

CATHERINE RIEGLE-CRUMB

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EDUCATION

Doctor of Philosophy (PhD), Sociology, *University of Chicago*, Chicago, Illinois 2000

Master of Arts (MA), Sociology, *University of Chicago*, Chicago, Illinois 1996

Bachelor of Arts (BA), Sociology, *Texas A&M University*, College Station, Texas 1993

PROFESSIONAL APPOINTMENTS

Associate Professor 2013- Present
Department of Curriculum and Instruction, STEM Education
Department of Sociology (By Courtesy)
University of Texas at Austin

Assistant Professor 2007-2013
Department of Curriculum and Instruction, STEM Education
Department of Sociology (By Courtesy)
University of Texas at Austin

Faculty Research Associate 2007-present
Population Research Center, *University of Texas at Austin*

Faculty Affiliate 2007-present
Center for Women's and Gender Studies, *University of Texas at Austin*

Research Assistant Professor 2006-2007
Population Research Center, *University of Texas at Austin*

Postdoctoral Fellow 2002-2006
Population Research Center, *University of Texas at Austin*

Research Associate 2001-2002
Bureau of Sociological Research, *University of Colorado at Boulder*

Research Assistant 1994-2001
National Opinion Research Center, *University of Chicago*

Teaching Intern 1998-1999
Division of the Social Sciences, *University of Chicago*

PUBLICATIONS IN PEER-REVIEWED JOURNALS

*indicates that author was a graduate student at the time of publication

Riegle-Crumb, C. & *Moore, C. (2014). "The gender gap in high schools physics: Examining the local context of communities." *Social Science Quarterly*, 95(1): 253-268.

Riegle-Crumb, C. & *Moore, C. (2013). Examining gender inequality in a high school engineering course." *American Journal of Engineering Education*, 4 (1): 55-65.

Riegle-Crumb, C., *King, B., Grodsky, E. & Muller, C. (2012). The more things change, the more they stay the same? Prior achievement fails to explain gender inequality in entry into STEM college majors over time. *American Educational Research Journal*, 49 (6), 1048-1073.

Riegle-Crumb, C. & *Humphries, M. (2012). Exploring bias in math teachers' perceptions of students' ability by gender and race/ethnicity. *Gender and Society*, 26(2), 290-322.

Riegle-Crumb, C., *Moore, C. & *Ramos-Wada, A. (2011). Who wants to have a career in science or math?: Exploring adolescents' future aspirations by gender and race/ethnicity. *Science Education*, 95(3), 458-476.

Riegle-Crumb, C. & *King, B. (2010). Questioning a white male advantage in STEM: Examining disparities in college major. *Educational Researcher*, 39, 656-664.

Riegle-Crumb, C. & Grodsky, E. (2010). Racial-ethnic differences at the intersection of math course-taking and achievement. *Sociology of Education*, 83(3), 248-270.

Riegle-Crumb, C. (2010). More girls go to college: Exploring the social and academic factors behind the female postsecondary advantage among Hispanic and white Students. *Research in Higher Education*, 51(6), 573-593.

Grodsky, E. & Riegle-Crumb, C. (2010). Those who choose and those who don't: Social background and college orientation. *The ANNALS of the American Academy of Political and Social Science*, 627 (1), 14-35.

Muller, C., Riegle-Crumb, C., Schiller, K., *Wilkinson, L. & Frank, K. (2010). Race and academic achievement in racially diverse high schools: Opportunity and stratification. *Teachers College Record*, 112 (4), 1038-1063.

Riegle-Crumb, C. & Callahan, R. (2009). Exploring the academic benefits of friendship ties for Latino boys and girls. *Social Science Quarterly*, 90(3), 611-631.

*Pearson, J., *Crissey, S. & Riegle-Crumb, C. (2009). Gendered fields: Sports and advanced course taking in high School. *Sex Roles*, 61, 519-535.

Frank, K., Muller, C., Schiller, K., Riegle-Crumb, C., +Mueller, A., Crosnoe, R. & Pearson, J. (2008). The social dynamics of mathematics course-taking in high school. *American Journal of Sociology*, 113, (6), 1645-1696.

