

Sara C Heredia

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EDUCATION

- 2010–2015 **University of Colorado**, Boulder, Colorado
Ph.D. Candidate in Curriculum and Instruction, Science Education
Faculty Advisor: Assoc Professor Erin Furtak
- 2004–2007 **The City College of New York**, New York, New York
M.A. Secondary Science Education
Master's Thesis: *Eighth grade students' understanding of systems as represented in their interpretation of food webs.*
- 1999–2004 **University of Colorado**, Boulder, Colorado
B.A. in Biological Sciences- Environmental, Population, and Organismic Biology. Honor's Thesis: *Plant species diversity effects on nitrogen retention in the alpine.*

DISSERTATION

- ABD **Proposed Topic:** Science teachers learning about formative assessment in a high-stakes accountability climate. Dissertation Committee: Dr. Erin Furtak (chair), Dr. Lorrie Shepard, Dr. Susan Jurrow, Dr. Bill Penuel, and Dr. Michael Klymkowsky (Biology)

PROFESSIONAL EXPERIENCE

- 2010– **Research Assistant**, ELEvATE- Dr. Erin Furtak, University of Colorado, Boulder, CO. Five year, NSF funded research project on formative assessment development in natural selection with high school biology teachers.
- Developed professional development activities
 - Facilitate monthly professional development on formative assessment with two groups of high school biology teachers.
 - Administered and scored pre/post/follow-up assessment of high school students
 - Data management and organization
 - Qualitative and quantitative data analysis
 - Classroom video and observation data collection
 - Interview teachers yearly
- 2012 **Teaching Assistant**, Classroom Interactions, CUTEACH, University of Colorado, Boulder, CO
- 2011 **Teaching Assistant**, Language and Literacy across the Curriculum, School of Education, University of Colorado, Boulder, CO

- 2008-2009 **Staff**, Math and Science Project, The City College of New York, New York, NY
- Taught and developed biology content courses to teachers' outside their certification area.
 - Classroom support for inquiry activities.
 - Coordinated a poster symposium for teachers and their students to share the results of the problem-based inquiry activities at City College.
 - Advised students
- 2007-2009 **Adjunct Lecturer**, The City College of New York, New York, NY
- Supervised masters students' action research projects
 - Life Science for Middle School Teachers I and II
 - Curriculum and Instruction in Science
- 2004-2008 **Science Teacher**, C.A.S.T.L.E. M345 and Corlears JHS 56, New York, NY

AWARDS, FELLOWSHIPS, AND HONORS

- 2010 **Doctoral Fellowship**, School of Education, University of Colorado, Boulder, CO
- 2007 **Master's Thesis Award**, School of Education, The City College of New York, New York, NY
- 2004-2007 **New York City Teaching Fellows**, New York, NY
- 2004 **Summa cum Laude**, University of Colorado, Boulder, CO

PROFESSIONAL EXPERIENCE TRAINING

- 2011 **Sandra K. Abell Research Institute**, National Research of Science Teaching, Hosted by Biological Science Curriculum Study, Colorado Springs, CO
- 2005-2008 **Urban Advantage**, Middle school science initiative, New York, NY
Professional development designed to support middle school science teachers in doing long-term empirical investigations in their classrooms.

REFEREED PUBLICATIONS (UNDER REVIEW)

- Heredia, S.C., Furtak, E.M., & Morrison, D. (under review). Context matters: Exploring students' responses to natural selection multiple-choice items. *International Journal of Science Education*.
- Furtak, E.M. & Heredia, S.C. (under review). Exploring the Influence of Learning Progressions on Two Teacher Communities. *Journal of Research in Science Teaching*.

Furtak, E.M., Cartun, A., Chrzanowski, A., Circi, R., Grover, R., Heredia, S.C., Johnson, R., McClelland, A. & White, K.H.O. (under review). Reframing Formative Assessment. Educational Assessment.

CONFERENCE PAPERS

Furtak, E.M. & Heredia, S.C. (2013). Exploring the Influence of Learning Progressions on Unit Scope and Sequence. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

Furtak, E.M., Heredia, S., Morrison, D. & Renga, I.R. (2012). Conversations About Common Formative Assessment: Analysis of a Teacher Learning Community. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC, Canada.

Heredia, S., Furtak, E.M., & Morrison, D. (2012). Item Context: How Organisms Used to Frame Natural Selection Items Influence Student Response Choices. Paper presented at the annual meeting of the National Association of Research in Science Teaching Annual Meeting, Indianapolis, IN.

Furtak, E.M., Morrison, D., Iverson, H., Ross, M., & Heredia, S. (2011). A Conceptual Analysis of the Conceptual Inventory of Natural Selection: Improving Diagnostic Utility Through Within Item Analysis? National Association of Research in Science Teacher Annual Meeting, Orlando, FL.

UNIVERSITY SERVICE

2011-2012 **President, Student Association of Graduate Educators**, School of Education, University of Colorado, Boulder, CO

PROFESSIONAL AFFILIATIONS

2011- **National Association of Research in Science Teaching**, USA

2010- **American Educational Research Association**, USA

REFERENCES

Available upon request