Diego**, Cambridge, MA: Harvard Education Press, pp. 223-241.
- (2005), Julian R. Betts and Carolyn W.B. Lee, "Universities as Drivers of Regional and National Innovation: An Assessment of the Linkages from Universities to Innovation and Economic Growth", in Charles M. Beach, Robin W. Boadway and R. Marvin McInnis (Eds.) **Higher Education in Canada**, Kingston, Ontario: Queen's University: John Deutsch Institute, pp. 113-157.
- (2004), Julian R. Betts and Anne Danenberg, "San Diego: Do Too Many Cooks Spoil the Broth?", in Frederick Hess and Chester Finn (Eds.), **Leaving No Child Behind? Options for Kids in Failing Schools**, New York: Palgrave MacMillan, pp. 213-238.
- (2004), Heather Rose and Julian R. Betts, "The Effect of High School Courses on Earnings", *Review of Economics and Statistics*, (86:2), May, pp. 497-513.

- (2003), Julian R. Betts and Anne Danenberg, “The Effects of Accountability in California,” in Paul E. Peterson and Martin R. West, eds. **No Child Left Behind? The Politics and Practice of Accountability**, Washington, D.C.: Brookings Institution, pp. 197-212.
- (2003), Julian R. Betts, Andrew Zau and Lorien Rice, **Determinants of Student Achievement: New Evidence from San Diego**, San Francisco: Public Policy Institute of California.
- (2003), Julian R. Betts, “Discussion: Do State Governments Matter?,” in Yoland K. Kodrzycki, ed., **Education in the 21st Century: Meeting the Challenges of a Changing World**, Boston: Federal Reserve Bank of Boston.
- (2003), Julian R. Betts and Robert W. Fairlie, “Does Immigration Induce ‘Native Flight’ from Public Schools into Private Schools?,” *Journal of Public Economics*, (87:5-6), May, pp. 987-1012.
- (2003), Julian R. Betts and Jeff Grogger, “The Impact of Grading Standards on Student Achievement, Educational Attainment, and Entry-Level Earnings”, *Economics of Education Review*, (22:4), August, pp. 343-352.
- (2002), Julian R. Betts and Anne Danenberg, “School Accountability in California: An Early Evaluation”, in Diane Ravitch (Ed.), **Brookings Papers on Education Policy 2002**, (Washington, D.C.: The Brookings Institution), pp. 123-197.
- (2002), Julian R. Betts, **Critical Path Analysis of California’s S&T System: California’s K-12 Sector**, Irvine: California Council on Science and Technology.
- (2001), Julian R. Betts and Robert W. Fairlie, “Explaining Ethnic, Racial, and Immigrant Differences in Private School Attendance”, *Journal of Urban Economics*, (50:1), 26-51.
- (2001), Julian R. Betts, Cameron W. Odgers and Michael K. Wilson, “The Effects of Unions on Research and Development: An Empirical Analysis Using Multi-Year Data”, *Canadian Journal of Economics*, (34:3), pp. 785-806.
- (2001), Heather Rose and Julian R. Betts, **Math Matters: The Links between High School Curriculum, College Graduation, and Earnings**, San Francisco: Public Policy Institute of California.
- (2001), Julian R. Betts and Anne Danenberg, “Resources and Student Achievement: An Assessment”, in Jon Sonstelie and Peter Richardson, (Eds.), **School Finance and California’s Master Plan for Education**, San Francisco: Public Policy Institute of California, pp. 47-79.
- (2001), Julian R. Betts and Robert M. Costrell, “Incentives and Equity under Standards Based Reform”, in Diane Ravitch (Ed.), **Brookings Papers on Education Policy 2001**, (Washington, D.C.: The Brookings Institution), pp. 9-74.
- (2001), “The Impact of School Resources on Women’s Earnings and Educational Attainment: Findings from the National Longitudinal Survey of Young Women”, *Journal of Labor Economics*, (19:3), pp. 635-657.
- (2000), Julian R. Betts, **The Changing Role of Education in California**, San Francisco: Public Policy Institute of California.