+Choi, K., Raley R. K., Muller, C. & Riegle-Crumb, C. (2008). A longitudinal analysis of exposure to peers with college educated parents and students' college enrollment. *Social Science Quarterly*, 89(4), 846-866

Crosnoe, R., Riegle-Crumb, C., Field, S., Frank, K. & Muller, C. (2008). Peer group contexts of adolescent academic experiences. *Child Development*, 79(1), 139-155.

Cavanagh, S., Riegle-Crumb, C. & Crosnoe, R. (2007). Early pubertal timing and girls' academic careers. *Social Psychology Quarterly*, 70 (2), 186-198.

Crosnoe, R. & Riegle-Crumb, C. (2007). A life course model of education and alcohol use. *Journal of Health and Social Behavior*, 48, 267-282.

Crosnoe, R., Riegle-Crumb, C. & Muller, C. (2007). Gender, self-perception, and academic problems in high school. *Social Problems*, 54 (1), 118-138.

Riegle-Crumb, C., Farkas, G. & Muller, C. (2006). The role of gender and friendship in advanced course-taking. *Sociology of Education*, 79 (3), 206-228.

Riegle-Crumb, C. (2006). The path through math: Course-taking trajectories and student performance at the intersection of gender and race/ethnicity. *American Journal of Education*, 113 (1), 101-122.

Cavanagh, S., Schiller, K. & Riegle-Crumb, C. (2006). Marital transitions, parenting, and schooling: Exploring the linkage between family structure history and adolescents' educational careers. *Sociology of Education*, 79 (4), 329-354.

Reprinted in *Schools and Society: A Sociological Approach to Education*, 3rd edition. Edited by J. Ballantine and J. Spade. Pine Forge Press/Sage Publications, 2007.

Field, S., Frank, K., Schiller, K., Riegle-Crumb, C. & Muller, C. (2006). Identifying positions from affiliation networks: Preserving the duality of people and events. *Social Networks*, 28 (2), 97-186.

Smith, S., Pederson-Gallagos, L. & Riegle-Crumb, C. (2002). The training, careers, and work of PhD physical scientists: Not simply academic. *American Journal of Physics*, 70, 1081-1092.

Schneider, B., Swanson, C.B. & Riegle-Crumb, C. (1998). Opportunities for learning: Course sequences and positional advantages. *Social Psychology of Education*, 2, 25-53.

BOOK CHAPTERS AND ENCYCLOPEDIA ENTRIES

Wiseman, A.W., Baker, D., Riegle-Crumb, C. & Ramirez, F. (2009). Shifting gender effects: Opportunity structures, institutionalized mass schooling, and cross-national achievement in mathematics. In *International Perspectives on Education and Society, Volume 10: Gender, Equality and Education from International and Comparative Perspectives*, edited by D. P. Baker and A. W. Wiseman, Emerald Group Publishing Limited.

Riegle-Crumb, C. (2005). The cross-national context of the gender gap in math and science. In *The Social Organization of Schools*, edited by L. Hedges and B. Schneider, Russell Sage Foundation Press.

Pearson, J. & Riegle-Crumb, C. (2007). Gender and Education. Volume IV in *Blackwell Encyclopedia of Sociology*, edited by G. Ritzer, Blackwell Publishing.

Riegle-Crumb, C. (2007). Gendered achievements in science. In *Gender and Education*, edited by B. Bank, Greenwood Press.

BOOK REVIEWS AND RESEARCH REPORTS

Riegle-Crumb, C. (2009). Review of *Removing Barriers: Women in Academic Science, Technology, Engineering, and Mathematics*, edited by J. Bystydzienski and S. Bird. *American Journal of Sociology*, 114(4), 1231-1232.

Riegle-Crumb, C., Muller, C, Frank, K. & Schiller, K. (2005). National Longitudinal Study of Adolescent Health: Wave III Education Data. Carolina Population Center, University of North Carolina at Chapel Hill.

Riegle-Crumb, C. (2005). Review of *Affirmative Action is Dead: Long Live Affirmative Action*, by Faye Crosby. *Contemporary Sociology: A Journal of Reviews*, 34(3), 249-50.

INVITED PRESENTATIONS

“Examining Inequality in STEM Fields: Patterns by Gender and Race/Ethnicity.” Presentation to the Scientific Management Review Board, National Institute of Health (NIH). July, 2014.

