

**ERIN A. HASHIMOTO-MARTELL**

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**EDUCATION**

**Ph.D., Curriculum and Instruction, Boston College, 2014**

Dissertation title: *Using Rasch Models to Develop and Validate An Environmental Thinking Learning Progression*

Committee Members: Katherine McNeill (chair), Larry Ludlow, Lauri Johnson

**M.Ed., Curriculum and Instruction, Boston College, 2004**

**B.S. Ecology, Behavior and Evolution; University of California, San Diego, 1999**

**WORK EXPERIENCE**

**Boston Public Schools, Boston MA**

*K-8 Science Content Specialist, Science Department* 2013-present

- Provide instructional coaching support to teachers and principals across the district
- Plan and develop district-based professional development for teachers and principals
- Support district initiatives and work (create instructional support documents, science fair organization, budget narratives, ATI assessment review)

*Science Teacher & Teacher Leader* 2005-2013

- BPS Science Department: Lead elementary and middle school curriculum trainings for district, participate in curriculum pilots and development
- Nathan Hale Elementary (2008 – present): Teach PreK – 5<sup>th</sup> grade science classes; lead science-related professional development; organize school-wide science fair and events; creator and advisor for environmental club
- Rafael Hernandez Two-Way Bilingual School (2005 - 2008): Taught PreK – 8<sup>th</sup> grade science classes; facilitated teacher inquiry group; manage middle school science fair

**Boston Museum of Science, Boston, MA**

*Overnight Program Instructor* 2003-2014

- Instruct 2<sup>nd</sup> – 7<sup>th</sup> grade participants in workshops based on museum exhibits and scientific inquiry

*Current Science & Technology Program Presenter* 2003

- Develop and deliver presentations on current science topics to museum visitors

**Boston Teacher Residency, Boston, MA**

2010-2013

*Elementary Science Methods Instructor*

- Teach elementary science methods course for BTR resident student teachers/University of Massachusetts, Boston, graduate students

**University of Massachusetts at Boston, Boston, MA**

*Instructor* 2008-2012

- Co-teach EEOS 510: Earth Science I, Weather and Water, graduate level course for in-service science teachers

**Boston University, Boston, MA**

2011

*Secondary Science Methods Instructor*

- Taught SC571: Science Materials: Principles, Design, & Construction

**Boston College, Chestnut Hill, MA**

*Graduate Research Assistant, International Study Center* 2010-2011

- Trends in International Mathematics and Science Study (TIMSS)

*Teaching Fellow* 2009-2011

- Taught ED 546: Teaching About the Natural World, for Masters level students
- Taught ED 109: Teaching About the Natural World, for undergraduate students

*Supervisor of Student Teachers* 2009-2010

- ED 152 & ED 153: Supervise pre-practicum student teachers

*Graduate Research Assistant, Urban Ecology Institute* 2008-2009

- Curriculum developer for middle school urban ecology curricula
- Supported UEI instructors in implementing middle school curriculum

**Wellesley College, Wellesley, MA**

*Instructor* 2007-2008

- Taught EDUC 304: Curriculum and Instruction in Elementary Education, science section, for undergraduate students

**Excel Academy, Boston, MA**

*High School Placement Director* 2005

*Science Teacher* 2004-2005

- Taught and developed curriculum for 6<sup>th</sup> grade, including student research with Mass Audubon; Created high school placement program for the school, initiated contacts with high schools, advised students in high school choice

**San Mateo Outdoor Education Program, La Honda, CA**

*Assistant Principal* 2001-2003

- Supervise and train naturalist teachers, run and supervise high school volunteer program, gave school-based presentations

*Naturalist Teacher* 1999-2001

- Provide instruction and develop curriculum for 5th/6th grade students at a residential outdoor school; including lessons in ecology, sustainable living, social awareness, and maintaining an organic garden as a learning center

**Castro Valley High School, Castro Valley, CA**

*General Science Summer School Teacher* 2003

- Taught 9<sup>th</sup> – 12<sup>th</sup> grade general science course; including biology, chemistry, physics and earth science

### REFEREED JOURNAL ARTICLES

- Hashimoto-Martell, E. A. (under review). Inside the science classroom: Exploring science identities of elementary students of color. *Urban Education*.
- Hashimoto-Martell, E. A., Bennie, F., Clinchot., M., & Daniels, H. (under review). Students' models of energy transfer in ecosystems across grade levels. *Journal of Environmental Education*.
- Hashimoto-Martell, E. A., Clinchot, M., Daniels, H. & Bennie, F. (2012). Across the city and across grades: Investigating energy flow in the Boston Harbor Ecosystem. *Science Scope*, 36(3), 39-42.
- Hashimoto-Martell, E. A., McNeill, K. L., & Hoffman, E. M. (2012). Connecting urban youth with their environment: The impact of an urban ecology course on student content knowledge, environmental awareness and responsible behaviors. *Research in Science Education*, 42(5), 1007-1026.

