

## Angela Marie Calabrese Barton

Curriculum Vitae (January 2018)

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Angela Calabrese Barton is a professor in the Department of Teacher Education at Michigan State University. Her research is grounded in the intersections of teaching and learning science with an emphasis on equity and social justice. Her recent work takes place within three interrelated strands: 1) Working within the intersection of formal/informal education in support of understanding and designing new possibilities for equitably consequential teaching and learning; 2) designing teaching learning tools and experiences that promote more expansive learning outcomes, such as critical agency, identity work, and social transformation (as grounded within expanding disciplinary expertise); and 3) methodologies for embracing authentic “research + practice” work that attends to practitioner and youth voice, and critically engages the goals of equity and justice.

## EDUCATION & EMPLOYMENT HISTORY

### Education

- Ph.D. 1995            *Curriculum, Teaching and Educational Policy*. Michigan State University. Emphases and comprehensive graduate level coursework and research in (1) teaching and teacher education, science education, and qualitative research (College of Education); and (2) physical chemistry (College of Natural Sciences).
- B.S. 1990            *Chemistry*. University of Notre Dame (with honors)

### Professional Appointments

- 2009 –            *Professor*, Department of Teacher Education, Michigan State University. Tenured.  
*Core Faculty Member*, Center for Gender in Global Context, Michigan State University, 2011-  
*University-Community Senior Fellow*, Michigan State University, 2013-
- 2006 – 2009    *Associate Professor*, Department of Teacher Education, Michigan State University, Tenured.
- 1999-2001    *Associate Professor*, Department of Curriculum & Instruction, University of Texas at Austin, Austin, TX, Tenured, Fall 2000.
- 1996 - 2006    *Associate Professor of Science Education and Director of Science Education Programs*, Department of Mathematics, Science and Technology Teachers College, Columbia University, NY, NY, Tenured, 2001. Assistant Professor of Science Education, 1996-1999 [on leave 1999-2001].

- July 1998      *Visiting Scholar*, Ali Institute of Education, Lahore, Pakistan.
- 1995-1996    *Assistant Professor*, Department of Curriculum and Teaching, School of Education, Hofstra University, Hempstead, NY, Tenure-track.
- 1992-1994    *Instructor*, Department of Chemistry, Lansing Community College, Lansing, MI.
- 1990-1991    *Chemist*, Diagnostic Enzymes Division, Genzyme Corporation, Cambridge, MA.

## HONORS, AWARDS AND FUNDING

### Honors and Awards

- 2017            Fellow of the American Education Research Association (Class of 2017)
- 2015            WT Grant Foundation Distinguished Fellow (2015-2017)
- 2015            Beal Distinguished Faculty Award (Research, Teaching & Service), Michigan State University
- 2014            Outstanding Reviewer for the *American Education Research Journal*
- 2014            Service-Learning and Civic Engagement Faculty Award, Michigan State University
- 2014            Outstanding Dissertation Award, National Association for Research in Science Teaching, awardee: Daniel Birmingham (co-advised with Prof. Anne-Lise Halvorsen)
- 2013            American Education Research Association's Division B (Curriculum) Award for Outstanding Book of the Year (Tan, E. & Calabrese Barton, A. *Empowering Science and Mathematics Education in Urban Schools*, University of Chicago Press)
- 2013            Choice Magazine: CHOICE Outstanding Academic Title Award (Tan, E. & Calabrese Barton, A. *Empowering Science and Mathematics Education in Urban Schools*, University of Chicago Press)
- 2012            Magrath APLU Community Engagement Exemplary Program Award: Green Energy Technology in the City
- 2012            National Afterschool Innovator Award MetLife Foundation: GET City! (with the Boys and Girls Club of Lansing)
- 2012            Michigan State University Outreach Scholarship Community Engagement Award
- 2010            American Education Research Association's Informal Education Special Interest Group, Outstanding Research Award
- 2010            Program of the Year: Michigan Council. Green Energy Technologies in the City (a collaborative program with the Boys and Girls Club of Lansing)
- 2009            American Education Research Association's Division G (Social Contexts of Education) Award for Research Leading to Transformations of Social Contexts
- 2009            Best Paper of the Year Award for *Cultural Studies in Science Education* [Tan, E. & Calabrese Barton A. (2008). Unpacking science for all through the lens of identities-in-practice. *Cultural Studies of Science Education*, 3(1), 43-71]

- 2004 American Education Research Association's Division K (Teaching & Teacher Education) Award for Exemplary Research (*Re/thinking Scientific Literacy*, w/ W. M. Roth, NY, NY: Psychology Press.)
- 2004-2005 Dean's Fellow for Research in Diversity, Teachers College Columbia University
- 2003 American Education Studies Association's Critics Choice Award (*Teaching Science for Social Justice*, Teachers College Press, 2003)
- 2002 Dean's Technology Award, Teachers College Columbia University
- 2000 Early Career Award, National Association for Research in Science Teaching
- 2000 Dean's Technology Award, College of Education, University of Texas at Austin
- 1999 Kappa Delta Pi Research Award (Teaching and Teacher Education), American Education Research Association, Division K
- 1998-2003 Career Award, National Science Foundation
- 1996-1998 National Academy of Education Spencer Fellow
- 1995 Outstanding Dissertation Award, Michigan State University, Department of Teacher Education, College of Education

## **Funding: Grants & Fellowships**

### **Awarded (Currently Funded)**

*Research in Service to Practice: Equitably Consequential Making among Youth from Historically Marginalized Communities.* Principle Investigator. Co-PIs include: Edna Tan and Scott Calabrese Barton. National Science Foundation. \$1.4M. DRL 1712834, 8/2017 – 8/2021.

*Science Learning + Partnerships: Partnering for Equitable STEM Pathways for Minoritized Youth.* US-based Principle Investigator. UK-based Principle Investigator: Louise Archer. Co-PIs include: Emily Dawson, Carmen Turner and Lynn Dierking. US/UK Initiative with the Wellcome Trust, National Science Foundation, and the Economic and Social Research Council of the UK. DRL 1647033. \$2.3M. 3/1/2017-3/1/2021.

*Spartan Woot Wall Day!* Be Spartan Green Student Project Fund. Sustainability at MSU. \$5,000. Awarded November 2016.

*The Makerspace Movement: Sites of Possibilities for Promoting Equitable Opportunities to Learn and Pursue STEM among Underrepresented Youth: Distinguished Fellows Application.* WT Grant Foundation. \$200,000. Awarded October 2015.

*Tools for Teaching and Learning Engineering Practices: Pathways Towards Productive Identity Development in Engineering [I-Engineering].* Principle Investigator. Principle Investigator. Co-PIs include: Edna Tan & Scott Calabrese Barton. National Science Foundation, DRK 12 Program. \$1,307,460. DRL #1502755.

### **Awarded (Completed)**

*Making for Change: Becoming Community Engineering Experts through Makerspaces and Youth Ethnography,* National Science Foundation, Principle Investigator. Edna Tan, co-PI. DRL #1421116, \$299,999. 9/2014- 12/2017

*Youth Access & Equity Research & Practice Agenda* [a planning grant]- Collaborative proposal to the National Science Foundation and the Wellcome Trust [UK] with Louise Archer (Kings College) and Lynn Dierking (Oregon State University). \$99,000. 1/2015-12/2015.

*InvestigAction: Underrepresented Middle School Youth Becoming Community Engineering Experts*, MSU, CREATE 4 STEM. Principle Investigator. Co-PIs: Scott Calabrese Barton, Danny Caballero, & Edna Tan. \$100,000. 1/2014-5/2015

*Improving Science Teaching & Learning: Studying How Beginning Elementary Teachers Notice and Respond to Students' Scientific Sense-making*, co- Principle Investigator. PI: Christina Schwarz. National Science Foundation, 9/2013-8/2016, \$499,997.

*Making Healthy Food and Activity Choices in GET City*, Michigan Fitness Foundation. co-Principle Investigator, Kim Chung, PI. 1/2013-5/2014, \$94,482.

*Full-Scale Development: Science STARS-Nurturing urban girls' identities through inquiry-based science*, DRL 1114481, University of Rochester/National Science Foundation. Co-Principle Investigator. PI: April Luehmann (University of Rochester), 9/1/2011 – 8/31/2016, \$307,982.

*Supplemental: Club 2 School: Rethinking the STEM pipeline*, National Science Foundation, HRD #0936692. Principle Investigator. Co-PI: Edna Tan, 9/1/2010 – 8/31/2012, \$96,242 (awarded, September 2010)

*Club 2 School: Rethinking the STEM pipeline*, National Science Foundation, HRD #0936692, Principle Investigator. Co-PI: Edna Tan, 9/1/2009 – 8/31/2012, \$499,995

*Noyce Phase II: Teachers for a New Era*, National Science Foundation DUE #833278. Principle Investigator, Co-PI: Gail Richmond, 9/15/2008 – 8/30/2011, \$500,000

*Ecologies of Teacher – Parental Engagement: An Investigation into Teacher Learning about Parental Engagement in Science and Mathematics Education*, Spencer Foundation. Principle Investigator. Co-PI: Corey Drake, 6/1/2008 – 5/30/2009, \$40,000

*Green Energy Technologies in the City*, National Science Foundation, Award # 0737642. Principle Investigator. Co-PI: Scott Calabrese Barton & Carmen Turner, 10/1/2007 – 9/30/2011, \$899, 995

*Choice, Control and Change: A Middle School Science Curriculum for the Prevention of Overweight Children*, National Institutes of Health, Subcontract to Teachers College Columbia University. Co-Principle Investigator. PI: Isobel Contento (Teachers College), 10/1/2007 – 8/1/2008, \$27,000

*Urban Middle School Girls' Science Practices*, National Science Foundation, Award #0429109 Principle Investigator. Co-PI: Ann Rivet. [Supplemental funding, awarded June 2008, for \$65,567], 7/1/2004 – 8/30/2008 [supplemental through 2/28/09], \$499, 334

*Improving Urban Science Education in New York City*, Hearst Foundation. *Principle Investigator. May 2005 – May 2006, \$200,000*

*Urban Students Practices of Science in Differing Urban Communities*, Spencer Foundation Principle Investigator. January 2004 – December 2004, \$35,000

*SLC Catalyst: Science of Learning in Urban Educating Institutions*. Co-Principle Investigator. PI: Roger Anderson. National Science Foundation, Award # 0350288, Oct 1, 2003- Oct 1, 2004, \$150,475

*I USE Science!* Bristol Myers Squibb Foundation, January 2002 – December 2004, \$225,000

*Science Education for Political Empowerment and Social Change*, Spencer Foundation.