“Who Enters and Exits the Sciences? Exploring Trends over Time by Gender, Race/Ethnicity, and Social Class.” Presentation at the Curry Education Research Lectureship Series (sponsored by a training grant from the Institute of Education Sciences (IES)), University of Virginia, March 2012.

“Exploring Gender Equity in Science from High School to College.” Presentation at the University of Texas Physics Education Forum, November 2011.

PRESENTATIONS AT PROFESSIONAL MEETINGS

“Do they stay or do they go? Examining the association between gender composition of field and men’s and women’s decisions to switch college majors”. Co-authors: Barbara King and Chelsea Moore. Paper presented at the Sociology of Education Association (SEA) Annual Meeting, Asilomar, CA, February 2013.

“Does gender matter? Men and women’s persistence in postsecondary fields of study.” Co-author: Barbara King. Paper presented at the American Education Research Association (AERA) Annual Meeting, Vancouver, BC, April 2012.

“Mindsets towards math: Exploring implications for gender equity.” Paper presented at the Sociology of Education Association (SEA) Annual Meeting, Asilomar, California, February 2012.

“Differing Perceptions of Ability, Equality, and Opportunity.” Invited Discussant for Paper Session at the American Education Research Association (AERA) Annual Meeting, New Orleans, LA, April 2011.

“The More Things Change the More They Stay the Same? Examining Equity in Academic Preparation and Entry into STEM College Majors Over Time”. Co-authors: Barbara King, Eric Grodsky, and Chandra Muller. Paper presented at the Sociology of Education Association (SEA) Annual Meeting, Asilomar, California, February 2011.

“Challenging the White Male Advantage in STEM: New Evidence of College Major Patterns by Gender and Race/Ethnicity.” Co-author: Barbara King. Paper presented at the American Education Research Association (AERA) Annual Meeting, Denver, Colorado, April 2010.

“Teacher Assessments of Students' Math Ability: Relying on Evidence or Stereotypes?” Co-author: Melissa Humphries. Paper presented at the Sociology of Education Association (SEA) Annual Meeting, Asilomar, California, February 2010.

“Who Enters and Exits the Sciences? New Evidence Concerning Gender, Race/Ethnicity, and Field.” Co-author: Barbara King. Paper presented at the American Sociological Association (ASA) Annual Meeting, San Francisco, California, August 2009.

“More Girls Go to College: The Academic and Social Factors Behind the Female Postsecondary Advantage Among Hispanic and White Students.” Paper presented at the American Education Research Association (AERA) Annual Meeting, San Diego, California, March 2009.

“The Intersection of Course-taking and Test Scores: Differences by Students’

Race/Ethnicity and School Context.” Co-author: Eric Grodsky. Paper presented at the American Education Research Association (AERA) Annual Meeting, New York, March 2008.

“The Academic Achievement of Latino Youth: Exploring the Role of Friends, Generational Status, and Gender”. Co-author: Rebecca Callahan. Paper presented at the American Educational Research Association (AERA) Annual Meeting, April 2007, Chicago, Illinois.

“The Academic Achievement of Latino Adolescents: Gender, Generational Status and Peers.” Co-author: Rebecca Callahan. Paper presented at the American Sociological Association (ASA) Annual Meeting, August 2006, Montreal Canada.

"Friendship Networks, Social Capital, and Immigrant Students' Academic Achievement." Co-author: Rebecca Callahan. Paper presented at the Sociology of Education Association Annual Meeting, February 2006, Monterey, California.

“The Path Through Math: Course-taking and Performance at the Intersection of Gender and Race/Ethnicity.” Paper presented at American Sociological Association Annual Meeting, August 2005, Philadelphia Pennsylvania.

“Transitions and Trajectories: Early Pubertal Timing and Girls' Academic Careers”. Paper presented at the American Sociological Association Annual Meeting, August 2005. Philadelphia, Pennsylvania.

“Add Health: New Educational Data”. Data Workshop at the American Sociological Association Annual Meeting. August 2005. Philadelphia, Pennsylvania.

“The Gender Gap in High School Physics: Examining the Context of School Communities”. Paper presented at the American Education Research Association Annual Meeting. April 2005, Montreal, Canada.

“A Gender Gap in the Importance of Friendship for Academic Success: Data and Findings from the Adolescent Health and Academic Achievement Study (AHAA).” Paper presented at the University of Chicago Demography Workshop, December 2004.

