Rachel B. Baker

Contact Information	Stanford University Center for Education Policy Analysis 520 Galvez Mall, #407 Stanford, CA 94305	857.488.0350 rbbaker@stanford.edu
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Research Interests	higher education success and persistence, descriptive and causal methods, broad access schools, economics of education, labor market outcomes, educational sorting and equity	
Education	 Stanford University, Stanford, CA Ph.D., Economics of Education & Education Policy, Dissertation Title: Educational Goals and Pathways in Community College Dissertation Committee: Sean Reardon, Eric Bettinger and Tom Dee, Stan University; Michal Kurlaender, University of California at Davis 	
	Stanford University, Stanford, CA M.A., Economics	January, 2014
	Dartmouth College, Hanover, NHB.A., Psychology Summa Cum LaudeN.H. Teaching Certification, grades K-6	June, 2004
	Gallaudet University, Washington, D.C. Hearing Undergraduate Transfer; all courses taught in Ameri	Fall, 2001 Ican Sign Language
Fellowships and Awards	Jack Kent Cooke Foundation Dissertation Fellowship Graduate Public Service Fellowship, Stanford University Institute of Education Sciences Fellowship Kimball Fellowship, Stanford Graduate Fellowships Grace and James S. Parkes 1920 Prize James O. Freedman Presidential Research Scholar	$2014-2015 \\ 2013-2014 \\ 2010-2015 \\ 2010-2015 \\ 2004 \\ 2003$
	PUBLICATIONS and PRESENTATIONS	
Peer Reviewed Journal Articles	 Bettinger, E.P. and Baker, R.B., "The Effects of Student Coaching: An Evaluation of a Randomized Experiment in Student Advising." <i>Educational Evaluation and</i> <i>Policy Analysis</i>, 2013. 	
Publications Under Review		
	 Evans, B.J., Baker, R.B. and Dee, T. "MOOC Persistence- 2014. Submitted to Research in Higher Education. 	- a Descriptive Analysis"
Book Chapters	 Klasik, D.J., Proctor, K. and Baker, R.B "Building Relevant Research on Broad-Access Higher Education" In Stevens, M. and Kirst, M.W. (Eds.), <i>Remaking</i> <i>College: Broad Access Colleges and Universities and the Future of US Higher</i> <i>Education</i>. Stanford, CA: Stanford University Press. 	

Reports and Policy Briefs	 Baker, R.B "Competency Based Education Programs: the students' perspective" 2014. American Enterprise Institute commissioned paper.
	 Baker, R.B. and Gurantz, O. "Early Alerts: Predictors of Student Success" 2014. Prepared for the Foothill-De Anza Community College District.
	3. Reardon, S.F., Baker, R.B. , and Klasik, D.J. "Unequal Access: Race, Income and Enrollment Patterns in Highly Selective Colleges, 1982-2004" Center for Education Policy Analysis Report.
Papers in Preparation	1. Baker, R.B. "Responses to Increased Structure in Community Colleges."
	2. Baker, R.B. "Evidence for a Multi-Stage Decision Making Model of Major Choice."
	3. Baker, R.B. "Student Goal Uncertainty and Framed Choices in Community Colleges."
	 Reardon, S.F., Baker, R.B., Kasman, M., Klasik, D.J. and Townsend, J.B. "Workable Alternatives? Simulated Models of Race- and Socioeconomic-Based Affirmative Action Policies" 2014.
	 Baker, R.B., Dee, T. and Evans, B.J. "Precommitment and Persistence in a Massive Open Online Course" 2014.
CONFERENCE PRESENTATIONS	1. Baker, R.B. Structured Transfer Pathways in Community Colleges. Paper presented at Society for Research on Educational Effectiveness Fall Meeting, Washington, D.C., September, 2014.
	 Baker, R.B. and LaManque, A. Institutional Research in Community Colleges. Project presented at Research and Planning Conference for California Community Colleges, Pomona, CA, April, 2014.
	3. Baker, R.B. and Klasik, D. Race, income and the stratification of college enrollment patterns, 1980-2010. Paper presented at American Education Research Association Annual Meeting, Philadelphia, April, 2014.
	 Baker, R.B. and Evans, B.J. Persistence Patterns in MOOCs: Course-, Lecture- and Student-level Predictors. Paper presented at American Education Research Association Annual Meeting, Philadelphia, April, 2014.
	 Reardon, S.F., Baker, R.B., Kasman, M., Klasik, D. and Townsend, J.B. "Workable Alternatives? Simulated Models of Race- and Socioeconomic-Based Affirmative Action Policies" Paper presented at AEFP Conference, San Antonio, March, 2014.
	 Dee, T., Evans, B.J. and Baker, R.B. Describing Persistence in MOOCs. ASHE conference in St. Louis, MO in November, 2013.
	 Baker, R.B. and Klasik, D. Online Coursetaking at Foothill-DeAnza. Project presented to senior administrators at Foothill DeAnza Community College District. Los Altos, CA, July, 2013.
	 Reardon, S., Kasman, M., Klasik, D. and Baker, R.B Agent Based Simulation Models of the College Sorting Process. Paper presented at AEFP Conference, New Orleans, LA, March, 2013.
	 Baker, R.B., Klasik, D. and Reardon, S. Race and College Enrollment Over Time. Paper presented at SEA conference, Monterey, CA, February 2013.