- (2000), Julian R. Betts, Kim S. Rueben and Anne Danenberg, **Equal Resources, Equal Outcomes? The Distribution of School Resources and Student Achievement in California**, San Francisco: Public Policy Institute of California.
- (2000), Julian R. Betts and Magnus Lofstrom, “The Educational Attainment of Immigrants: Trends and Implications”, in George Borjas (Ed.), **Issues in the Economics of Immigration**, Chicago: University of Chicago Press for National Bureau of Economic Research, pp. 51-115.
- (2000), Julian R. Betts and Jamie L. Shkolnik, “Key Difficulties in Identifying the Effects of Ability Grouping on Student Achievement”, *Economics of Education Review*, (19:1), pp. 21-26.
- (2000), Julian R. Betts and Jamie L. Shkolnik, “The Effects of Ability Grouping on Student Math Achievement and Resource Allocation in Secondary Schools”, *Economics of Education Review*, (19:1), pp. 1-15.
- (1999), Julian R. Betts and Jamie L. Shkolnik, “The Behavioral Effects of Variations in Class Size: The Case of Math Teachers”, *Educational Evaluation and Policy Analysis*, Summer, (20:2), pp. 193-213.
- (1999), Julian R. Betts and Darlene Morell, “The Determinants of Undergraduate Grade Point Average: The Relative Importance of Family Background, High School Resources, and Peer Group Effects”, *Journal of Human Resources*, (34:2), pp. 268-293.
- (1998), **The Implications of Technological Change for Human Resource Policy**, *Canada in the 21st Century. II. Resources and Technology series*, Ottawa, Ontario: Industry Canada.
- (1998), “Educational Crowding Out: Do Immigrants Affect the Educational Attainment of American Minorities?”, in Daniel S. Hamermesh and Frank D. Bean (Eds.), **Help or Hindrance? The Economic Implications of Immigration for African-Americans**, New York: Russell Sage Foundation, pp. 253-281.
- (1998), “The Impact of Educational Standards on the Level and Distribution of Earnings”, *American Economic Review*, (88:1), pp. 266-275.
- (1998), “The Two-Legged Stool: The Neglected Role of Educational Standards in Improving America’s Public Schools”, *Economic Policy Review*, (4:1), pp. 97-116.
- (1997), Cameron Odgers and Julian R. Betts, “Do Unions Reduce Investment? Evidence from Canada”, *Industrial and Labor Relations Review*, (51:1), pp. 18-36.
- (1997), Julian R. Betts and Christopher Ferrall, “Policies for Improving Public Schools”, *Policy Options*, (18:6), pp. 35-39.
- (1997), "The Skill Bias of Technological Change in Canadian Manufacturing Industries", *Review of Economics and Statistics*, (79:1), pp. 146-150.
- (1996), “Do School Resources Matter Only for Older Workers?”, *Review of Economics and Statistics* (78:4), pp. 638-652.

- (1996), "Is There a Link between School Inputs and Earnings? Fresh Scrutiny of an Old Literature", in Gary Burtless (Ed.), **Does Money Matter? The Effect of School Resources on Student Achievement and Adult Success**, Washington, D.C.: Brookings Institution, pp. 141-191.
- (1996), "What do Students Know about Wages? Evidence from a Survey of Undergraduates", *Journal of Human Resources*, (31:1), pp. 27-56.
- (1995), "Does School Quality Matter? Evidence from the National Longitudinal Survey of Youth", *Review of Economics and Statistics*, (77:2), pp. 231-250.
- (1995), (with Laurel McFarland) "Safe Port in a Storm: The Impact of Labor Market Conditions on Community College Enrollments", *Journal of Human Resources*, (30:4), pp. 741-765.
- (1994), "Technological Change, Sectoral Shifts and the Distribution of Earnings: A Human Capital Model", *Economica*, (61:244), pp. 475-492.
- (1993), (jointly with Thomas H. McCurdy) "Sources of Employment Growth by Occupation and Industry in Canada: A Comparison of Structural Changes in the 1960's and 1970's", *Relations Industrielles/Industrial Relations*, (48:2), pp. 285-304.
- (1989), "Two Exact, Non-Arbitrary and General Methods of Decomposing Temporal Change", *Economics Letters*, (30), pp. 151-156.
- (1984), "Technology and the Third World: a Review of the Central Issues", in Mary Thornton and Jane Willms, (Eds.), **Science, Knowledge and Power**, Ottawa: CSP Publications.
- (1982), "The Protection of Privacy in a Computerized Society: the Case for Regulation", in Fraser Homer-Dixon and Anne Perkins, (Eds.), **Science in Society: its Freedom and Regulation**, Ottawa: CSP Publications.