Principle Investigator. Co-PI: Rubina Zahur. (Small Grants Program), March 2000 – March 2001, \$35,000

*Science Education Reform and Parents in Urban Poverty: A Relational Systems Approach*, National Science Foundation, Award #9980592. Principle Investigator. Co-PI: Margery Osborne & Corey Drake, 2000-2003, \$654,000

*Science Education and Economically Disadvantaged Children*, National Science Foundation, CAREER Award #0096032. Principle Investigator. 1998-2003, \$500,000

*Linking Science Literacy and Nutrition Literacy for Elementary Inner-City Children*. Co-Principle Investigator, PI: Isobel Contento, National Institutes of Health, 1997-2004, \$688,000 (1997-2000), and \$650,000 (2001-2004)

*Science Education and Homeless Children*, National Academy of Education Spencer Postdoctoral Research Fellowship, 1996-1998, \$40,000

## RESEARCH AND PUBLICATION

\* indicates peer review

Δ indicates publications with undergraduate or graduate students

§ indicates publications with middle school or high school student

lead author is listed first unless otherwise noted as equal contribution

### Books

1. **Calabrese Barton, A.** & Tan, E. (in production). *Equity and Making*. New York: Teachers College Press.
2. \*Tan, E. & **Calabrese Barton, A.** (2012). *Teaching Science & Mathematics for Empowerment in Urban Settings*. University of Chicago Press. This text won the 2013 AERA Division B Outstanding Book Award, and the 2013 Choice Magazine Outstanding Academic Title Award.
3. \*Basu, S. J., **Calabrese Barton, A.**, & Tan, E. (2011). *Democratic Science Teaching: Building the Expertise to Empower Low-Income Minority Youth in Science: Building the Expertise to Empower Low-income Minority Youth in Science* (Vol. 3). Springer.
4. \*Roth, W-M. & **Calabrese Barton, A.** (2004). *Rethinking scientific literacy*. New York: Psychology Press.
5. \***Calabrese Barton, A.** (2003). *Teaching science for social justice*. New York: Teachers College Press.
6. \***Calabrese Barton, A.** & Osborne, M. D. (Eds.) (2001). *Teaching science in diverse settings: Marginalized discourses and classroom practice*. New York: Peter Lang.
7. \***Calabrese Barton, A.** (1998). *Feminist science education*. New York: Teachers College Press.

## Commissioned White Papers

1. \***Calabrese Barton, A.** (2012). *Identity Research in Science Education: Implications for Integrated Experiences & Best Practices*. A paper commissioned by the National Academy of Science Board on Science Education.
2. \***Calabrese Barton, A.**, Tan, E., & Calabrese Barton, S. (2011). *Becoming Community Science Experts in Green Energy Technologies*. White paper for NSF sponsored symposium on youth motivation in STEM Careers. September, 2011.

## Refereed Articles

### Submitted

1. Calabrese Barton, A. & Tan, E. (under review). Designing for rightful presence in STEM: Community ethnography as pedagogy as an equity-oriented design approach. Submitted to the *Journal of the Learning Sciences*.
2. \*Tan, E. & **Calabrese Barton, A.** (under review). “Trying to solve darkness”: Critical pedagogy of place and intersectionality in community-based STEM-rich making with youth from non-dominant communities. *Equity and Excellence in Education*. Submitted August 2017.
3. \*Tan, E. & **Calabrese Barton, A.** (revised and resubmit). Hacking a path in and through STEM: How Youth navigate and transform the landscapes of STEM. Submitted to *Harvard Education Review*. R&R issues September 2017.

### Accepted/Published

1. Haverly, C., Schwarz, C., **Calabrese Barton, A.**, & Braatan, M. (accepted with minor revisions). “Making Space”: How Two Beginning Teachers Create Opportunities for Equitable Sense-Making in Elementary Science. *Journal of Teacher Education*.
2. \*Schenkel, K., **Calabrese Barton, A.** & Tan, E. (accepted with revisions). Framing equity through a close examination of critical science agency. Submitted to *Cultural Studies in Science Education*, revisions submitted July 2017.
3. \***Calabrese Barton, A.** & Tan, E. (accepted). A longitudinal study of equity-oriented STEM-rich making among youth from historically marginalized communities. *American Education Research Journal*. Accepted fully January 2018.
4. \*Tan, E., **Calabrese Barton, A.**, & Schenkel, K. (accepted). Equity and the maker movement: STEM-rich making with elementary aged youth in community settings. Submitted to *Science & Children*. Accepted fully December 2017.
5. \*§Birmingham, D. & **Calabrese Barton, A.** (2017). “But the science we do here matters”: Youth authored cases of consequential learning. *Science Education*, 101(5), 818-844.
6. Δ\*Greenberg, D. & **Calabrese Barton, A.** (2017). “For Girls to Feel Safe”: Preteen Women’s Critical Community-Informed Engineering Design for Sexual Assault Prevention. *Girlhood Studies*.
7. Δ\***Calabrese Barton, A.** Tan, E., & Greenberg, D. (2017). The Makerspace Movement: Sites of Possibilities for Equitable Opportunities to Engage Underrepresented Youth in STEM. *Teachers College Record*, 119(7).

8. \*Gutiérrez, K. & **Calabrese Barton, A.** (2015). Structure and agency in science education. *Journal of Research in Science Teaching* 52(4), 574-583. DOI 10.1002/tea.21229
9. \*Kissling, M. & Calabrese Barton, A. (2015). Place-Based Education: (Re)Integrating Ecology and Economy. *Bank Street Occasional Paper Series*.
10. \***Calabrese Barton, A.**, Birmingham, D., Sato, T., Calabrese Barton, S., & Tan, E. (2014). Youth as Community Science Experts in Green Energy Technologies. *After school matters* 18, 25-33.
11. \***Birmingham, D.** & **Calabrese Barton, A.** (2014). Putting on a green carnival: Youth taking educated action on socioscientific issues. *Journal of Research in Science Teaching* 51(3), 286-314. DOI: 10.1002/tea.21127
12. \***Tan, E.**, Kang, H. O'Neill, T. & **Calabrese Barton, A.** (2013). Desiring a career in STEM-related fields: How middle school girls articulate and negotiate between their narrated and embodied identities in considering a STEM trajectory. *Journal of Research in Science Teaching*, 50(10), p.1143-1179. DOI: 10.1002/tea.21123.
13. \***Kissling, M.** & **Calabrese Barton, A.** (2013). Interdisciplinary Study of the Local Power Plant: Cultivating Ecological Citizens. *Social Studies Research and Practice* 8(3), 128-142.
14. \***Calabrese Barton, A.** & Berchini, C. (2013). Pathways to Insideness: Teaching Science in Urban Settings. *Theory into Practice*, 52(1), 21-27. DOI: 10.1080/07351690.2013.743765
15. \***Tsurasaki, B.**, **Calabrese Barton, A.** & Tan, E. (2013). Boundary objects and powerful science teaching and learning. *Science Education*, 97(1):1-31.
16. \***McLaughlin, D.** & **Calabrese Barton, A.** (2013). Preservice Teachers' Uptake and Understanding of Funds of Knowledge in Elementary Science. *Journal of Science Teacher Education*. 24(1):13-36. DOI 10.1007/s10972-012-9284-1.
17. \***Calabrese Barton, A.**, Kang, H., Tan, E., O'Neill, T., & Brecklin, C. (2012). Crafting a Future in Science: Tracing Middle School Girls' Identity Work Over Time and Space. *American Education Research Journal*, doi: 10.3102/0002831212458142.
18. \***Calabrese Barton, A.** (2012). Citizen(s) science. A Response to "The Future of Citizen Science." *Democracy and Education* 20(2),12.
19. \***Rose, S.** & **Calabrese Barton, A.** (2012). Should Great Lakes City Build a New Power Plant? How Youth Navigate Complex Socioscientific Issues. *Journal of Research in Science Teaching* 49(5), 541-567.
20. \***Furman, M.** & **Calabrese Barton, A.** (2012). Learning to teach science in urban schools by becoming a researcher of one's own beginning practice. *Cultural Studies in Science Education* 7(1), 153-174.
21. \***Mallya, A.**, Mensah, F. M., Contento, I. R., Koch, P. A. and **Calabrese Barton, A.** (2012), Extending science beyond the classroom door: Learning from students' experiences with the *Choice, Control and Change (C3)* curriculum. *J. Res. Sci. Teach.*, 49: 244–269. doi: 10.1002/tea.21006
22. \***Lim, M.** & **Calabrese Barton, A.** (2010). Exploring insideness in urban children's sense of place. *Journal of Environmental Psychology*, 30, 328 – 337.
23. \***Calabrese Barton, A.** & Tan, E. (2010). The new green roof: Activism, Science and Greening the Community. *Journal of Canadian Journal of Science, Mathematics and Technology Education*, 10(3), 207 – 222.

24. \***Calabrese Barton, A.** & Tan, E. (2010). We be burnin: Agency, Identity and Learning in a Green Energy Program. *Journal of the Learning Sciences*, 19(2), 187-229.
25. \***Calabrese Barton, A.** & Upadhyay, B. (2010). Teaching and learning science for social justice: An Introduction to the special issue. *Equity & Excellence in Education*, 43(1), 1-5.
26. \* $\Delta$ Contento, I. R., Koch, P. A., Lee, H., & **Calabrese-Barton, A.** (2010). Adolescents Demonstrate Improvement in Obesity Risk Behaviors after Completion of, Choice, Control & Change, a Curriculum Addressing Personal Agency and Autonomous Motivation. *Journal of the American Dietetic Association*, 110(12), 1830-1839.
27. Tan, E. & **Calabrese Barton, A.** (2010). Transforming science learning and student participation in 6<sup>th</sup> grade science: A case study of an urban minority classroom. *Equity & Excellence in Education*, 43(1), 38-55.
28. \* $\Delta$ Basu, S. J. & **Calabrese Barton, A.** (2010). A researcher-student-teacher model for democratic science pedagogy: Connections to community, shared authority, and critical science agency. *Equity & Excellence in Education* 43(1), 72-87.
29. \* $\Delta$ Basu, S.J., **Calabrese Barton, A.**, Locke, D. & Clairmont, N. (2009). Developing a framework for critical physics agency through case study. *Cultural Studies in Science Education*, 4(2), 345-371.
30. \* $\Delta$ Roushias, C., **Calabrese Barton, A.**, & Drake, C. (2009). The design and development of a multimedia case-based environment on parental engagement. *Journal of Educational Media International*, 46(1), 37-52.
31. \* $\Delta$ **Calabrese Barton, A.** & Tan, Ed. (2009). Funds of knowledge, discourses and hybrid space. *Journal of Research in Science Teaching*, 46(1), 50-73.
32. \* $\Delta$ **Calabrese Barton, A.**, Tan, E. & Rivet A. (2008). Creating hybrid spaces for engaging school science among urban middle school girls. *American Education Research Journal*. 45, 68-103.
33. \* $\Delta$ Tan, E. & **Calabrese Barton A.** (2007). From peripheral to central, the story of Melanie's metamorphosis in an urban middle school science class. *Science Education* 92(4), 567-590.
34. \* $\Delta$ Tan, E. & **Calabrese Barton A.** (2008). Unpacking science for all through the lens of identities-in-practice. *Cultural Studies of Science Education*, 3, 43-71.
35. \*Koch, P., **Calabrese Barton, A.**, Contento, I., & Crabtree, M. (2008). Farm to Table and beyond: Helping Students Make Sense of the Global Food System. *Science Scope*, 31(9), 36-39.
36. \* $\Delta$ Saubeli, W. Lee, H., Contento, I., Koch, P., & **Calabrese Barton, A.** (2008). Enhancing Personal Agency and Competence in Eating and Moving: An Outcome Evaluation of Choice, Control, and Change (C3), an Inquiry-Based Middle School Science Curriculum to Reduce Obesity Risk. *Journal of Nutrition Education and Behavior*, 40 (4) S36-S36.
37. \* $\Delta$ Hagiwara, S. & **Calabrese Barton, A.** (2007). Culture, food, and language: Perspectives from immigrant mothers in school science. *Cultural Studies of Science Education*, 2(2), 475-515.