- Bettinger, E., and Baker, R.B.. The Effects of College Coaching: Evidence from a Randomized Experiment in Student Mentoring. Paper presented at APPAM/INVALSI Conference, Rome, Italy, October 2012.
- 11. Bettinger, E. and **Baker**, **R.B.** Research-based Strategies for Supporting Students from Matriculation Through Graduation. Workshop given at National Partnership for Educational Access annual conference, Chicago, IL. April, 2012.
- Scott, D., Proctor, K. and Baker, R.B.. The Role of Broad Access Colleges in the Silicon Valley Economy. Project presented at Mapping Broad-Access Higher Education conference, Palo Alto, CA, December 2011.
- 13. Bettinger, E., and **Baker, R.B.**. The Effects of College Coaching: Evidence from a Randomized Experiment in Student Mentoring. Paper presented at APPAM conference, Washington, D.C., November 2011.
- 14. Bettinger, E., and **Baker, R.B.**. The Effects of College Coaching: Evidence from a Randomized Experiment in Student Mentoring. Roundtable presentation at ASHE conference, Charlotte, NC, November 2011.

EXPERIENCE

RESEARCH	MOOC Field Experiments, Stanford University October 2012 to present Co-Investigator with Tom Dee and Brent Evans
Experience	Conducted an experiment attempting to increase persistence in online courses using principles of behavioral economics; Designed a field experiment to examine biases and discrimination within MOOC discussion fora; Designed an audit study to examine effects of MOOC participation on labor market outcomes; Managed undergraduate research assistants
	Student Engagement Study, Foothill-De Anza CCApril 2013 to presentConsultantUsing administrative and unique survey data, advise community college district on predictors of student success and student perceptions of equity. Designed study and communicated findings to community college faculty and administrators.
	College Program Decisions, Foothill-De Anza CCMay 2013 to presentCo-Investigator with Eric Bettinger, Brian Jacob and Ioana MarinescuStudy how community college students select majors based on perceived costs andlabor market returns; Designed and administered survey; Lead analytical design.
	Online Courses in Community Colleges, FHDAFebruary 2013 to presentCo-Investigator with Mitchell Stevens and Daniel KlasikFebruary 2013 to presentStudy patterns of persistence in online courses at community colleges using enrollmentrecords. Use quasi-experimental methods to answer causal questions about the effectof online classes on persistence.Output
	Simulations of College Sorting, Stanford University May 2012 to present Research Assistant, PI: Sean Reardon Created dynamic Agent Based Model program using Stata to simulate student application and admission to four-year colleges. Adjusted the base model to study the effects of socio-economic status and the effects of race- and class-based affirmative action on system-wide college sorting.