4b. BOOK REVIEWS

- (1999), Review of Becker, William E. and William J. Baumol, "Assessing Educational Practices: The Contribution of Economics", *Economics of Education Review*, (18:4), pp. 476-477.
- (1998), Review of Hanushek, Eric A. and Dale W. Jorgenson, "Improving America's Schools: The Role of Incentives", *Journal of Economic Literature*, (36:2), pp. 963-964.
- (1997), Review of Arrow, Kenneth J., et al., "Education in a Research University", *Journal of Economic Literature*, (35:3), pp. 1392-1394.
- (1995), Review of Hanushek, Eric A. et al., "Making Schools Work: Improving Performance and Controlling Costs", *Issues in Science and Technology*, (11:3), pp. 85-87.
- (1988), "A Review of Leibenstein, H., Inside the Firm: the Inefficiencies of Hierarchy", *Canadian Journal of Economics*, (21:3), pp. 684-686.

4c. DISCUSSION PAPERS, OTHER PAPERS AND COMMISSIONED REPORTS

- (2012), Karen Volz Bachofer, Andrew C. Zau, and Julian R. Betts. “The Impact of the Use of the Mathematics Diagnostic Testing Project in San Diego Unified School District: Teacher Survey Component,” Long Beach, CA: California Academic Partnership Program, (2012).
- (1999), Jamie L. Shkolnik and Julian R. Betts, “The Effects of Class Size on Teacher Time Allocation and Student Achievement”, Manuscript, Department of Economics, UCSD.
- (1998), Julian R. Betts, Christopher Ferrall and Ross Finnie, “The Transition to Work for Canadian University Graduates: Time to First Job, 1982-1990”, Manuscript, Department of Economics, UCSD.
- (1998), Julian R. Betts and Eric Johnson, “A Test for Diminishing Returns to School Spending”, Manuscript, Department of Economics, UCSD.
- (1997), “Do Grading Standards Affect the Incentive to Learn?”, Discussion Paper 97-22, Department of Economics, UCSD.
- (1996), “The Role of Homework in Improving School Quality”, Discussion Paper 96-16, Department of Economics, UCSD.
- (1995), “Which Types of School Spending are Most Effective? New Evidence on the School Quality Debate”, Discussion Paper 95-03, Department of Economics, UCSD.

5. OTHER PROFESSIONAL ACTIVITIES

- (2021) Member, Expert review panel convened by the Center for Reinventing Public Education at the University of Washington regarding achievement impacts of COVID.
- (2019) Ad Hoc Member, U.S. Department of Education Institute of Education Sciences “Education Systems and Broad Reform” panel that adjudicates proposals to the Education Research Grant and Evaluation of State and Local Education Programs and Policies competitions.
- (2015, 2016, 2017, 2018) Standing Member, U.S. Department of Education Institute of Education Sciences “Partnerships and Collaborations” panel that adjudicates proposals to the Education Research Grant competition.
- (2015 to present) Member, UCSD Advisory Board to the Yankelovich Center for Social Science Research.

- (2014) Member, U.S. Department of Education Institute of Education Sciences review panel for proposals submitted under the “Continuous Improvement Research in Education” competition.
- (2010-2013) Standing Member, U.S. Department of Education Institute of Education Sciences “Education Systems and Broad Reform” panel that adjudicates proposals to the Education Research Grant and Evaluation of State and Local Education Programs and Policies competitions. (Panel chair winter 2012 and winter 2013.)
- (2012) Member, U.S. Department of Education Institute of Education Sciences “Statistics and Modeling” panel that adjudicates proposals to the Education Research Grant and Evaluation of State and Local Education Programs and Policies competitions.
- (2010-present) Executive Director, the San Diego Education Research Alliance at UCSD. (sandra.ucsd.edu)
- (2010-2015) UCSD Campus Director, the University of California Educational Evaluation Center.
- (2011-2012) Member, Technical Advisory Group for the Achievement Growth Over Time initiative launched by the Los Angeles Unified School District.
- (2010-2011), Member, Expert Committee, National Research Council “Highly Successful Schools or Programs For K-12 STEM Education: A Workshop”.
- (2007-2013), Council Member, California Council on Science and Technology, mandated by state legislation to provide the state legislature and governor with policy advice on all issues related to science and technology policy in California.
- (2005-2017) Member, editorial board of *Education Finance and Policy*, published by MIT Press.
- Participated in the Postdoctoral Research Training Program Review Panel, Institute of Education Sciences, U.S. Department of Education, convened in Rockville, MD October 22-23, 2009.
- (2005-2008) One of 15 members appointed to the National Academy of Sciences (National Research Council) “Committee on Evaluation of Teacher Certification by the National Board for Professional Teaching Standards (NBPTS)”.
- (2006-2010) Member of the Technical Working Group for the federally funded project “Impact on Student Achievement of Teacher Professional Development Designed to Enhance Teacher Content Knowledge and Pedagogical Content Knowledge in Math”, conducted by the American Institutes for Research (AIR).
- (2006-2009) Member, the California Collaborative on District Reform, hosted by AIR.