38. \*ΔLee, H., Contento, I., Sauberli, W., Koch, P., & **Calabrese Barton, A.** (2007). Using science education to move middle schoolers toward more healthful food and activity choices: An outcome evaluation of Choice, Control, & Change. *Journal of Nutrition Education and Behavior*, 39(4), 96-100.
39. \*ΔBasu, S. J. & **Calabrese Barton, A.** (2007). Urban students' sustained interest in science. *Journal of Research in Science Teaching*, 44(3), 466-489.
40. \*ΔKoch, P., **Calabrese Barton, A.** & Whittaker, R. (2007). Choice, Control and Change: Using scientific evidence to promote healthful food and activity choice. *Science Scope*, 31(3), 16-19.
41. \*ΔFurman, M. & **Calabrese Barton, A.** (2006). Voice in an Urban Science Video Project. *Journal of Research in Science Teaching*, 43(7), 667-695.
42. \*ΔLim, M. & **Calabrese Barton, A.** (2006). Science learning and a sense of place in an urban middle school. *Cultural Studies in Science Education* 1(1), 107-142.
43. \*Δ**Calabrese Barton, A.** & Vora, P. (2006). Improving urban science education: New roles for teachers, students and researchers [book review]. *Science Education*, 90(2), 379-381.
44. \***Calabrese Barton, A.** & Lee, O. (2006). A Call to Action. *Journal of Research in Science Teaching* 43(9), 875-878.
45. \***Calabrese Barton, A.** (2005). Editorial: The Role of Agency in Improving Teaching and Learning Science in Urban Settings. *School Science and Mathematics*. 105(7), 333-335.
46. \*ΔPerez, G., Drake, C. & **Calabrese Barton, A.** (2005). The role of presence in parental engagement in urban science education. *American Education Research Journal* 42(3), 465-498.
47. \*ΔUphadyay, B., **Calabrese Barton, A.** & Zahur, R. (2005). Teaching science for political and social change. *Science Education* 89(5), 725-744.
48. \*Δ**Calabrese Barton, A.**, Koch, P., Contento, I., & Hagiwara, S. (2005). From food production to global sustainability: Children's ideas about the food system. *International Journal of Science Education* 27(10), 1163-1186.
49. \*ΔO'Neill, T. & **Calabrese Barton, A.** (2005). Student ownership in an urban middle school science video project. *School Science and Mathematics*, 105(6), 292-302.
50. \*Δ**Calabrese Barton, A.**, Drake, C. Perez, G. & St. Louis, K. (2004). Ecologies of parental engagement in urban education. *Educational Researcher*, 33(4), 3-12.
51. \*ΔZacharia, Z. & **Calabrese Barton, A.** (2004). Understanding urban children's beliefs about science. *Science Education*, 88, 197-222.
52. \***Calabrese Barton, A.** (2003). Kobe's story: Doing science as contested terrain. *Qualitative Studies in Education*, 16(4), 533-552.
53. \***Calabrese Barton, A.** (2002). Urban science education studies: A commitment to equity, social justice and a sense of place. *Studies in Science Education*, 38, 1-38.
54. \*Δ**Calabrese Barton, A.** & Johnson, V. (2002). Truncating agency: Peer review and participatory research. *Research in Science Education*, 32, 191-214.

55. \* $\Delta$ Zahur, R. & **Calabrese Barton, A.** (2002). Science education for empowerment and social change: A case study of an urban teacher educator in Pakistan. *International Journal of Science Education*, 24(9), 899-917.
56. \***Calabrese Barton, A.** & Osborne, M. (2002). Urban girls' participation in informal science settings: Playing with identities and borders. *Curriculum and Teaching*, 16(2), 17-37.
57. \***Calabrese Barton, A.** & Tobin, K. (2002). Learning about transformative research through others' stories: What does it mean to involve "others" in science education reform? *Journal of Research in Science Teaching*. 39(2), 110-114.
58. \***Calabrese Barton, A.** & Tobin, K. (2001). Urban science education: A call to action. *Journal of Research in Science Teaching*. Issues 38(8) 843-847.
59. \***Calabrese Barton, A.** & Osborne, M. (2001). Homeplace and the Harshworld: A feminist re-reading of science and teaching students in poverty. *Journal of Curriculum Theorizing*, 17(4), 131-144.
60. \***Calabrese Barton, A.** (2001). Critical ethnography: Science education in urban settings: Seeking new ways of praxis through critical ethnography. *Journal of Research in Science Teaching*. 38(8), 899-918.
61. \***Calabrese Barton, A.** & McLaren, P. (2001). Capitalism, critical pedagogy, and urban science education: An interview with Peter McLaren *Journal of Research in Science Teaching*, 38(8), 847-859.
62. \* $\Delta$ **Calabrese Barton, A.**, Hinden, T., Contento, I., Tredeau, M., Hagiwara, S., & Yang, K. (2001). Underprivileged mothers' views on science. *Journal of Research in Science Teaching*, 38(6), 688-711.
63. \*Fusco, D. & **Calabrese Barton, A.** (2001). Re-presenting student achievement in science. *Journal of Research in Science Teaching*, 38(3), 337-354.
64. \* $\Delta$ **Calabrese Barton, A.** & Yang, K. (2000). The culture of power and science education: Learning from Miguel. *Journal of Research in Science Teaching*, 37(8), 871-889.
65. \***Calabrese Barton, A.** (2000). Preservice teachers developing ideas of multicultural science education. *Journal of Curriculum Studies*, 32(6), 797-820.
66. \***Calabrese Barton, A.** & Osborne, M. (2000). Building inclusive science in classrooms through oral histories. *Women's Studies Quarterly*, 28(1-2), 271-295.
67. \***Calabrese Barton, A.** & Darkside (2000). Autobiography in science education: Greater objectivity through local knowledge. *Research in Science Education*, 30(1), 23-42.
68. \* $\Delta$ Islas, A., Contento, I.R., Koch, P.D., Hagiwara, S., & **Calabrese Barton, A.** (2000). Food choice criteria in elementary school age children incorporating ecological concerns. *Appetite*, 34, 125.
69. \* $\Delta$ **Calabrese Barton, A.**, Johnson, V. & Nelson, L. (2000). Middle school partnerships: Adventurous teaming. *Middle School Journal*, 32(2), 39-44.
70. \***Calabrese Barton, A.** (1999). Learning to teach a multicultural science education through service learning: A case study. *Journal of Teacher Education*. 50(4), 303-312.
71. \***Calabrese Barton, A.** & Osborne, M. D. (1999). Re-examining lived experiences: Gender and radical constructivism. *Cybernetics and Human Knowing*, 6(1), 47-60.

72. \***Calabrese Barton, A.** (1998). Margin and center: Intersections of urban, homeless children and a pedagogy of liberation. *Theory into Practice*, 37(4), 296-305.
73. \***Calabrese Barton, A.** (1998). Reframing science for all and the politics of poverty. *Educational Policy* 12(5), 525-541.
74. \***Calabrese Barton, A.** (1998). Examining the social and scientific roles of invention in science education. *Research in Science Education* 28, 133-152.
75. \***Calabrese Barton, A.** (1998). Teaching science with homeless children: Pedagogy, representation and identity. *Journal of Research in Science Teaching* 34, 379-394.
76. \*Osborne, M. & **Calabrese Barton, A.** (1998). Constructing a liberatory pedagogy in science: Dilemmas and contradictions. *Journal of Curriculum Studies*, 30, 251-260.
77. \***Calabrese Barton, A.** & Osborne, M. D. (1998). Editorial: Marginalized discourses and science education. *Journal of Research in Science Teaching*, 34, 339-340.
78. \*Osborne, M. & **Calabrese Barton, A.** (1998). Editorial: Teaching margin or center: The Question of what constitutes liberatory practice in school subjects. *Theory Into Practice*, 37(4), 254-255.
79. \***Calabrese Barton, A.** (1997). Liberatory science education: Weaving connections between feminist theory and science education. *Journal of Curriculum Inquiry* 27(2), 141-164.
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### Handbook Chapters

1. Windschitl, M. & **Calabrese Barton, A.** (2016). Rigor and Equity by Design: Locating a Set of Core Practices for the Science Education Community. C. Bell & D. Gitomer. (Eds.). *American Education Research Association's Handbook of Research on Teaching*. 5<sup>th</sup> Edition. Pp. 1099-1158.
2. **Calabrese Barton, A.**, Tan, E. & O'Neill, T. (2014). Science learning in urban science education: New conceptual tools and stories of possibilities. S. Abell and N. Lederman (Eds.). *Handbook of Research in Science Teaching*, Volume 2. New York: Routledge. p. 246-265.
3. **Calabrese Barton, A.** & Tan, E. (2009). The Evolution of Da Heat: Making a Case for Scientific and Technology Literacy as Robust Participation. (pp. 329-346). In D. Hodson (Ed.). *International Technology Handbook*. Amsterdam: Sense Publishers.
4. **Calabrese Barton, A.** & Brickhouse, N. (2006). Engaging girls in science. C. Skelton, B. Francis & L. Smulyan. *Gender and Education Handbook*. London: Sage Publications.

5. **Calabrese Barton, A.** (2006). Science learning in urban science education. S. Abell and N. Lederman (Eds.). *Handbook of research in science teaching*. NJ: Lawrence Erlbaum Associates, Inc. p. 319-343.

### Book Chapters

1. § Nazar, C. R., **Calabrese Barton, A.**, & Rollins, A. (2017). faiTh'S fancy haT. *Reframing Science Teaching and Learning: Students and Educators Co-Developing Science Practices in and Out of School*, 97.
2. Bang, M., Brown, B., **Calabrese Barton, A.**, Roseberry, A., & Warren, B. (2016). Toward More Equitable Learning in Science: Expanding Relationships Among Students, Teachers, and Science Practices. In C. Schwarz, C. Passmore, & B. Reiser. (ed.). National Science Teachers Association Press.
3. § Shin, M., **Calabrese Barton, A.**, & Johnson, L. (2016). "I am an innovator:" Quahn's Counter-narrative of Becoming in STEM. Chapter in S. Marx (Ed). *Qualitative Research in STEM*. New York: Routledge.
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5. \***Calabrese Barton, A.** (2015). Taking educated action with and in science. In M. Mueller (Ed.) *Eco-Justice, Citizen Science & Youth Activism*. Netherlands: Springer International Publishing.
6. \***Calabrese Barton, A.** & Tan, E. (2014). It changed out lives: Activism, Science & Greening the Club/Community. In L. Bencze (Ed.) *Activist Science & Technology Education*. Netherlands: Springer International Publishing.
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8. Tan, E. & **Calabrese Barton, A.** (2012). Becoming an expert: Transgressing boundaries for identities in science. In M. Varelas (Ed.). *Identities and Science Education*. Rotterdam: Sense Publishers.
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11. Pow, J., DiTomasso, R., Frink, J. & **Calabrese Barton, A.** (2009). Cultural practices and disciplinary Learning: Science. (pp. 139-158). Youth-full productions: In N. Ayers (Ed.). *Cultural Practices and Constructions of Content and Social Spaces*. New York: Peter Lang.
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13. **Calabrese Barton, A.**, Rubel, L., Furman, M., and Lopez-Freeman, M. (2009). Preparing science teachers for diverse audiences. Report to the Knowles Foundation: Preparation and support of new science teachers. Rotterdam: Sense Publishers.
14. **Calabrese Barton, A.** & O'Neill, T. (2008). Counter-Storytelling in Science: Authoring a Place in the Worlds of Science and Community. In R. Levinson (Ed). *Creative Encounters: Science and Art*. London: Wellcome Trust.
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16. Rivera, M. & **Calabrese Barton, A.** (2005). Where is the joy? Social justice and reform in elementary school science. D. Keiser & N. Michelli (Eds). *Reform and social justice*. New York: Routledge.
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18. Koch, J. & **Calabrese Barton, A.** (2000). A meeting of two cultures: The experience of facilitating a teacher enhancement project for Egyptian high school science teachers. In S. Abell (Ed.) *International science education*. (pp. 157-170). Dordrecht, Netherlands: Kluwer Academic Press.
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20. Moodley, S. & **Calabrese Barton, A.** (1999). Urban science education and children in poverty. In M. Alampi & P. Comeau (Eds.) *The American education annual 1997-1998: Trends and issues in the educational community* (p. 697-709). Detroit: Gale Press.