	Enrollment Patterns in Selective Colleges, Stanford University 2012-2014 Research Assistant, PI: Sean Reardon Used novel nonparametric achievement-gap estimation technique to study gaps in college attendance by race and socioeconomic status.	
	RtI and Disability Identification, Stanford University2013Research Assistant, PI: Tom DeeCollected data on state implementation of Response to Intervention policies to determine if the policies had an effect on the rates of identification of learning disabilities (using a difference-in-difference-in-difference strategy).	
	Broad-Access Colleges in Silicon Valley, Stanford University 2010-2011 Research Assistant, PIs: Mitchell Stevens and Mike Kirst Collected data on the ecology of colleges in the Silicon Valley. Focused on ways in which broad access schools (community colleges and open-access four-year schools) interacted with their immediate environment, including hiring, focused academic programs, and alumni engagement.	
	College Coaching, Stanford University2010-2011Research Assistant, PI: Eric Bettinger2010-2011Analyzed administrative data from a third-party company to assess the effects of2010-2011individualized college coaching on student persistence. Conducted literature review2010-2011and wrote paper.2010-2011	
	Signed-Spoken Bilingualism, Dartmouth College2002-2003Research Assistant, PI: Laura Ann Petitto2002-2003Coded video data of young children growing up in signed-spoken bilingual environmentsNoted key markers of linguistic development.	•
University Teaching Experience	Course Designer and Instructor July 2014 Intermediate Statistics for Educational Research and Evaluation Save the Children, Kigali, Rwanda Developed a 20-hour curriculum designed to give NGO and government education professionals a foundation in data analysis and data consumption. 40 students, all of whom had Masters or PhD degrees.	
	Teaching Assistant Winter 2013 EDUC 255B: Causal Inference in Quantitative Educational and Social Science Research with Tom Dee Stanford University Led weekly methods section and graded all assignments (12 graduate students)	l
	Seminar Instructor Fall 2012 and Winter 2013 UAR-42: Freshman Seminar Leland Scholars Program Stanford University Devised curriculum and taught weekly meta-academic seminar for Stanford STEM freshman from disadvantaged backgrounds; Met individually with students; Graded all assignments and provided written feedback weekly (33 students)	
	Course Designer and InstructorSpring 2012Broad Access Higher EducationStanford UniversityCo-designed and taught a Master's-level seminar on community colleges, for-profitcolleges, and other open-access institutions. Topics included research on studentpathways, online education, and the sociological and economic role of this sector.	

	Course Designer and Instructor American Sign Language Dartmouth College Designed and taught 10-week evening beginner course on American Sig including grammar, vocabulary and conversation.	2002-2004 n Language,
K-12 Teaching Experience	Special Education and Literacy Teacher The Learning Center for the Deaf, Framingham, MA Taught first grade special education class and 2nd-5th grade oral acc Taught primarily in American Sign Language.	2006 - 2008 cess literacy.
	Elementary School Teacher Ejit Elementary School, Ejit, Majuro, Marshall Islands Taught first-third grade English, math and science to non-English speak Led professional development for school's staff Taught weekly English lesson to adult community members Taught American Sign Language to parents of Deaf children	2004 - 2006 ing children.
Selected Professional Experience	 Sign Language Instructor and Curriculum Consultant Teach Koko the Gorilla's caretakers introductory sign language; Consul organization on a mobile app to teach sign language to pre-readers us and videos of Koko the Gorilla. The Steppingstone Foundation, Boston, MA Assistant Director of College Programming Conducted research on graduation and transfer rates and college ex Steppingstone Alumni; advised 100+ middle- and high- school students a college preparation curriculum 	ing pictures 2008-2010 periences of and created
	 Summer Enrichment at Dartmouth, Hanover, NH Assistant Director, Student Director Oversaw school year planning and development of social and academic curriculum for 40 high school students from five high schools in low is across the country; trained and supervised 15 residential staff and 50 w five-week summer program 	ncome areas

PROFESSIONAL SERVICE

Advisor	Haas Center for Public Service, High School Tutoring Program, Stanford University
Reviwer	Economics of Education Review Journal of Economic Behavior & Organization
Member	Society for Research on Educational Effectiveness The Association for Education Financy and Policy Association for Public Policy Analysis and Management Association for the Study of Higher Education California Community College Research and Planning Group

MEDIA MENTIONS

NEWSPAPERS "Schooling Ourselves in an Unequal America," New York Times, June 16, 2013.

"Editorial: Class-Based vs. Race-Based Admissions," *New York Times*, November 18, 2012.

"Minority Enrollment: Black and Hispanic Students Underrepresented at Highly Selective Colleges, Stanford Study Finds," *The Huffington Post*, July 17, 2012.

"Study: Student Coaching Increases Retention, Graduation Rates," *Huffington Post*, March 11, 2011.

"The Choice: Study Finds Academic 'Coaching' Boosts Graduation Rates," New York Times, March 11, 2011.

REFERENCES for **RACHEL BAKER**

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Tom Dee Professor, Stanford University School of Education520 Galvez Mall #514, CERAS Building, Stanford, CA 94305-3084(650)723-6847tdee@stanford.edu

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