- (2005) Member, review panel for U.S. Department of Education’s Institute of Education Sciences that adjudicated the National Education Research and Development Center grants competition.
- (2004-2007) Member, Technical Review Panel for the federally funded Longitudinal Study of No Child Left Behind and the Study of State Implementation of Accountability and Teacher Quality Provisions under NCLB.
- (2004-2010) Member, the Expert Advisory Panel for the federally funded Impact Evaluation of the D.C. Choice Program.
- (2004-present) Member, Advisory Committee of the National Charter School Research Center at the University of Washington. Also a member of the Center’s Charter School Achievement Consensus Panel.
- (2002) One of 11 members appointed to the National Academy of Sciences (National Research Council) “Committee on Improving Measures of Access to Equal Educational Opportunity”. The Committee advised on ways of improving the Elementary and Secondary School Civil Rights Compliance Report and linking it to other existing surveys.
- (2001-2003) One of 14 members appointed to the National Working Commission on Choice in K-12 Education. The commission was headquartered at the Brookings Institution and funded mainly by the Bill and Melinda Gates Foundation.
- (1999, 2000) One of five members of the national Nominating Committee of the Association for Public Policy Analysis and Management (APPAM), which nominated a new President, Vice President and candidates for APPAM Policy Council for the 2000-2001 and 2001-2002 periods.
- (1998-2008) Member of the Board of Directors of the Preuss School @ UCSD. The Preuss School is a charter school on the UCSD campus that admits disadvantaged students from the local area. The school seeks to prepare these disadvantaged students for success in college by immersing them in an enriched college prep curriculum between grades 6 and 12.
- (1999) Member of national Advisory Board of CREDO (Center for Research on Education Outcomes), Stanford University. CREDO is a national center that seeks to improve the stock of empirical evidence on the impact of school reforms, in part by brokering evaluations between government entities and the research community.
- (2002) Member of the San Diego Achievement Forum, a non-partisan group of education researchers and higher education leaders that aims to provide the public with improved documentation on trends in performance in San Diego City Schools.

6. TESTIMONY

□ “Have Inflows of Immigrants Diminished Natives’ Educational Attainment? A Review”, testimony delivered by Julian Betts to the U.S. House Judiciary Committee, Subcommittee on Immigration and Claims, March 11, 1999.

7. GRANTS AND COMMISSIONS

Unless noted otherwise, Betts is the sole Principal Investigator of the following.

2021-23 Evaluation of SDUSD’s of Standards-Based Grading Policy, subgrant through SDUSD from The William and Flora Hewlett Foundation.

2019-22 A Lottery-Based Evaluation of the Impact of Public School Choice Programs on Short- and Medium-Term Academic and Behavioral Outcomes, Principal Investigator, grant from Institute of Education Sciences, U.S. Department of Education.

2017-20 Heterogeneous Effects of English Learner Reclassification on Achievement Trajectories, Co-Principal Investigator with Laura Hill, PPIC, grant from Institute of Education Sciences, U.S. Department of Education.

2017-2020 The Relation Between School Climate and Student Outcomes in San Diego: Using Research to Tailor Socioemotional Supports in a Large Urban District, Research-Practice Partnership Grant, Spencer Foundation. Principal investigator with co-investigators Ronald Rode, Peter Bell and Dina Policar, Andrew Zau and Karen Bachofer.

2016-2019 Closing the Achievement Gap for Long-Term and Late-Arriving English Learners, W.T Grant Foundation. Co-Principal Investigator with Principal Investigator Laura Hill and Co-Investigators Megan Hopkins, Magaly Lavendenz, Andrew Zau and Karen Bachofer.

2015-2020 Changing the Odds: A Short-Cycle Approach to Improving Students’ Long-Term Mathematics Outcomes, Principal Investigator (with co-PIs Amanda Datnow, Ronald Rode, Peter Bell and Dina Policar, with Karen Bachofer, Andrew Zau, Bruce Arnold and Carol Treglio), Continuous Improvement Research in Education grant, Institute of Education Sciences, U.S. Department of Education.