#### **National and International Conference Papers/Proceedings (Peer Reviewed)**

1. **Calabrese Barton, A.** & Tan, E. (2017). Designing for Rightful Presence in Middle School STEM. Fablearn Conference, Stanford, CA.
2. **Calabrese Barton, A.** & Tan, E. (2017). Equitable and consequential becoming in STEM: How youth bridge science and community. A paper presented at the European Science Education Research Association. August 2017. Dublin, Ireland.
3. **Calabrese Barton, A.** & Tan, E. (2017). Community ethnography as pedagogy in equity-oriented STEM-rich making. A paper presented at the European Science Education Research Association. August 2017. Dublin, Ireland.
4. Balzer, M., **Calabrese Barton, A.**, & Greenberg, D. (2017). YPAR: Youth Action Council Designing for Equity in Making. Presented at the NARST Pre-conference workshop on Participatory Methodologies. April 2017. San Antonio, Texas.
5. Greenberg, D., **Calabrese Barton, A.**, Tan, E., & Keenan, S. (2017). Critically Examining What We Mean by Youth Voice in STEM. A paper presented at the American Education Research Association. April 2017. San Antonio, Texas.

6. **Calabrese Barton, A.**, Tan, E., Greenberg, D., & Keenan, S. (2017). Equitably consequential making by, for and with marginalized youth. A paper presented at the American Education Research Association. April 2017. San Antonio, Texas.
7. Balzer, M., **Calabrese Barton, A.**, & Greenberg, D. (2016). We're the Bosses: Youth Action Council Designing for Equity in Making. Fablearn Conference, Stanford, CA.
8. Tan, E., **Calabrese Barton, A.**, Turner, C. & Shin, M. (2016). Probing Participatory Partnerships with Community Ethnography. Fablearn Conference, Stanford, CA.
9. Keenan, S., Greenberg, D., **Calabrese Barton, A.**, Calabrese Barton, B., Lawson, P., & Harden, St. (2016). Creative Connections: Disrupting the Norm in a community-based makerspace. Paper presented at the Digital Media and Learning Conference, Irvine, CA.
10. Nazar, C. **Calabrese Barton, A.**, Latham, A., Rollins, A., & Morris, C. (2016). Expansive Learning through Counternarratives in Co-Constructed: Multimodal Cases of Engineering Work over Time. Paper presented at the Digital Media and Learning Conference, Irvine, CA.
11. Tan, E., & **Calabrese Barton, A.** (2016). "Make your dream a reality": Mapping the nodes of criticalities in African-American boys' making endeavors. Paper presented at the Digital Media and Learning Conference, Irvine, CA.
12. **Calabrese Barton, A.**, Shin, M., Greenberg, D., Nazar, C. D., & Tan, E. (2016, April). Innovating With Scientists, Engineers, and Community Members: Youths' Engineering Design and Networks of Experts. Presented at American Education Research Association annual conference, Washington, DC.
13. **Calabrese Barton, A.** & Tan, E., (2016). Mobilities of Criticality. A paper presented at the International Conference of the Learning Sciences. Singapore.
14. Tan, E., **Calabrese Barton, A.**, Faircloth, B. (2016). Exploring How a "Judgment-Free" Makerspace Supports African American Girls' Identity Work as Community Makers and Engineers. Presented at American Education Research Association annual conference, Washington, DC.
15. Shin, M., **Calabrese Barton, A.**, Greenberg, D., Nazar, C. D., & Tan, E. (2016, April). Youth Engagement and Mobilities of Learning During Making in an Equity-Oriented Makerspace. Presented at American Education Research Association annual conference, Washington, DC.
16. **Calabrese Barton, A.** & Tan, E. (2015, September). Hacking a path in and through STEM: Unpacking the STEM identity work of youth from historically underrepresented backgrounds Presented at European Science Education Research Association, Helsinki, Finland.
17. Shin, M., **Calabrese Barton, A.**, Greenberg, D., Nazar, C. D., & Tan, E. (2015, April). *Little Kids Can Do Ginormous Works: Youth's Engineering Design and Identity Work*. Presented at American Education Research Association annual conference, Chicago, IL.
18. Nazar, C. D., **Calabrese Barton, A.**, Shin, M., Greenberg, D., Tan, E. (2015, April). *Hybrid Practices and Developing Expertise in Engineering Among Middle School Students*. Presented at American Education Research Association annual conference, Chicago, IL.
19. Greenberg, D., **Calabrese Barton, A.**, Shin, M, Nazar, C. D., & Tan, E. (2015, April). *Innovators Together: Collaborative, Strategic Resource Use and Movement for Identity Work in After-School Science*. Presented at American Education Research Association

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20. **Calabrese Barton, A.**, Nazar, C. D., Shin, M., Greenberg, D., & Tan, E. (2015, April). *Authoring Identity Pathways among Youth from Non-Dominant Backgrounds through Engineering for Sustainable Communities*. Presented at National Association for Research in Science Teaching annual conference, Chicago, IL.
  21. **Calabrese Barton, A.**, Tan, E., Sato, T., Birmingham, D., & Shin, M. (2015, February). *Becoming Community Science Experts*. Presented at CREATE for STEM Mini Conference 2015, East Lansing, MI.
  22. **Calabrese Barton, A.**, Tan, E., Birmingham, D., Sato, T., & Shin M. (2014). *Identity Pathways: Becoming a Community Engineering Expert*. International Conference of the Learning Sciences. Boulder, CO.
  23. **Calabrese Barton, A.** & Krajcik, J. (2014). *Developing High Quality Reviews for the Journal of Research in Science*. Pre-conference workshop. National Association for Research in Science Teaching. Pittsburgh, PA.
  24. Birmingham, D. & **Calabrese Barton, A.** (2014). *Foregrounding Youth Narratives of Informal Science Learning: A Professional Development Model*. National Association for Research in Science Teaching. Pittsburgh, PA.
  25. Birmingham, D. & **Calabrese Barton, A.** (2014). *"But the Science We Do Here Matters": Youth Sharing Visions of Civic Engagement with Science*. National Association for Research in Science Teaching. Pittsburgh, PA.
  26. Shin, M. & **Calabrese Barton, A.** (2014). *"I Can Do Science!": Wrestling with Stereotypes and Science Identity*. National Association for Research in Science Teaching. Pittsburgh, PA.
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  28. **Calabrese Barton, A.** & Krajcik, J. (2013). *Developing High Quality Reviews for the Journal of Research in Science*. Pre-conference workshop. European Science Education Association, Nicosia, Cyprus.
  29. Birmingham, D. & **Calabrese Barton, A.** (2013). *Learning from Stories of Youths' Informal Science Learning Experiences*. National Association for Research in Science Teaching. Rio Mar, Puerto Rico.
  30. O'Neill, T. Tan, E., & **Calabrese Barton, A.** (2013). *Viewing School Science through Our Eyes: Middle School Girls' Vision for what School Science Could Be*. National Association for Research in Science Teaching. Rio Mar, Puerto Rico.
  31. Birmingham, D. & **Calabrese Barton, A.** (2013). *Girls' Stories of Informal Science Learning Experiences*. Annual American Education Research Association, San Francisco, CA.
  32. **Calabrese Barton, A.** & Krajcik, J. (2012). *Developing High Quality Reviews for the Journal of Research in Science*. Pre-conference workshop. National Association for Research in Science Teaching. Indianapolis, IN.
  33. Kang, H., Tan, E., Calabrese Barton, A. (2012). *Recognizing Multiple Identity Trajectories in Science That Urban Middle School Girls Author and Its Role in Science Learning*. A paper presented at the Annual American Education Research Association, Vancouver. British Columbia, Canada.

34. Sato, T. & **Calabrese Barton, A.** (2011). Horizontal and Vertical Learning Dimensions of Urban Youth Investigating Energy Efficiency. A paper presented at the National Association for Research in Science Teaching. Orlando, FL.
35. Rose, S. & **Calabrese Barton, A.** (2011). Saving Energy Means Saving a lot more Moolah!: The role of Economic and Scientific Discourses in Youths' Involvement in the Change a Light, Change Michigan. A paper presented at the National Association for Research in Science Teaching. Orlando, FL.
36. Lim, M., Tan, E., & Calabrese Barton, A. (2011). Moving the Equity Agenda Forward: Equity Research, Practice, and Policy in Science Education. A paper presented at the National Association for Research in Science Teaching. Orlando, FL.
37. Kang, H., **Calabrese Barton, A.**, & Tan, E. (2011). Urban Girls' Identity Trajectories through the Participation between Figured Worlds. A paper presented at the American Education Research Association. New Orleans, LA.
38. Kang, H., **Calabrese Barton, A.**, & Tan, E. (2011). The case of Diana: Understanding Identity Trajectories through the Participation between Figured Worlds. A paper presented at the National Association for Research in Science Teaching. Orlando, FL.
39. **Calabrese Barton, A.** (2010). "I'm a Make-a-Difference Expert": How Youth Author and Leverage on Identities for Strategic Participation in a Community-Based Science Program. A paper presented at the Annual American Education Research Association, Denver, CO.
40. Rose, S. & **Calabrese Barton, A.** (2010). "The Coal Plant Could Give People Jobs, But at the Same Time, It Could Pollute the Air": How Youth Reconcile Competing Discourses for Environmental Justice. A paper presented at the Annual American Education Research Association, Denver, CO.
41. **Calabrese Barton, A.** & Tan, E. (2010). Becoming an Expert: Transgressing Boundaries for Identities in Science. A paper presented at the Annual American Education Research Association, Denver, CO.
42. Berchini, C., **Calabrese Barton, A.** & Florio-Ruane, S. (2010). Discovering a "Discourse of Hope": Researching Beginners' Developing Identities as Teachers in Urban Classrooms. A paper presented at the Annual American Education Research Association, Denver, CO.
43. Tan, E. & **Calabrese Barton, A.** (2010). Transforming science learning and student participation in 6<sup>th</sup> grade science. A paper presented at the annual National Association for Research in Science Teaching Conference.
44. **Calabrese Barton, A.** & Krajcik, J. (2010). Publishing in JRST. Presented at the Annual American Education Research Association, Denver, CO.
45. O'Neill, T., Johnson, V. & **Calabrese Barton, A.** (2010). How Sense of Place Matters: Lessons Learned from the Implementation of an Interdisciplinary Place-Based Curriculum. A paper presented at the annual National Association for Research in Science Teaching Conference.
46. **Calabrese Barton, A.** (2009). Opportunities and Challenges of Equitable Science. National Association for Research in Science Teaching. Anaheim, CA.
47. **Calabrese Barton, A.** (2009). Grand Challenges and Great Opportunities: Presidential Speech Reaction Panel. National Association for Research in Science Teaching. Anaheim, CA.