“An Introduction to Data from the Adolescent Health and Academic Achievement (AHAA) Transcript Study”. Methodology Session at the Add Health User's Conference. July 2004, Bethesda Maryland.

“Measuring Equity in Advanced High School Science”. Paper presented at the American Sociological Association Annual Meeting. August 2003, Atlanta, Georgia.

“High School Educational Experiences and the Transition to College: A Focus on Latino Students”. Paper presented at National Academy of Science (NAS) Conference

on Latino Education. August 2003, Newport Beach, California.

"Levels of Gender Inequality: The Importance of Objective and Subjective Factors" Paper presented at the American Sociological Association Annual Meeting. August 2001, Anaheim, California.

"International Gender Inequity in Math and Science Education: The Importance of Gender Stratification Across Generations". Paper presented at the AERA Grants Program Doctoral Conference. October 2000, Washington D.C.

"Re-thinking the Generation Gap: The Relationship Between Adult Women's Status and Girls' Math and Science Education in International Context". Paper presented at the American Sociological Association Annual Meeting. August 2000, Washington D.C.

"Choosing the Right Path: Course Sequences and Educational Success During High School and Beyond." Co-authored with Christopher B. Swanson. Paper presented at American Sociological Association Annual Meeting. August 1998, San Francisco, California.

RESEARCH GRANTS (FUNDED)

2014-2019 Principal Investigator. *The Role of Academic Achievement and Social Inclusion in Broadening STEM Participation: Intended and Actual Attainment at the Intersection of Gender and Race/Ethnicity.* National Science Foundation, HRD Division.

2014-2019 Co-Principal Investigator. *Peer Influences on Adolescents' Self-concept, Achievement, and Future Aspirations in Science and Mathematics: Does Student Gender and Race Matter?* (PI=Nilanjana Dasgupta) National Science Foundation

2013-2015 Principal Investigator. *Developing STEM Aspirations: An Examination of Contextual Influences and Inequality by Gender and Race/Ethnicity* Spencer Foundation

2013-2016 Co-Principal Investigator. *Collaborative Research: Building on STEP to Understand Variation in STEM Entry and Persistence.* (PI=Chandra Muller) National Science Foundation, DUE Division

- 2010-2014 Co-Principal Investigator. *Education and the Transition to Adulthood*. (PI= Chandra Muller)
National Institutes of Health (R01-HD061551-01)
- 2010-2015 Collaborator. *UTeach Engineering: Teaching Secondary Teachers to Deliver Design-Based Engineering Instruction*. (PI= Dave Allen)
National Science Foundation (DUE-0831811)
- 2008-2011 Co-Principal Investigator. *STEM in the New Millennium: Preparation, Pathways, and Diversity*. (PI=Chandra Muller)
National Science Foundation (DUE-07570)
- 2009-2012 Co-Principal Investigator. Evaluation of Sally Ride Science Curriculum Project. (PI=Chandra Muller)
Sally Ride Science
- 2008 Principal Investigator. *The Spectrum of Racial/Ethnic Inequality in High School: Levels of Course-taking and School Segregation*.
Faculty Summer Research Grant (SRA), University of Texas at Austin
- 2005-2008 Co-Principal Investigator. *Gender Differences in Science and Math: Diversity and the Role of Social Context*. (PI= Chandra Muller)
National Science Foundation (HRD-0523046)
- 2005-2006 Principal Investigator. *Examining Inequality at the Intersection of Gender and Race/Ethnicity: High School Achievement and Post-Secondary Matriculation*.
Texas Higher Education Opportunity Project (with funds from the Spencer and Ford Foundations).
- 2000-2002 Principal Investigator. *Levels of Gender Inequality*.
American Educational Research Association (AERA) Research Grant
- 1998-2000 Principal Investigator. *International Gender Inequity in Math and Science Education*.
American Educational Research Association (AERA) Dissertation Grant