2014-2015 The “College Prep for All” Mandate – An Examination of New Graduation Requirements in the Context of San Diego, (with Karen Bachofer and Andrew Zau), The Yankelovich Center at UCSD.

2013-2016 Academic Trajectories and Policies to Narrow Achievement Gaps in San Diego, co-Principal Investigator (with co-PIs Ronald Rode, Peter Bell, and Dina Policar, with Karen Bachofer and Andrew Zau), Researcher-Practitioner Partnerships in Education Research grant, Institute of Education Sciences, U.S. Department of Education.

2013-2014 Pathways to Fluency: Identifying Successes among Current and Former English Learners at the Elementary School Level, (with Laura Hill, Hans Johnson, Belen Chavez, Karen Bachofer and Andrew Zau), grant funded by the Public Policy Institute of California.

2012-2016 Evaluation of the D.C. School Choice Program, co-Principal Investigator (with Mark Dynarski), contract to WESTAT Inc.

- 2012-2013 “College Readiness as a Requirement for High School Graduation: An Evaluation of Recent District Initiatives in California,” grant funded by the Public Policy Institute of California.
- 2011-2012 “The Impact of the California High School Exit Examination on Student Outcomes,” grant funded by the Public Policy Institute of California.
- 2009-2010 “The San Diego Blueprint for Student Success: Long-Run Effects,” and “Evaluation of the California Mathematics Diagnostic Testing Project,” grants funded by the Public Policy Institute of California.
- 2007-2012 “Career and Technical Education in San Diego,” contract funded by the U.S. Department of Education, as part of the National Assessment of Career and Technical Education.
- 2008-2012 “An Evaluation of the Mathematics Diagnostic Testing Project Using Evidence from San Diego”, contract funded by The California Academic Partnership Program.
- 2007-2008 “Distant Early Warning: An Investigation into Methods for Predicting, Explaining and Reducing Rates of Student Failure on the California High School Exit Exam”, the William and Flora Hewlett Foundation, via the Public Policy Institute of California.
- 2006-2013 “Evaluation of Conversion Magnet Schools”. Principal Investigator of a multi-year project funded by the U.S. Department of Education. Work is being done in conjunction with the American Institutes for Research and Berkeley Policy Associates.
- 2005-2007 “San Diego’s Blueprint for Student Success at Year Five: An Evaluation of Impact on Student Outcomes”, The Bill and Melinda Gates Foundation and the William and Flora Hewlett Foundation.
- 2003-2005 “Does School Choice Work? The Impact of Public School Choice Programs on Student Achievement”, the Smith Richardson Foundation grant to PPIC and UCSD, with supplementary grants from the Girard Foundation and PPIC.
- 2002-2004 “The Determinants of Reading Achievement in San Diego: A Study of the Impact of the ‘Blueprint for Student Success’”, the Hewlett Foundation and the Atlantic Philanthropies (grant to PPIC with UCSD as subcontractor).
- 2002 “Planning Grant for the Proposal: What Determines Student Achievement? Further Evidence from San Diego”, contract funded by the Public Policy Institute of California.
- 2002 Commissioned by the Program on Education Policy and Governance, Harvard University, to write (with Anne Danenberg) a paper on school standards and accountability in California.
- 2001 Commissioned by the Brookings Institution to write (with Anne Danenberg) a paper on school accountability in California.

- 2000-2001 “A Critical Path Analysis of California's K-12 Sector”, grant funded by the California Council on Science and Technology.
- 2000 Commissioned by the Brookings Institution to write (with Robert Costrell) a paper on equity and efficiency issues related to educational standards.
- 2000-2001 “Student Achievement in San Diego”, grant funded by the Public Policy Institute of California.
- 2000 Commissioned by the Social Sciences Research Council to write a paper on the economics of educational standards.
- 1999-2000 “Equal Resources, Equal Outcomes? The Distribution of School Resources and Student Achievement in California”, (joint with Anne Danenberg and Kim Rueben, Public Policy Institute of California), grant funded by the Public Policy Institute of California.
- 1999-2000 “Has Curriculum Closed the Test Score Gap?”, (joint with Heather Rose, University of California, San Diego), grant funded by the Public Policy Institute of California.
- 1997-1999 “The Impact of Grading Standards on the Early Labor Market Success of American Youth”, (joint with Jeff Grogger, the University of California, Los Angeles), grant funded by the American Educational Research Association, which receives funding from the National Science Foundation and the National Center for Education Statistics.
- 1998 “The Changing Role of Education in California’s Labor Market”, grant funded by the Public Policy Institute of California.
- 1998-2000 “Mending the Leaky Pipeline: The Role of Curriculum in Determining Levels and Variations in Student Achievement”, (joint with Heather Rose, University of California, San Diego), grant funded by the Public Policy Institute of California.
- 1998 Commissioned by the World Bank to write a short paper on the economics of school quality.
- 1997-2001 “The Relative Merits of Different Educational Reforms from the Point of View of Equality of Opportunity”, (joint with John Roemer, the University of California, Davis), grants funded through Berkeley by the John D. and Catherine T. MacArthur Foundation and by the Public Policy Institute of California.
- 1997-1998 “School Quality and the American Labor Force”, grant funded by the W.E. Upjohn Institute for Employment Research.
- 1997-1999 “Immigrants, Natives, and the Choice between Public and Private Schools: Evidence from California”, (joint with Robert Fairlie, the University of California, Santa Cruz), grant funded by the Public Policy Institute of California.
- 1997-98 Commissioned to write a paper for the National Bureau of Economic Research on the subject of immigration and education.