48. Lim, M., Tan, E., & **Calabrese Barton, A.** (2009). Critical Science Agency: Science in the Making with and in Place. National Association for Research in Science Teaching. Anaheim, CA.
49. Hoyoken, H. & **Calabrese Barton, A.** (2009). From a “Hybrid Discourse” towards “Legitimate Peripheral Participation” National Association for Research in Science Teaching. Anaheim, CA.
50. **Calabrese Barton, A.** (2009). Coherence and Science Content Storylines in Science Teaching: Evidence of Neglect? Evidence of Effect? National Association for Research in Science Teaching. Anaheim, CA.
51. **Calabrese Barton, A.** & Rose, S. (2009). *Researching Identity Development as Evidence for Learning*. A paper presented as part of the ITEST PI meeting. February 2009.
52. **Calabrese Barton, A.** & Tan, E. (2008). We be Burnin’: Agency and Identity. A paper presented at the International Conference of the Learning Sciences. Utrecht, Netherlands.
53. **Calabrese Barton, A.**, Tan, E., & Lim, M. (2008). The role of place in science learning: Science as context and tool. A paper presented at the International Conference of the Learning Sciences. Utrecht, Netherlands.
54. **Calabrese Barton, A.** & Tan, E., (2008). Where da heat go. A paper presented at the annual American Education Research Association. New York, New York.
55. Tan, E., & **Calabrese Barton, A.** (2008). Identity and Learning. A paper presented at the annual National Association for Research in Science Teaching. Baltimore, MD.
56. Slaton, A. & **Calabrese Barton, A.** (2008). A practice of respect and science learning. A paper presented at the annual National Association for Research in Science Teaching. Baltimore, MD.
57. **Calabrese Barton, A.** & Tan, E. (2007). Transforming science learning & student participation in 6th grade science: A case study of an urban minority classroom. Paper presented at the annual National Association for Research in Science Teaching Conference. New Orleans, LA. April 2007.
58. Furman, M. & **Calabrese Barton, A.** (2007). Transformative Action Research and Learning to Teach. Paper presented at the annual National Association for Research in Science Teaching Conference. New Orleans, LA. April 2007.
59. Tan, E. & **Calabrese Barton, A.** (2007). Unpacking science for all through the lens of identities-in-practice. Springer Forum. Chicago, IL. (A pre-AERA conference).
60. Koch, P., Rutherford, Schwartz J., Barlow, Z., and **Calabrese Barton, A.** (2007) Connecting Natural and Human Systems Through Food Literacy. National Science Teachers Association, St. Louis, MO.
61. **Calabrese Barton, A.**, Tan, E., & Lim, M. (2007). The Role of Place in Science Learning Among Urban Middle School Girls. American Education Research Association, Chicago, IL.
62. **Calabrese Barton, A.** (2006). Advancing the Research Conversation: New Directions for Science Teaching and Learning in Multicultural Contexts. Discussant remarks presented at the American Education Research Association, San Diego, CA.

63. Lim, M. & **Calabrese Barton, A.** (2006). Exploring Sense of Place of Urban Children. Paper presented at the American Education Research Association, San Diego, CA.
64. Basu, J. & **Calabrese Barton, A.** (2006). How Low-Income, Minority Students Express Agency in a Rigorous, Engaging Ninth-Grade Conceptual Physics Classroom. A paper presented at the National Association for Research in Science Teaching. San Francisco, CA.
65. Furman, M. & **Calabrese Barton, A.** (2006). Making Meaning of Science Through Students' Worlds: The Use of Youth Genres and Pop Culture in a Student-Directed Science Documentary. A paper presented at the National Association for Research in Science Teaching. San Francisco, CA.
66. **Calabrese Barton, A.**, Vora, P., & Johnson, V. (2006). Charting the Course in Urban Science Education: Project Yuva and Teacher Learning.
67. Tan, E. & **Calabrese Barton, A.** (2006). Understanding How Girls' Identities Shape Their Science Practices: The Stories of Amelia and Ginny. A paper presented at the National Association for Research in Science Teaching. San Francisco, CA.
68. Groome, M., **Calabrese Barton, A.**, & Rivet, A. (2006). On the Edge: Two Girls Negotiate Participation in a Middle School Science Classroom. A paper presented at the National Association for Research in Science Teaching. San Francisco, CA.
69. Rivet, A., & **Calabrese Barton, A.** (2006). Urban Girls' Science Practices: Implications for Classroom Instruction. A paper presented at the National Association for Research in Science Teaching. San Francisco, CA.
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71. **Calabrese Barton, A.** & Tan, Ed. (2006). Merging Science Practices and Creating hybrid spaces. A paper presented at the National Association for Research in Science Teaching. San Francisco, CA.
72. O'Neill, T. & **Calabrese Barton, A.** (April, 2004). *Student ownership in urban middle school science*. A paper presented at the American Education Research Association, San Diego, CA.
73. **Calabrese Barton, A.** (April, 2004). *Preparing a research trajectory in urban science education*. A paper presented at the American Education Research Association, San Diego, CA.
74. O'Neill, T. & **Calabrese Barton, A.** (April, 2004). *Student ownership and identity in informal science learning*. A paper presented at the National Association for Research in Science Teaching, Vancouver, Canada.
75. Ortiz, L. & **Calabrese Barton, A.** (April, 2004). *Urban youth's science practices*. A paper presented at the National Association for Research in Science Teaching, Vancouver, Canada.
76. Lim, M. & **Calabrese Barton, A.** (April, 2004). *A sense of place and urban middle school youth learning in science*. A paper presented at the National Association for Research in Science Teaching, Vancouver, Canada.

77. Johnson, V. & **Calabrese Barton, A.** (April, 2004). *Social justice and urban middle school science reform*. A paper presented at the National Association for Research in Science Teaching, Vancouver, Canada.
78. Rivera, M. & **Calabrese Barton, A.** (April, 2004). *Social justice and an ethic of caring in urban middle school science education*. A paper presented at the National Association for Research in Science Teaching, Vancouver, Canada.
79. Ortiz, L. & **Calabrese Barton, A.** (April, 2003). *Authority in science: Making sense of students' science practices*. A paper presented at the American Education Research Association, Chicago, IL.
80. Rivera, M. & **Calabrese Barton, A.** (April, 2003). *Critical science inquiry in an urban middle school*. A paper presented at the American Education Research Association, Chicago, IL.
81. Ortiz, L. & **Calabrese Barton, A.** (March, 2003). *Urban middle school students' narrative authority: A case study of two contrasting students*. A paper presented at the National Association for Research in Science Teaching, Philadelphia, PA.
82. O'Neill, & **Calabrese Barton, A.** (March, 2003). *What urban middle school students teach us about science: An analysis of a youth generated multimedia production*. A paper presented at the National Association for Research in Science Teaching, Philadelphia, PA.
83. Basu, J. & **Calabrese Barton, A.** (March, 2003). *Students' inspiring science experiences: An examination of students' funds of knowledge in an urban middle school*. A paper presented at the National Association for Research in Science Teaching, Philadelphia, PA.
84. Roushias, C., **Calabrese Barton, A.**, & Drake, C. (March, 2003). *PARENTS: The design and implementation of a multimedia teacher learning tool*. A paper presented at the National Association for Research in Science Teaching, Philadelphia, PA.
85. Rivera, M. & **Calabrese Barton, A.** (March, 2003). *The case of Ruth: Critical scientific inquiry in urban middle school science*. A paper presented at the National Association for Research in Science Teaching, Philadelphia, PA.
86. Zacharias, Z. & **Calabrese Barton, A.** (April, 2001). *Making sense of urban middle school students attitudes towards progressive and critical science*, A paper presented at the American Education Research Association, Seattle, Washington.
87. **Calabrese Barton, A.**, Ermer, J. & Burkett, T. (April, 2001). *In their voices: Grounded science*. A paper to be presented at the American Education Research Association, Seattle, Washington.
88. **Calabrese Barton, A.**, Ermer, J. & Burkett, T. (March, 2001). *Economies of values: Urban youth doing science*. A paper to be presented at the National Association for Research in Science Teaching, St. Louis. MO.
89. **Calabrese Barton, A.** (March, 2001). *Urban science education and critical ethnography*. A paper to be presented at the National Association for Research in Science Teaching, St. Louis. MO.

90. Zacharias, Z. & **Calabrese Barton, A.** (April, 2000). *Urban middle school students attitudes towards progressive and critical science*, A paper presented at the National Association for Research in Science Teaching, New Orleans, LA.
91. **Calabrese Barton, A.** (April 2000). *Community-based science: Listening to Tanda, Kobe and Darkside*, A paper presented at the National Association for Research in Science Teaching, New Orleans, LA.
92. **Calabrese Barton, A.** (April 2000). *Lock-down: Urban youth and doing science*. A paper presented at the American Education Research Association, New Orleans, LA.
93. **Calabrese Barton, A.** & St. Louis, K. (April 2000). *Inner-city youth generating scientific communities*. A paper presented at the American Education Research Association, New Orleans.
94. **Calabrese Barton, A.** & Zahur, R. (April 2000). *Science for political empowerment and social change*. A paper presented at the American Education Research Association, New Orleans, LA.
95. **Calabrese Barton, A.**, Nelson, L. & Johnson, V. (April 2000). *Urban middle school partnerships*. A paper presented at the American Education Research Association, New Orleans, LA.
96. **Calabrese Barton, A.** (April 1999). *Empowering science teaching: Learning from the lives of urban children*. Presented at the American Education Research Association, Montreal, Canada.
97. **Calabrese Barton, A.** & Yang, K. (April 1999). *Multicultural science teacher education: Examining preservice teachers beliefs about multicultural science education..* Presented at the American Education Research Association, Montreal.
98. Yang, K. & **Calabrese Barton, A.** (March 1999). *Multicultural science education: A case study of seven teachers' experiences with homeless children*. Presented at the National Association for Research in Science Teaching, Boston.
99. Hinden, T., **Calabrese Barton, A.** Trudeau, M., Contento, I., & Yang, K. (March, 1999). *Inner-city mothers' and grandmothers' scientific literacies with regard to food and society*. Presented at the National Association for Research in Science Teaching, Boston.
100. Koch, P., **Calabrese Barton, A.** Trudeau, M., Contento, I., & Yang, K. (March, 1999). *Investigating underprivileged urban children's scientific and nutritional literacies with regard to food and its connection to society, technology and ecology*. Presented at the National Association for Research in Science Teaching, Boston.
101. **Calabrese Barton, A.** Hagiwari, S., Zacharia, Z. & Yang, K. (March, 1999). *Ethics, agency and science education*, Pre-session, Penn Qualitative Research Forum.
102. Yang, K. & **Calabrese Barton, A.** (March 1999). *Knowing and doing multicultural science education among preservice science teachers*. Presented at the Ethnography Forum, Philadelphia, PA.
103. Koch, P., **Calabrese Barton, A.** Trudeau, M., Contento, I., & Yang, K. (July, 1998). *Towards sustainable diets: Upper elementary inner-city school children's perceptions about food and its connection to society, technology and ecology*. Presented at the Society for Nutrition Education, Albuquerque, NM.