### BOOK CHAPTERS

- Martell, C. C., & Hashimoto-Martell, E. A. (2012). Throwing out the textbook: A teacher research study of changing texts in the history classroom. In H. Hickman & B. J. Porfilio (Eds.), *The new politics of the textbook: Critical analysis in the core content areas*. (pp. 305-320). Boston: Sense Publishers.

### CONFERENCE PAPERS & PRESENTATIONS

- Hashimoto-Martell, E.A., Daniels, H., Bennie, F. & Clinchot, M. (2013, April). *Reconfiguring the urban science experience: The power of diversity, social context, and the local environment*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Rio Grande, Puerto Rico.
- Hashimoto-Martell, E. A., Daniels, H., Bennie, F. & Clinchot, M. (2012, April). *Vertical collaborative inquiry: Assessing elementary and middle school students' models of energy transfer in ecosystems*. Paper presented at the Annual Meeting of the American Educational Research Association, Vancouver, British Columbia.
- Hashimoto-Martell, E. A. (2012, March). *Building bridges across the borders: Elementary student conceptions of science*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Indianapolis, IN.

- Hashimoto-Martell, E. A. (2011, April). *Exploring science identities of elementary students of color*. Presented as part of the Invited Presidential Session, *Practitioner research: Counternarratives on practice* at the Annual Meeting of the American Educational Research Association, New Orleans, LA.
- Martell, C. C. & Hashimoto-Martell, E. A. (2011, April). *Throwing out the history textbook: Changing social studies texts and the impact on students*. Paper presented at the Annual Meeting of the American Educational Research Association, New Orleans, LA.
- Hashimoto-Martell, E. A. (2011, February). "Can I be a scientist?" *Scientific identities of elementary students of color*. Presentation at the Annual Ethnography in Education Research Forum, Philadelphia, PA.
- Martell, C. C. & Hashimoto-Martell, E. A. (2011, February). *Taking on the history textbook: A critical examination of texts used in a social studies classroom*. Presentation at the Annual Ethnography in Education Research Forum, Philadelphia, PA.
- Hashimoto-Martell, E. A., McNeill, K. L., & Hoffman, E. M. (2010, May). *The Impact of an urban ecology course on students' scientific learning, environmental awareness and stewardship*. Paper presented at the annual meeting of the American Educational Research Association, Denver, CO.
- Bennie, F., Clinchot, M., Hashimoto-Martell, E. A., Ripley, H. (2010, April). *Investigating how students use models to visually represent knowledge of energy transfer in an ecosystem*. Poster presented at the Boston Science Partnership Showcase, University of Massachusetts, Boston, MA.
- Douglas, E., Hashimoto-Martell, E. A., Balicki, S., Oglavie, D. & Fairbank, C. (2009, December). *Teaching science to science teachers: Lessons taught and lessons learned*. Presentation at the fall meeting of the American Geophysical Union, San Francisco, CA.

#### **SELECTED WORKSHOPS/PROFESSIONAL DEVELOPMENT**

- Hashimoto-Martell, E. A. & Ziminski, K. L. (2014, April). *Notebooking for meaning*. Workshop presented at the national conference of the National Science Teachers Association, Boston, MA.
- Hashimoto-Martell, E.A., Clinchot, M., Daniels, H., & Bennie, F. (2014, April). *Reconfiguring the urban science experience: The power of diversity, social context, and the local environment*. NARST sponsored workshop presented the national conference of the National Science Teachers Association, Boston, MA.
- Hashimoto-Martell, E. A. (2013). *The young scientist in the elementary classroom*. Professional development series presented for ACCEPT Education Collaborative in Needham, MA.