NATIONAL SERVICE

- 2014-2016 Chair
Sociology of Education Special Interest Group (SIG)
American Educational Research Association (AERA)
- 2013-2015 President
Sociology of Education Association (SEA)
- 2013-2016 Committee on Scholars & Advocates for Gender Equity in Education
American Educational Research Association (AERA)
- 2012-2014 Editorial Board Member
Sociology of Education
- 2011-2013 Treasurer, Sociology of Education SIG
American Educational Research Association (AERA)
- 2012 Graduate Student Paper Committee, Sociology of Education SIG
American Educational Research Association (AERA)
- 2011 Program Co-Chair for Section on Sociology of Education
American Sociological Association (ASA) Annual Meeting
- 2008-2011 Sociology of Education Council
American Sociological Association (ASA)
- 2007-2009 Board Member, Sociology of Education Association (SEA)
- 2007 Invited Reviewer for the Institute of Education Statistics, National
Center of Education Statistics (NCES)
- 2003-2011 Invited Reviewer for National Science Foundation (NSF)
- 1997-present Peer reviewer: *American Educational Research Journal (AERJ)*,
American Journal of Education (AJE), *American Journal of Sociology (AJS)*,
American Sociological Review (ASR), *Anthropology and Education Quarterly (AEQ)*,
Bulletin of Economic Research, *Comparative Education Review*, *Contemporary Sociology*,
Educational Evaluation and Policy Analysis (EEPA), *Journal of Teacher Education*,
Learning and Individual Differences, *Science Education*, *Sociology of Education (SOE)*,
Social Forces, *Sociological Perspectives*, *Social Problems*, *Social Psychology Quarterly (SPQ)*,
Social Science Research, and *Urban Education*.

UNIVERSITY SERVICE

- 2009-2013 Admissions and Registration Standing Committee
Chair (2012-2013); Vice Chair/Chair Elect (2010-2012)
University of Texas, Austin
- 2009-2011 Faculty Council
University of Texas, Austin

COLLEGE AND DEPARTMENT SERVICE

- 2013-2014 Chair, Faculty Search Committee, STEM Education Search
Department of Curriculum and Instruction, *University of Texas, Austin*
- 2012-2013 Graduate Studies Committee (GSC) Secretary
Department of Curriculum and Instruction, *University of Texas, Austin*
- 2011-2013 Foundation and Research Courses Committee
Department of Curriculum and Instruction, *University of Texas, Austin*
- 2010-2012 Undergraduate Fellowship Committee
Science and Math Education Program Area
Department of Curriculum and Instruction, *University of Texas, Austin*
- 2009-2012 UTeach Student Appeals Committee
Colleges of Education & Natural Sciences, *University of Texas, Austin*
- 2009-2011 Fellowships and Awards Committee
Chair (2010-2011)
Department of Curriculum and Instruction, *University of Texas, Austin*
- 2009-2010 UTeach Steering Committee
Colleges of Education & Natural Sciences, *University of Texas, Austin*
- 2006-2008 Faculty Advisor to Research Project : “Unbundling Youth, Family and
Community Involvement in College Access: On the Ground in Austin,
Texas”. Funded by the Bill and Melinda Gates Foundation

HONORS AND AWARDS

- 2013 University of Texas Regents’ Outstanding Teaching Award

TEACHING AND MENTORING

Undergraduate courses:

EDC 365C: Knowing and Learning in Math and Science

Graduate courses:

EDC382R: Fundamentals of Statistics

EDC 385R: Curriculum History and Development

EDC 385G: Advanced Topics: Gender and Racial/Ethnic Inequality in Math and Science Education

EDC 185G: Graduate Forum

Dissertation Committees (*completed*): Lauren Blandeau, Educational Psychology; Prudence Cain, Math Education; Adem Ekmekci, Math Education; Monica Flores, Science Education; Claire Hodgins, Math Education; Barbara King (chair), Math Education; Carmen Petrick, Math Education; Abigail Heller, Communications; Chelsea Moore (chair), Sociology; Aida Ramos-Wada, Sociology; Dara Shifrer, Sociology.

Dissertation Committees (*in process*): Tara Craig, Science Education; David Derr, Learning Technologies; Melissa Humphries, Sociology; Nathalie Hunt, Curriculum and Instruction; Pat Ko, Science Education; Karisma Morton, Math Education; Sarah Rodriguez, Educational Administration; April Sutton, Sociology.

Master's Theses Supervision: Chelsea Moore, Sociology; Jiyeon Park, Math Education; Dara Shifrer, Sociology; April Sutton, Sociology; Jana Walker, Math Education; Monica Yudron, Math Education.