104. **Calabrese Barton, A.** & Osborne, M. (June, 1998). *Feminist science education*. Presented at the National Women Studies Association, Oswego, NY.
105. **Calabrese Barton, A.** (April, 1998). *Lived experience: Teaching and learning science through invention*. Presented at the American Education Research Association, San Diego, CA.
106. **Calabrese Barton, A.** & Yang, K. (April, 1998). *The case of Miguel: Science education in the 'hood*. Presented at the American Education Research Association, San Diego, CA.
107. **Calabrese Barton, A.** & Yang, K. (April, 1998). *Homeless children and science education: Exploring what it means to be disadvantaged*. Presented at the National Association for Research in Science Teaching, San Diego, CA.
108. **Calabrese Barton, A.** (April, 1998). *Dangerous teaching: Feminist poststructuralism in science education*. Presented at the National Association for Research in Science Teaching, San Diego, CA.
109. **Calabrese Barton, A.** & Nelson, L. (January, 1998). *Articulating a partnership ten years later: A case study of Middle School 44*. Presented at the National Holmes Meeting, Orlando, FL.
110. **Calabrese Barton, A.** (October, 1997). *Power and representation: After school science with homeless children*. Presented at the annual Science and Culture Meeting, Tucson, AZ.
111. **Calabrese Barton, A.** (1997). *A case study of two preservice teachers learning to teach science in an economically disadvantaged urban setting*. Presented at the Research on Women and Education Conference, Ames, IA.
112. **Calabrese Barton, A.** (March, 1997). *How homeless girls construct science*. Presented at the American Education Research Association Annual Conference, Chicago, IL.
113. **Calabrese Barton, A.** (March, 1997). *Homeless children and science for empowerment: An examination of a political pedagogical practice*. Presented at the American Education Research Association Annual Conference, Chicago, IL.
114. **Calabrese Barton, A.** (March, 1997). *Liberatory science education: Rethinking pedagogical practice from feminist perspectives*. Presented at the National Association for Research on Science Teaching, March, Chicago, IL.
115. Rosenthal, B., Howes, E., & **Calabrese Barton, A.** (October, 1996). *Power and pedagogy: Rereading the metanarratives of science teacher education*. Presented at the Journal of Curriculum Theory Conference, Monteagle, TN.
116. Koch, J. & **Calabrese Barton, A.** (October, 1996). *Fulbright science teacher exchange: Examining "otherness"*. Presented at the Research on Women and Education Conference, San Jose, CA.
117. Osborne, M. & **Calabrese Barton, A.** (June, 1995). *Girls and science: Power, relationships and privilege*. Presented at the National Women's Studies Association annual conference, Saratoga Springs, New York.

118. **Calabrese Barton, A.** (April, 1996). *Liberatory science and urban learners: Our lives are our theories are our lives*. Presented at the American Education Research Association Annual Conference, New York, New York.
119. **Calabrese Barton, A.** (March, 1996). *Power and privilege in the construction of roles and identities by students and teachers in schools*. Presented at the Ethnography Forum, University of Pennsylvania.
120. **Calabrese Barton, A.** & Rittenhouse, P. (October, 1996). *Revising "real science" and "real literacy": Making explicit students' lived experiences*. Presented at the annual Journal of Curriculum Theory conference, Monteagle, TN.
121. **Calabrese Barton, A.** (April, 1995). *Oral histories: Creating spaces of radical resistance in chemistry class*. Presented at the American Education Research Association Annual Conference, San Francisco, CA.
122. **Calabrese Barton, A.** (April, 1995). *Liberatory teacher-research: Questions and concerns of one practitioner*. Presented at the American Education Research Association Annual Conference, San Francisco, CA.
123. **Calabrese Barton, A.** (April, 1995). *Autobiography and science teacher education: Can our lives help us to construct holistic visions of science?* Presented at the National Association for Research on Science Teaching, San Francisco, CA.
124. Hazelwood, C. & **Calabrese Barton, A.** (October, 1994). *Reflecting in conversation: researching the self with the other*. Presented at Research on Women and Education, AERA Special Interest Group, Minneapolis, MN.
125. **Calabrese Barton, A.** (October, 1994). *Positionality, teacher research, and liberatory education*. Presented at the Journal of Curriculum Theory Conference, Banff, Alberta, Canada.
126. **Calabrese Barton, A.** (August, 1994). *Developing student ideas about chemistry through oral histories*. Presented at the National American Chemical Society Convention, Washington, D.C.
127. **Calabrese Barton, A.** (April, 1994). *Exploring the dimensions and dynamics in science education through conversation*. Presented at the American Educational Research Association Convention, New Orleans, LA.
128. **Calabrese Barton, A.** (April, 1994). *Anglo female teachers and Mexican American male students: victims of the politics of assimilation*. Presented at the American Educational Research Association Convention, New Orleans, LA.
129. **Calabrese Barton, A.** & Howes, E. (October, 1993). *Science, feminism and graduate education: weaving new boundaries*. Presented at the Journal of Curriculum Theory Conference, Dayton, OH.
130. **Calabrese Barton, A.** (October, 1993). *Gender-inclusive science: Implications for science education*. Presented at the American Association for University Women National Conference, Minneapolis, MN.
131. **Calabrese Barton, A.** & Wong, D. (April, 1993). *Models for change: Conflicting paradigms in school-university collaboration*. Presented at American Educational Research Association, Atlanta, GA.

132. **Calabrese Barton, A.** (March, 1993). *The social construction of knowledge: Implications for the secondary science classroom*, Presented at the National American Chemical Society Convention, Denver, CO.
133. **Calabrese Barton, A.** (May, 1990). *Elimination via  $\alpha$ -thiocarbonyls*. Presented at the National American Chemical Society Convention, Boston, MA.
134. **Calabrese Barton, A.** (October, 1997). *Preservice teacher education for urban science teaching*. Presented at the annual Northeast Association for Educating Teachers of Science, Syracuse, NY.
135. **Calabrese Barton, A.** (October, 1995). *Revisioning science with pre-service teachers through oral histories conversations*. Presented at the Northeast Regional AETS Conference, New York, New York, October.

### Invited Presentations and Colloquia

1. **Calabrese Barton, A.** (2017). *Science as a Tool Rather than a Destination*. Keynote Presentation. European Science Education Research Association. August 2017. Dublin, Ireland.
2. **Calabrese Barton, A.** (2016). *Becoming Community STEM Experts*. Invited Lecture, University of California at Davis, May 2016.
3. **Calabrese Barton, A.** (2016). *Youth learning and becoming in STEM*. Distinguished Lecture, National Science Foundation, Arlington, VA, April 2016.
4. Service Learning Workshop. Panelist. Kellogg Center. MSU. October 2015.
5. **Calabrese Barton, A.**, Tan, E., Calabrese Barton, S., Caballero, D., Geier, B., Greenberg, D., Nazar, C. D., & Shin, M. (2015, February). *Tools for Teaching and Learning Engineering Practices: Pathways Towards Productive Identity Development in Engineering*. Presented at CREATE for STEM Mini Conference 2015, East Lansing, MI.
6. Archer, L., Dawson, E., **Calabrese Barton, A.** & Dierking, L.D. (2015). Wellcome Trust-funded Science Learning+ *Youth access & equity in ISL: Developing a research and practice agenda* Cross ISL Sector Workshop. July 15-16, 2015. London Zoo, London, UK.
7. **Calabrese Barton, A.** & Dierking, L.D. (2015). Wellcome Trust-funded Science Learning+ *Youth access & equity in ISL: Developing a research and practice agenda* Everyday Science workshop. February 27, 2015. KQED Headquarters, San Francisco, CA.
8. **Calabrese Barton, A.** & Dierking, L.D. (2015). Wellcome Trust-funded Science Learning+ *Youth access & equity in ISL: Developing a research and practice agenda* Community learning workshop. February 28, 2015. KQED Headquarters, San Francisco, CA.
9. **Calabrese Barton, A.** & Dierking, L.D. (2015).. Wellcome Trust-funded Science Learning+ *Youth access & equity in ISL: Developing a research and practice agenda* Designed Spaces workshop. March 27, 2015. American Museum of Natural History. New York City.
10. **Calabrese Barton, A.** (2015). Identity gap & STEM engagement. An invited presentation at the White House & Georgetown Law School Front & Center Forum on Marginalized Girls & STEM, January 15, 2015.

11. **Calabrese Barton, A.** (2014). Educated Action & Learning: Becoming Community Science Experts. An invited colloquium at Colorado University.
12. **Calabrese Barton, A.** (2013). On Becoming Community Science Experts. An invited colloquium at the University of New Mexico.
13. **Calabrese Barton, A.** (2012). Imagining the Possibilities for Education to Solve 21<sup>st</sup> Century Problems. A presentation to the Education Panel of the Obama Library Proposal Committee, University of Hawaii.
14. **Calabrese Barton, A.** (2012). On Becoming Community Science Experts. Invited lecture. Chicago State University
15. **Calabrese Barton, A.** (2010). Designing a Green Roof and Community Science Expertise. Invited lecture. Clemson University.
16. **Calabrese Barton, A.** (2009). Learning to teach science for all & High leverage practices. Invited lecture. University of Michigan.
17. **Calabrese Barton, A.** (2009). Identity, Agency and Learning in Science. Invited lecture. University of Delaware.
18. **Calabrese Barton, A.** & Rose, S. (2009). *Strategies for engagement in GET City!* A paper presented as part of the ITEST resource center webinar on strategies for engagement. November 2009.
19. **Calabrese Barton, A.** (2008). Where da Heat Go? Youth, Agency, and Learning Science. The Thomas Wright Lecture at the Social Justice, Children and the Environment: Empowering Teachers Summer Institute at Sarah Lawrence College, Bronxville, NY.
20. **Calabrese Barton, A.** (2007). Student learning in urban centers. Maryland Institute for Minority and Urban Education. NSF sponsored workshop on urban education. *Keynote* speaker. University of Maryland, May 2007.
21. **Calabrese Barton, A.** (2007). Urban youth learning and their science practices. Iowa State University, March 2007.
22. **Calabrese Barton, A.** (2007). Empowering science learning in urban centers. Quality Urban Educators Program and the Cleveland Municipal School District's Annual Conference. *Keynote* speaker. Cleveland State University, April 2007.
23. **Calabrese Barton, A.** (2006). Agency and Learning in Urban Settings. *Keynote* speaker. International Conference of the Learning Sciences. Bloomington, IN, June 2006.
24. **Calabrese Barton, A.** (2006). Sense of Place and Understanding Science Learning in Urban Settings. University of Washington, Seattle. May 2006.
25. **Calabrese Barton, A.** & Drake, C. (2004). *Parental engagement in urban science education*. Math and Parent Partnerships Conference, University of Arizona, Tucson, AZ.
26. **Calabrese Barton, A.** (2004). Diversity and the learning sciences: A perspective from science education. *Keynote* speaker. International Conference of the Learning Sciences. Santa Monica, CA, June 2004.