- 1997 Commissioned to write a paper for the Federal Reserve Bank of New York on the subject of educational standards.
- 1996-97 Commissioned to write a paper for the Andrew W. Mellon Foundation as part of a project on the implications of immigration for African-Americans and other racial-ethnic minorities.
- 1996 Commissioned to write a report for Industry Canada on “Technology and Human Resources” as part of a project designed to help Industry Canada develop a vision of emerging policy issues and responses over the next fifteen years.
- 1995-96 “Does High School Spending Contribute to Adult Achievement? Evidence from the National Longitudinal Surveys”, grant funded by the Bureau of Labor Statistics, U.S. Department of Labor, through the Institute for Research on Poverty, University of Wisconsin, Madison.
- 1996-97 “The Role of University Quality in Determining Post-Graduation Outcomes: Panel Evidence from Three Recent Canadian Cohorts”, (joint with Christopher Ferrall, Queen’s University and Ross Finnie, Statistics Canada/Carleton University), grant funded by Statistics Canada.
- 1995-96 “Incentives and Grading Standards: New Evidence on the Determinants of School Quality”, grant funded by the American Educational Research Association, which receives funding from the National Science Foundation and the National Center for Education Statistics.
- 1995-98 “School Quality, Educational Attainment, and Success in the Labour Market”, (joint with Christopher Ferrall, Queen’s University and Ross Finnie, Statistics Canada/Carleton University), Strategic Grant funded by the Social Sciences and Humanities Research Council of Canada.
- 1995-96 “The Determinants of Undergraduate Success: Econometric Models of Student Performance at UCSD”, (joint with Darlene Morell, UCSD), Chancellor’s Associates Grant, UCSD.
- 1994 Commissioned by the Brookings Institution to write a chapter for the book “Does Money Matter? The Effect of School Resources on Student Achievement and Adult Success”.
- 1993 UCSD Chancellor's Summer Faculty Fellowship, granted for work on "The Determinants of School Quality".
- 1991-94 "An Econometric Model of Technological Change, the Sectoral Allocation of Labor and Wage Dispersion", grant from the Social Sciences and Humanities Research Council of Canada.
- 1991-96 UCSD, Committee on Research Grants, 1991-96.

8. AWARDS AND DISTINCTIONS

- 2012 Nominated for Innovator in Education Award presented annually by the San Diego Science Alliance. Awarded Certificate of Excellence as runner-up for the award.
- 2011-2014 Bren Fellowship, Public Policy Institute of California.

- 2009-2010 One of two inaugural holders of the Bren Fellowship, Public Policy Institute of California.
- 2008 “Spirit of Preuss Community Award” for distinguished service to the Preuss School, UCSD.
- 2006 Article with Jeff Grogger “The Impact of Grading Standards on Student Achievement, Educational Attainment, and Entry-Level Earnings” selected for re-publication in Clive R. Belfield (Ed.), **Modern Classics in the Economics of Education**, Northampton, MA: Edward Elgar Publishing, Chapter 29, Volume 2, 2006.
- 1991 Curtis Prize for best doctoral dissertation in Economics, Queen's University.

9. SCHOLARSHIPS

- 1988-90 Ontario Graduate Scholarship, held at Queen's University.
- 1987-1988 Doctoral Scholarship, Social Sciences and Humanities Research Council, held at Queen's University.
- 1986-1987 E.G. Bauman Fellowship, Queen's University.
- 1984-1986 Commonwealth Scholarship, held at Oxford University, England.