

Cecilia Henríquez Fernández
Curriculum Vitae

Rice University
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EDUCATION

- Ph.D. University of California, Los Angeles, 2017
Graduate School of Education and Information Studies, Social Research Methodology
Dissertation: *Investigating the Relationship Between Student Mathematical Talk, Mathematical Student Roles and Teacher Discourse Around Student Behavior in the Classroom*
Committee: Noreen Webb (chair), Megan L. Franke, Noel Enyedy, Marjorie H. Goodwin
- M.A. University of California, Los Angeles, 2008
Graduate School of Education and Information Studies, Social Research Methodology
- B.S. Massachusetts Institute of Technology, 2005
Department of Mathematics

PROFESSIONAL EXPERIENCE

- 2020 – Present Postdoctoral Research Associate, R-STEM Engagement Office, Rice University, Houston, Texas
- 2018 – 2020 Postdoctoral Research Fellow, School of Information, University of Michigan, Ann Arbor

PUBLICATIONS

Peer Reviewed Journals

- 2020 Garcia, P., **Fernández, C.H.**, Okonkwo, H., Leveraging Technology: How Black Girls Enact Critical Digital Literacies for Social Change. *Learning, Media & Technology*.
- 2019 Garcia, P., **Fernández, C.H.**, Jackson, A. Counternarratives of Youth Participation Among Black Girls. *Youth & Society*, 0044118X18824738.
- 2015 Franke, M.L., Turrou, A.C., Webb, N.M., Ing, M., Wong, J., Shin, N., & **Fernandez, C.H.** Student's Engagement with Other's Mathematical Ideas: The

Role of Teacher Invitation and Support Moves. *The Elementary School Journal*, 116(1), 126-148

- 2015 Ing, M., Webb, N. M., Franke, M. L., Turrou, A. C., Wong, J., Shin, N., & **Fernandez, C. H.** Student participation in elementary mathematics classrooms: the missing link between teacher practices and student achievement? *Educational Studies in Mathematics*, 90(3), 341-356.
- 2014 Webb, N.M., Franke, M.L., Ing, M., Wong, J., **Fernandez, C.H.**, Shin, N., & Turrou, A.C. Engaging with others' mathematical ideas: Interrelationships among student participation, teachers' instructional practices and learning. *International Journal of Educational Research*, 63, 79-93
- 2013 Chan Turrou, A., & **Henríquez Fernández, C.** Mathematical Proficiency and Perseverance in Action: The Case of Maria and Andrew*. *Journal of Mathematics Education at Teachers College*, 3(2), 67-72

Book Reviews

- 2011 **Henríquez Fernández, C.** Latinos/as Mathematical Experiences: A Review of Latinos/as and Mathematics Education. *Journal of Urban Mathematics Education*, 4(2), 131-139

Book Chapters

- 2009 Gutierrez, K., Ali, A., & **Henríquez, C.** Syncretism and Hybridity: Schooling, Language, and Race and Students from Non-dominant Communities. In M.W. Apple, S. J. Ball, & L.A. Gandin. (Eds.), *The Routledge International Handbook of the Sociology of Education*. (358-369) New York, NY: Routledge.

Under Review

- 2020 **Fernández, C.H.** & Garcia, P., Designing Culturally Responsive Computing Learning Environments in Public Libraries, *ACM Transactions on Computing Education*

In Preparation

Classroom Discourse: Opening Pathways for Student Mathematical Participation and Learning, to be submitted to *Journal of Research in Mathematics Education*

The Social and Cognitive Affordances of Playing Battleship to be submitted to *Journal of Learning Sciences*

CONFERENCE PRESENTATIONS

Papers

- 2020 Broadening Mathematics Classroom Participation through Teacher Discourse Practices. Paper accepted to the *American Educational Research Association Annual Meeting*. San Francisco, CA. (Canceled due to COVID-19)
- 2019 Tech Savvy Black Girls: Countering the Narrative that Black Girls are not interested in STEM. Paper accepted to the *American Educational Research Association Annual Meeting*. Toronto, Canada
- 2018 Black Girl Participation in Technology: Past, Present, and Future. Presented at the *117th Annual American Anthropological Association Meeting* in San Jose, CA.
- 2012 Beyond the Transcript: Toward Innovative Methods for Video-Based Classroom Interaction. Paper presented at the *American Educational Research Association Annual Meeting*. Vancouver, Canada.
- 2011 The Negotiation and Formation of Elementary School Children's Social Identities in Game Playing. Paper presented at the *American Educational Research Association Annual Meeting*. New Orleans, LA.
- 2010 "I Challenge You": How Students Develop and Maintain Expert Identities and Expertise in Game Play. Paper presented at the *American Educational Research Association Annual Meeting*. Denver, CO.