27. **Calabrese Barton, A.** (2001). *Endarkened feminism and science education*. Invited Estrin Family Keynote Lecture. University of California at Los Angeles.
28. **Calabrese Barton, A.** (January 2001). *Grounded science: Teaching science to children in poverty*. Invited lecture. Ali Institute of Education, Lahore, Pakistan.
29. Koch, P., **Calabrese Barton, A.**, Contento, I., Trudeau, M., & Hagiwara, S. (October 1999). *Evaluation of inquiry based science*. Invited panel presentation. National Institutes of Health, Science Education Partnership Program Director's meeting, Morgantown, West Virginia.
30. **Calabrese Barton, A.** (May 1999). *Urban science education*. Invited poster presentation. National Science Foundation, Research on Education, Policy and Practice Project Director's meeting, Arlington, VA.
31. **Calabrese Barton, A.** (January 1999). *Science education in economically disadvantaged urban settings*. National Science Foundation, CAREER Award Project Director's meeting, Arlington, VA.
32. **Calabrese Barton, A.** (March, 1999). *Collaborative research in science education*. Invited presentation, Gender and Science Education Conference, Boston, MA.
33. **Calabrese Barton, A.** (November, 1998). *Community science education: Lessons from urban girls and their mothers living and learning in poverty*. Invited lecture, SUNY - Buffalo, Center for Urban Education.
34. **Calabrese Barton, A.** (February, 1998). *Successful after-school programs for homeless children*. Presented at the conference, Educating Homeless Children: Pitfalls and Successes, New York City.
35. **Calabrese Barton, A.** (September, 1997). *Science education and educating homeless children*. Presented at the Fall Spencer Fellows Forum, Denver, CO.
36. **Calabrese Barton, A.**, St. Louis, K., Ermer, J. & Burkett, T. (March 2000). *Inquiry based science teaching in elementary schools*, Normal Elementary School, Austin, TX.
37. **Calabrese Barton, A.**, St. Louis, K., Ermer, J. & Burkett, T. (March 2000). *Science standards and building a nature trail*, Normal Elementary School, Austin, TX.
38. **Calabrese Barton, A.** (March, 1999). *Women in education*, Invited panelist, Women and International Development, International House, New York, NY.
39. **Calabrese Barton, A.** (May, 1998). *Multicultural science education*. Invited lecture, Barnard College, Center for Urban Education.
40. **Calabrese Barton, A.** (May, 1998). *Teacher research: Asking the question*. Invited lecture, Greater Council Meeting, District 3, New York City.
41. **Calabrese Barton, A.** (May, 1997). *Middle school partnerships*. Invited lecture, Greater Council Meeting, District 3, New York City.
42. **Calabrese Barton, A.** (May 1997). *Developing a mission statement for the Science School*. Invited workshop, Middle School 44, District 3, New York City Public Schools.
43. **Calabrese Barton, A.** (June 1997). *Developing an action plan for the Science School*. Invited workshop, Middle School 44, District 3, New York City Public Schools.

44. **Calabrese Barton, A.** (April 1997). *Culturally relevant science teaching*. Invited workshop, Math and Science Study Council, Teachers College Columbia University, New York, NY.
45. **Calabrese Barton, A.** (May 1996). *I feelin' stupid: Volunteerism and community*, Invited lecture presented to the Hofstra Community in conjunction with the service organization, Circle K. Hofstra University, Hempstead, NY.
46. **Calabrese Barton, A.** (May 1996). *The internet and science education*. A workshop presented to pre-service and in-service science teachers. Hofstra University, Hempstead, NY.
47. **Calabrese Barton, A.** (January 1996). *Science, technology, values and society*. A workshop presented in conjunction with School of Education, Hofstra University, Winter conference on Math, Science, and Technology and the revised MA program.
48. **Calabrese Barton, A.** (October 1995). *Learning about others. Learning about myself. My summer as a homeless person*. Workshop presented to the Hofstra Community in conjunction with the service organization, Circle K. Hofstra University, Hempstead, NY.
49. **Calabrese Barton, A.** (May 1995). *Oral histories in science methods courses: Finding ways to challenge pre-service teachers' ideas about science*. Invited lecture, Science Education Program, College of Education, University of Illinois, Champaign Urbana.
50. **Calabrese Barton, A.** (May 1995). *Our lives are our theories are our lives*. Invited lecture, Curriculum and Instruction. College of Education, University of Illinois, Champaign Urbana.
51. **Calabrese Barton, A.** (March 1995). *Mentoring women in the sciences*. Invited presentation for the College of Natural Science, Michigan State University, Spring Seminar: Mentoring in a Culturally Diverse Environment, Kellogg Biological Station, Kalamazoo, MI.
52. **Calabrese Barton, A.** (February 1995). *The World Wide Web, teacher education, and teaching*. A workshop on computer technology and the World Wide Web presented to pre-service k-12 teachers, Michigan State University, East Lansing, MI.
53. **Calabrese Barton, A.** & Kurth, L. (June 1994). *Science, women and mentoring*. Invited lecture, Department of Plant Biology and the Department of Crop and Soil Sciences, Michigan State University, East Lansing, MI.
54. **Calabrese Barton, A.** (March 1994). *Men and women: We are different*. Invited lecture, Flint International Institute Occasional Lecture Series, Flint, MI.
55. **Calabrese Barton, A.** (May, 1994). Ingham Intermediate School District, Kids' College. Science and science education consultant to teachers for science program for 3rd and 4th grade students.
56. **Calabrese Barton, A.** (March 1993). Girls in Math - Science Conference, Ingham County School District, Okemos, MI.
57. **Calabrese Barton, A.** (March, 1992). Girls in Math - Science Conference, Clinton County School District, Howell, MI.

## TEACHING AND RELATED EXPERIENCES

## University Courses Taught

Michigan State University (2006-present)

- Introduction to Qualitative Research Methods in Education (PhD)
- Teacher Education Proseminar: Research, Policy & Practice (PhD)
- Critical & Sociocultural Perspectives in Science Education (PhD)
- Community Engaged Scholarship and Activism in Teaching and Teacher Education (PhD)
- Elementary Science Methods (Undergraduate)
- Advanced Field-based Science Methods (Internship, masters)

Teachers College Columbia University (1996-1999, 2001-2006)

- Secondary Science Methods (Masters)
- Case Study Research Methods (PhD)
- Chemistry Education Methods (Masters)
- Multicultural & Urban Science Education (Masters + PhD)
- Science Technology & Society (Masters + PhD)
- Research in Science Education (PhD)

University of Texas at Austin (1999-2001)

- Elementary Science Methods (undergraduate)
- Curriculum and Learning (PhD)

## Dissertations Directed

Name	Year of Graduation	Dissertation Title	Current Position
1. <b>Myungwhan Shin</b>	2016 (MSU)	Makerspace for All: Youth Learning Identity, & Design in a Community-based Makerspace	Asst. Prof. Cal State Fresno
2. <b>Benjamin Gleason</b>	2016 (MSU)	The World of Teenage Twitter: New Literacies, Identity and Humanizing Pedagogy	Asst. Prof. Iowa State University
3. <b>Sarah Stapleton</b>	2015 (MSU)	Teacher Participatory Action Research on Food, Culture and Schooling	Asst. Prof., University of Oregon
4. <b>Amal Ibourk</b>	2015 (MSU)	A Storied Analysis Approach to Learning to Teach in Urban Schools	Asst. Prof. Florida State University
5. <b>Takumi Sato</b>	2013 (MSU)	Examining How Youth of Color Engage Youth Participatory Action Research to Interrogate Racism in Their Science Experiences	Asst. Prof., Virginia Tech
6. <b>Daniel Birmingham</b>	2013 (MSU)	Teacher Learning from Girls Informal Science Experiences	Asst. Prof., Colorado State University
7. <b>Christine Pereira</b>	2012 (MSU)	Engendering Complexities, Contradictions and Multiplicities	Math Teacher, Avon Park Middle School
8. <b>Adrienne Slaton</b>	2012 (MSU)	Influence of science talk in science learning	Science Dept Chair, Evanston Public

			Schools
9. <b>Brian Horn</b>	2010 (MSU)	Empowerment in the Era of No Child Left Behind: Student Perspectives on Empowerment in a Restructured School	Asst. Prof., Illinois State University
10. <b>Howard Glasser</b>	2008 (MSU)	Single-sex middle school science classrooms: Separate and equal?	Program Officer, Knowles Foundation
11. <b>Kathleen St. Louis</b>	2008 (Teachers College)	Parental Engagement: Beyond Parental Involvement in Science Education	Executive Director, Spark Foundation
12. <b>Edna Tan</b>	2007 (Teachers College)	Exploring minority girls' identities-in-practice	Assoc. Prof. with tenure, UNCG
13. <b>Purvi Vora</b>	2007 (Teachers College)	Preparing Science Teachers to Teach for Social Justice in Urban Schools	School Head, Akansksha Academy in Mumbai
14. <b>Melina Furman</b>	2007 (Teachers College)	Becoming Urban Science Teachers by Transforming Middle School Classrooms	Assoc. Professor, Universidad de San Andrés
15. <b>Verneda Johnson</b>	2007 (Teachers College)	Harlem Renaissance: A Counter Story of Social Justice, Science and Urban School Reform	Teacher, New York City Public Schools
16. <b>Megan Groome</b>	2007 (Teachers College)	Student Questions in Urban Middle School Science Communities of Practice	Senior Vice President of Education, New York Academy of Sciences
17. <b>Meredith Beckford Smart</b>	2006 (Teachers College)	Teacher Sense-Making of Curriculum Structures	Mt. Sinai Hospital
18. <b>Miyoun Lim</b>	2006 (Teachers College)	Exploring Urban Children's Sense of Place	Assoc. Prof. w. tenure Ewha Women's University, Seoul
19. <b>S. Jhumki Basu</b>	2006 (Teachers College)	<i>What Does a Physics Classroom Look Like If Students Are Expected to Understand Rigorous Material, Feel Engaged and Use Physics to Be "Agents of Change"?</i>	Assoc. Prof. w. tenure formerly of New York University (deceased)
20. <b>Robert Danielowich</b>	2005 (Teachers College)	Critical Reflection among Secondary Science Teachers	Assoc. Prof. w. tenure, Adelphi University
21. <b>Tara O'Neill</b>	2005 (Teachers College)	Negotiating Ownership: Understanding Ownership in an Urban Middle School Science Video Project	Assoc. Prof. w. tenure, University of Hawaii Manoa
22. <b>Christos Roushias</b>	2005 (Teachers College)	Ecologies of Parental Engagement and Science Teacher Education: <b>The Design and Development of a Multimedia Case-based Environment</b>	Educational Technologist at Ministry of Education and Culture

<b>23. Lo Ortiz</b>	2005 (Teachers College)	The Kids at Hamilton Elementary School: Coopting Purposes and Practices in Science Education	Teacher, Berkeley CA Public Schools
<b>24. Maria Rivera Maulucci</b>	2004 (Teachers College)	Teaching for Social Justice in an Urban Professional Development Lab	Assoc. Prof w. tenure, Barnard College Columbia University
<b>25. Kostantinos Alexakos</b>	2004 (Teachers College)	The Science Teacher as the Organic Link in Science Learning: Identity, Motives, and Capital Transfer	Assoc. Prof w. tenure, Brooklyn CUNY
<b>26. Sumi Hagiwara</b>	2002 (Teachers College)	<b>Critical pedagogy and inclusive parent programs: An evaluation and analysis of the LiFE Program</b>	Assoc. Prof w. tenure, Montclair State University
<b>27. Courtney St. Prix</b>	2001 (Teachers College)	<i>Narratives of Silenced Deconstruction and How They Inform Pedagogy and Policy: Conversations with low-income urban parents about education, science, and science education</i>	Assist. Prof (Adj), Montclair State University
<b>28. Margaret Doty</b>	2001 (Teachers College)	A Qualitative Examination of Teacher Portfolios	Coordinator of Science, & Tech, White Plains, NY School District

## OUTREACH & SERVICE

### Editorships

Special Guest Editor	<i>Equity &amp; Excellence in Education</i> Special symposium on Equity & Making, in progress.
Editor	<i>Journal of Research in Science Teaching</i> , 2010-2015 (with Joseph Krajcik)
Associate Editor	<i>Journal of Research in Science Teaching</i> , January 2001-2010
Associate Editor	<i>Cultural Studies in Science Education</i> , January 2007 – 2010
Editorial Board	<i>American Education Research Journal</i> , 2014-2016
Editorial Board	<i>Gender &amp; Education</i> , 2016-2019
Editorial Board	<i>Journal of The Learning Sciences</i> , 2011-present
Senior Reviewer	<i>International Conference of The Learning Sciences</i> , 2012, 2014
Special Guest Editor	<i>Equity &amp; Excellence in Education</i> , (Teaching Science for Social Justice), 2010, 43(1), with Bhaskar Upadhyay
Special Guest Editor	<i>School Science and Mathematics</i> Theme issue on Urban Science Education (Issues 105 (6) and 105 (7)).
Editorial Board	<i>Journal of Research in Science Teaching</i> , Jan 2000-Dec 2000