- Hashimoto-Martell, E. A. (2013, August) *Elementary science teaching in an urban context*. Guest speaker at the National Institute of Education, Singapore.
- Hashimoto-Martell, E. A. (2013). *Elementary science teaching: Engaging and connecting*. Guest speaker at the Academy of Singapore Teachers, Singapore.
- Hashimoto-Martell, E. A. (2013, August) *Teaching physics of sound in third grade*. Workshop presented to the Boston Public Schools, Boston, MA.
- Hashimoto-Martell, E. A. (2013, August) *Teaching about ecosystems in fifth grade*. Workshop presented to the Boston Public Schools, Boston, MA.
- Hashimoto-Martell, E. A., Daniels, H., Bennie, F. & Clinchot, M. (2012, March). *Get out there and save the world!* Workshop presented at the national conference of the National Science Teachers Association, Indianapolis, IN.
- Hashimoto-Martell, E. A. (2012, February) *Teacher research studies*. Guest speaker in Advanced Classroom Research class, Boston College, Chestnut Hill, MA.
- Daniels, H., Hashimoto-Martell, E. A., Clinchot, M., Bennie, F. (2011, March). *Vertical collaboration through using elementary and middle school student models to assess understanding of energy systems*. Workshop presented at the national conference of the National Science Teachers Association, San Francisco, CA.
- Hashimoto-Martell, E. A. (2011, March) *Scientific writing across the grades: Using claims, evidence, and reasoning*. Workshop presented at Nathan Hale Elementary School, Boston, MA.
- Hashimoto-Martell, E. A. (2010, August) *Teaching weather and water in sixth grade*. Workshop presented to the Boston Public Schools, Boston, MA.
- Hashimoto-Martell, E. A. (2010, April) *Creating and supporting the overall school science program*. Workshop presented at Nathan Hale Elementary School, Boston, MA.
- Hashimoto-Martell, E. A., Wells, D., & Ziminski, K. (2009, April). *Collaborative coaching and learning models in Boston Public Schools science*. Workshop presented at the national conference of the National Science Teachers Association, New Orleans, LA.
- Wells, D. T., Ziminski, K. & Hashimoto-Martell, E. A. (2007, August) *Teaching human body systems in sixth grade*. Workshop presented to the Boston Public Schools, Boston, MA.
- Hashimoto, E. A. (2002, April). *Successful high school leadership programs*. Workshop presented at the annual meeting of the Association for Environmental and Outdoor Education. Malibu, CA.

## AWARDS

Fund For Teachers Fellowship	2013
Boston Public Schools Science Education Fellowship	2009-2012
Boston College Teaching Fellowship	2009-2011
Boston College Graduate Research Assistantship	2008-2011
The Education Award for Minorities, Boston College	2003-2004

## MEMBERSHIPS

National Association for Research in Science Teaching, since 2011  
American Educational Researchers Association, since 2009  
National Science Teacher Association, since 2006  
Boston Teachers Union, American Federation of Teachers, Local 66, since 2005  
Japanese American Citizens League, New England Chapter Board Member, since 2004

## PROFESSIONAL SERVICES

### Journals and Publications

Peer Reviewer for *Research in Science Education*, 2011 to present  
Peer Reviewer for *Science Education*, 2013 to present

### Organizations and Conferences

Member of committee to draft Massachusetts State Environmental Literacy Plan, 2013 to 2014  
Treasurer/Secretary (Elected) for Teacher as Researcher Special Interest Group of the American Educational Research Association, 2014 to present  
Session Chair for *Teacher Research: Understanding the Contexts Inside and Outside the Classroom* at the Annual Meeting of the American Educational Research Association, San Francisco, CA, 2013  
Session Chair for *Teacher Research: Building Student Agency and Motivation* at the Annual Meeting of the American Educational Research Association, Vancouver, BC, 2012  
Proposal Reviewer for the Annual Meeting for the American Educational Research Association:  
Science Teaching and Learning Special Interest Group, 2012 to present  
Teacher as Researcher Special Interest Group, 2011 to present  
Proposal Reviewer for the Annual Meeting for National Association for Research in Science Teaching, 2012 to present

## CONSULTING

- Pearson Education, Boston, MA 2012
- Created and consulted on teacher designed video project connected to science textbooks for elementary, middle, and high school grades
- Rose Fitzgerald Kennedy Greenway Conservancy, Boston, MA 2011
- Created and piloted field lessons for the Greenway to connect to Boston Public Schools science curriculum
- Education Development Center, Newton, MA 2010
- Conducted literature search and ran Rasch analysis on count data from science teacher lesson observations. Worked with Dr. Larry Ludlow, Ph.D. to review analytic output and assist with writing of technical report.
- TERC, Cambridge, MA 2009
- Acted as the advising teacher during design-stage of the research project, *Accessing Science Ideas*, to test the extent to which science specific enhancements support the scientific thinking and understandings of students with verbal learning disabilities associated with executive function disorders.
- Boston Schoolyard Initiative 2007-2008
- Pilot teacher and provided feedback on the development of *Science in the Schoolyard*, outdoor curriculum guides supported by the Lawrence Hall of Science, University of California, Berkeley, FOSS developers.