Posters

- 2015 Identifying with Math: A Case-Study of Math Student Identity Construction in Two Elementary Classrooms. Poster accepted to the *27th Annual Ethnographic and Qualitative Research Conference*. (Not presented due to illness)
- 2014 Student Identity and Participation in Mathematics Classroom. Poster Presented at the *Latina Researchers Networking Conference*. New York, NY.
- 2009 Battleship Sunk! A Case-Study of Mathematic Skills development in Children's Game Playing. Poster presented at the *American Anthropological Association Annual Meeting*. Philadelphia, PA.

INVITED PRESENTATIONS

- 2018 Culturally Relevant Mathematics: What is it?, Ascender: Catch the Next Spring Seminar San Antonio, TX, March 1

2018 Making Math Accessible: A Reflection on What is Math, Who has Access, and Why We care? Ascender: Catch The Next Spring Seminar, San Antonio, TX, March 2

TEACHING EXPERIENCE

University of California, Los Angeles, Teaching Assistant for Graduate Courses

Introduction to Research Design and Statistics (Fall 2009, 2010)

Linear Statistical Models in Social Science Research: Multiple Regression Analysis (Winter 2010, 2011)

Linear Statistical Models in Social Science Research: Analysis of Design Experiments (Spring 2010, 2011)

Introduction to Qualitative Methods and Design Issues in Educational Research (Fall 2011)

Participant-Observation Field Methods (Winter 2009, 2010, 2012)

University of California, Los Angeles, Teaching Assistant for Undergraduate Course

Culture, Communications and Human Development Research (Spring 2010)

Long Beach City College, Long Beach, CA, Upward Bound Instructor

Introduction to Physics (Summer 2008)

Other Teaching Activities

Fontana Unified School District, Fontana, CA, High School Math Teacher

Algebra I, Geometry, Algebra II, Calculus AB (August 2005 – August 2007)

Instructed 9th – 12th grade Algebra I, Geometry, Algebra II, and Calculus AP, collaborated with instructors from the Science Department to create cross-subject projects for students, Instructed Algebra I in a self-paced computer lab using I CAN LEARN© software, developed and updated Algebra I curriculum including Algebra I Assessments

CERTIFICATIONS AND LICENSURE

2005 Massachusetts State Educator License in Mathematics Education, grades 9 – 12

2005 California Preliminary Single Subject Credential in Mathematics

RESEARCH EXPERIENCE

2010 – 2013 UCLA Mathematics Teaching and Learning Group, Advisors: Noreen Webb and Megan Franke

Prepared data for indexing and coding, developed, tested, and applied qualitative coding structure using StudioCode, Conducted Qualitative and Quantitative Data Analysis, Prepared Conference papers.

2008 – 2009

Las Redes Afterschool Game Club, Advisor: Kris D. Gutierrez

Facilitated the implementation of experimental learning games in an after school educational program, collected fieldnotes, photos, and videos for data analysis, Analyzed project data to determine impact of games on student identity, Produced weekly reports for the project database and Principal Investigator, Prepared conference papers

HONORS AND AWARDS

2011 Graduate Summer Research Mentorship Fellowship, UCLA

2010 Department of Education Distinguished Teaching Assistant Award Recipient, UCLA

2009 Graduate Summer Research Mentorship Fellowship, UCLA

2008 Eugene V. Cota-Robles Doctoral Fellowship, UCLA

2007 Graduate Opportunity Fellowship Program, UCLA

2005 Albert G. Hill Award Recipient, MIT

EDITORIAL POSITIONS, BOARDS, PEER REVIEW SERVICE

Computer Science and Education, Peer Review Service, 2020-Present

Youth and Society, Peer Review Service, 2018 - Present

Journal of Ethnographic and Qualitative Research, Editorial Board, May 2018 - Present

American Educational Research Association, Conference Reviewer, 2011, 2012, 2019

TAPIA Conference, Abstract Reviewer, 2018

National Science Foundation, Proposal Review Panelist, 2018

PROFESSIONAL AFFILIATIONS

National Council of Teachers in Mathematics (NCTM), 2012 - Present

American Educational Research Association (AERA), 2009 – Present

American Anthropological Association (AAA), 2009 – 2011, 2018 - Present

COMMITTEE, ORGANIZATIONAL, AND VOLUNTEER SERVICE

American Educational Research Association, Graduate Student Council Program Chair, 2013

UCLA Kneller Endowed Chair Search Committee, Student Representative, 2012

American Educational Research Association, Graduate Student Council Community Leader, 2012

American Educational Research Association, Division G Graduate Student Senior Representative 2011

American Educational Research Association, Division G Graduate Student Junior Representative 2010

UCLA Graduate Students Association in Education, Division Representative (2008 – 2009)

UCLA Campus Programs Committee Member (2007-2008)

Latinas in STEM, Board Director, 2015 - 2017

Latinas in STEM, Workshop Presenter, March 2014, May 2015

LANGUAGES

Spanish: Native Speaker, Fluent in reading and Writing

References

Patricia Garcia
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