- Special Guest Editor *Journal of Research in Science Teaching*, (Urban Science Education), issues 38(8), 38 (9), 39 (2), with Ken Tobin
- Theme Editor *Theory into Practice*, November, 1998, with Margery Osborne
- Special Guest Editor *Journal of Research in Science Teaching*, (Marginalized discourses and science teaching), April, 1998

### **National Boards and Related External Service**

- Advisor and co-leader*, Center for Advancing Informal Science Education (NSF) Broadening Participation Task Force, 2016-2019
- Advisory Board*, University of Notre Dame Center for STEM Education, 2014-
- Advisory Board*, NSSME+ (Eric Banilower, Horizon Research, 2015-2019).
- Advisory Board*, Practicing Critical STEM Literacy Among Asian Transnational Youth, (Minjung Ryu, Purdue University, 2015-2018).
- Advisory Board*, From Community to Career - A Longitudinal Study of an Out of School Program and Underrepresented Populations. (Aaron Price, Chicago Museum of Science & Industry, 2015-2018)
- Advisory Board*, CAREER: Investigating 5th Grade Teachers' Knowledge of Noticing Appalachian Students' Thinking in Science. (Melissa Luna, University of West Virginia, 2015-2020)
- Advisory Board*, Digital Badges: Validating Science Outside of School. (Katie Davis, University of Washington, 2015-2020)
- Co-Director*, *Sandy K Abell Student Research Institute*. A weeklong intensive summer institute hosted by the National Association of Research in Science Teaching for 24 PhD students (international) in science education (Co-directed with Dr. Julie Luft, University of Georgia). Summer 2014.
- Board Member*, National Association for Research in Science Teaching (elected position), 2005-2008; (ex-officio), 2010-2015
- Advisory Board*, STEM Guides: Building Coherent Infrastructure in Rural Communities (Sue Allen, Maine Mathematics and Science Alliance, 2013-2017, NSF funded study)
- Advisory Board*, Teach Math, (Corey Drake, PI, 2010-2015, NSF funded study).
- Advisory Board*, Bridging the Achievement Gap with Authorable Virtual Peers (Justine Cassell, Northwestern University, 2008-2011, NSF funded study).
- Advisory Board*, Urban Science Learners (Ken Tobin, PI, University of Pennsylvania, 2000-2003, NSF funded study).
- Advisory Board*, Is Science Me? Science Identities in Middle and High School (Pamela Aschbacher, PI, CalTech, 2003-2006, NSF funded study)
- Advisory Board*, Science Center for Equity and Excellence (Julie Bianchini, PI, UCSB, 2003-2007)
- Advisory Board*, High Science Lab Facilities (Dober, Lidsky, Craig, and Associates, Belmont, MA, 1996-1998, NSF funded study)

*Advisory Board*, SMART Science Curriculum, Districts 3 and 5, New York City Public Schools, 1998-1999.

### **National/International Committees**

*Member-at-Large*, Education Section, American Association for the Advancement of Science (elected), 2018-2022.

*AERA Fellows Selection Committee*, September 2017-2020 (presidential appointed)

*Program Committee*, International Conference of the Learning Sciences, Singapore, June 2016, 2015-2106.

*Planning Committee*, AERA mini-Conference on Making and Makerspaces, 2106.

*Chair*, Lifetime Achievement Award Committee, AERA Division G, 2013-2014

*Program Committee*, *International Conference of the Learning Sciences, Boulder, CO June 2014*, 2013-2104.

*Member*, American Education Research Association Social Justice Committee (appointed by the president), 2009-2011

*Co-Chair*, AERA Division K Program Committee (Div K, section 1b), 2011-2012

*Chair*, ad hoc Committee on the History and Future of Equity and Diversity Issues in NARST, National Association for Research in Science Teaching, 2007 - 2009.

*Chair*, Equity and Ethics Committee, National Association for Research in Science Teaching, 2005-2008.

*Chair*, State of Texas Teacher Quality Grants Program. Review Panel. 2008, 2010, 2011, 2013

*Member*, AERA Division B, Dissertation Awards Committee, 2002-2004.

*Member*, JRST Awards Committee, National Association for Research on Science Teaching, 2001-2004

*Member*, Willystine Goodsell Awards Committee (AERA award for women and education), 2000

*Co-Chair*, AERA Division K Program Committee (Program chair, Div K, section 1b), 1998-1999

*Member*, AERA Research on Women and Education Special Interest Group, Secretary, 1996-1999

*Chair*, Women Educators, Research on Women in Education (AERA SIG), 1997-1999

*Member*, Research on Women and Education, (AERA SIG), Dissertation Award Committee, 1996

### **Reviewing for Journals and National and International Organizations**

Reviewer, National Academy of Education Spencer Postdoctoral Fellowship Program, 2013, 2014, 2015

Reviewer, National Academy of Education Spencer Dissertation Fellowship Program, 2012, 2013

Reviewer, AERA Minority Dissertation Fellowship Program, 2011, 2012, 2013

Reviewer, NSF (ROLE, ASCEND, TPC, RGSE, ITEST, DRK12, CAREER) 1999, 2000, 2001, 2002, 2004, 2006, 2007, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018

Reviewer, *American Education Research Journal*, 1999, 2005-present

Reviewer, *Journal of Teacher Education*, 1999-present

Reviewer, *Journal of Curriculum and Supervision*, 2000-2006

Reviewer, *Journal of Education Policy*, 1999-2006

Reviewer, *Teachers College Record*, 1997-2016

Reviewer, *Journal of Research in Science Teaching*, 1997-2009

Reviewer, *Journal of Curriculum Studies*, 1997-2007

Reviewer, SUNY Press, 1997, 1998, 1999, 2002

Reviewer, NIH, NCRR Grants, 1997, 1998, 2002

Reviewer, AERA, Division G, 1996-present

Reviewer, AERA, Division K, 1997-present

Reviewer, AERA, Research on Women and Education SIG, 1996-2002

## **Internal Service**

### **Michigan State University**

*Member*, Promotion and Tenure Committee, College of Education, 2018-2020

*Member*, Promotion and Tenure Committee, Provost Office, 2017-2020

*Member*, Youth Empowerment Programs Task Force, University-wide taskforce focused on university capacity and resource building for faculty, students and staff involvement of youth empowerment programs globally, 2017-

*Member*, All University Awards Committee, 2016-2018

*Member*, Reappointment, Promotion and Tenure Committee, College of Education, 2016-2019

*Member*, Reappointment, Promotion and Tenure & Evaluation Committee Taskforce, Department of TE, 2015-2017

*Co-Chair*, Faculty Advisory Committee to the Chair, Department of TE, 2015-2016

*Member*, English Education Search Committee, Department of TE, 2014-2015

*Member*, Reappointment, Promotion and Tenure & Evaluation Committee, Department of TE, 2014-2015

*Chair*, Reappointment, Promotion and Tenure & Evaluation Committee, Department of TE, 2012-2013

*Co-Chair*, Comprehensive Exam Committee, Department of TE, 2010-2012

*Chair & Member*, Reappointment, Promotion and Tenure Committee, College of Education, 2010-2012 (Chair, 2011-2012)

*Member*, Science Education Search Committee, Department of TE, 2010-2013

*Member*, Teacher Education Committee, 2011-2012

*Member*, College of Education Seed Grant Review Committee, 2011-2012



*Member*, College of Education, Reappointment, Promotion and Tenure Committee, 2010-2012  
*Chair*, Science Education Search Committee, Department of TE, 2010-2011  
*Member*, Math and Science Research Institute Director Search Committee, Department of TE, 2010-2011  
*Member*, Elementary Education Scholarship Committee, College of Education, 2010-2011  
*Chair*, Doctoral Education Committee, Department of TE, 2009-2010  
*Member*, Faculty Advisory Committee to the Chair, Department of TE, 2009-2010  
*Recorder*, Doctoral Education Committee, Department of TE, 2008-2009  
*Member*, Teacher Preparation Committee, Department of TE, member, 2007-2009  
*Member*, Science Education Program Area, Department of TE, member, 2006-present  
*Faculty Leader*, Urban Infused Elementary Teacher Prep, 2008-present  
*Faculty Leader*, Detroit Area Elementary Team, Department of Teacher Education, 2007-  
*Member*, Seed Grant Committee, College of Education, 2006-2008  
*Member*, Urban Education Cohort Program Advisory Committee, College of Education, 2007-  
*Member*, Science Education Search Committee, Department of Teacher Education, 2007-2008  
*Chair*, Science Education Search Committee, Department of Teacher Education, 2006-2007  
*Member*, Urban Education Search Committee, Department of Teacher Education, 2007-2008

### **Teachers College Columbia University**

Coordinator, Programs in Science Education, Department of Mathematics, Science and Technology, Teachers College, Columbia University, 2001-2006.  
 Search Committee (chair), Elementary Science Education, Teachers College, Columbia University, 2003-2004.  
 JFEW and Boxley Scholarship Committee (member), Teachers College, Columbia University, 2001-2004.  
 Search Committee (chair), Secondary Science Education, Teachers College, Columbia University, 2002.  
 Teacher Education Policy Committee (Co-chair, College-wide committee), Teachers College Columbia University, 2003-2004 (member 2001-present)  
 Search Committee (member), Nutrition Education, Teachers College, Columbia University, 2002-2003.  
 Advisory Committee, Institute for Urban and Minority Education, Teachers College Columbia University, 1997-1999, 2003-2004.  
 Faculty Executive Committee (Department Representative), Teachers College, Columbia University, 1997-1999.  
 Search Committee (co-chair), Science Education, Teachers College, Columbia University, 1997-1998.  
 Professional Development School Executive Council, Teachers College, Columbia University and District 3, NYC, 1996-1999.

Race, Diversity, and Culture Subcommittee of the Faculty Executive Committee, Teachers College, Columbia University, 1997-1999.

January Experience, Co-coordinator, Teachers College, Columbia University, 1996-1999.

Student Life Committee, Teachers College, Columbia University, 1996-1997.

### **University of Texas at Austin**

Departmental Review Board for Research on Human Subjects, Department of Curriculum and Instruction, University of TX at Austin, 1999-2001; Chair Spring 2001.

Search committee, Technology Education, Department of Curriculum and Instruction, University of TX at Austin, 2000-2001.

Search committee, Curriculum Studies, Department of Curriculum and Instruction, University of TX at Austin, 2000-2001.

Middle Grades Certification Committee, Department of Curriculum and Instruction, University of TX at Austin, Spring 2000-2001.

Search committee, Elementary Math Education, Department of Curriculum and Instruction, University of TX at Austin, 1999-2000.

Programs in Math and Science Education, Department of Curriculum and Instruction, University of TX at Austin, 1999-2001.

Bilingual Focus Group, Facilitator and Participant, Bilingual programs, Department of Curriculum and Instruction, University of Texas at Austin, Spring 2000.

### **Professional Memberships**

American Education Research Association

American Association for the Advance of Science

International Society of the Learning Sciences

National Association for Research on Science Teaching

National Science Teachers Association

Michigan Science Teachers Association