OKHEE LEE

CURRICULUM VITAE

**CONTACT INFORMATION**

**WORK:**

Department of Teaching and Learning

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**PERSONAL INFORMATION**

Birthplace: Daegu, South Korea

Citizenship: U.S. citizen

**EDUCATION**

1984-1989 Michigan State University, East Lansing, MI

 PhD in educational psychology with an emphasis on learning and

 cognition (academic advisor: Andrew C. Porter)

 Dissertation: Motivation to Learn Science in Middle School Science

 Classrooms (dissertation director: Charles W. Anderson)

1981-1983 Kyungpook National University, South Korea

 MA in education with an emphasis on educational psychology and

 instructional design

1977-1981 Kyungpook National University, South Korea

 BA in English language

 Teaching certificate: Teaching English as a Foreign Language (TEFL)

 in secondary school

**ACADEMIC POSITIONS**

2011-present Professor, Department of Teaching and Learning, Steinhardt School of Culture, Education, and Human Development, New York University

2000-2011 Professor, Department of Teaching and Learning, School of Education, University of Miami

1997-2000 Associate Professor, Department of Teaching and Learning, School of Education, University of Miami

1993-1997 Assistant Professor, Department of Teaching and Learning, School of Education, University of Miami

1992-1993 Adjunct Assistant Professor, Department of Teaching and Learning, School of Education, University of Miami

1990-1992 Research Associate, Department of Teaching and Learning, School of Education, University of Miami

1990-1991 Director of Undergraduate Advising, School of Education, University of Miami

1989-1990 Lecturer, Department of Teaching and Learning, School of Education, University of Miami

1989 Adjunct Instructor, Department of Psychology and Education,

 Miami-Dade Community College

1983-1984 Adjunct Instructor, Teachers’ College and College of Music and Visual Arts, Kyungpook National University, Daegu, South Korea

1983 Adjunct Instructor, College of Elementary Teacher Education, Daegu, South Korea

1983 Adjunct Instructor, College of Home Economics, Daegu, South Korea

**ADMINISTRATIVE ROLES**

2011-2013 Coordinator, Childhood and Early Childhood for Undergraduate and Master’s Degree Programs, Department of Teaching and Learning, Steinhardt School of Culture, Education, and Human Development, New York University

2008-2010 Committee Chair, Undergraduate Elementary Education Committee, Department of Teaching and Learning, School of Education, University of Miami

1990-1991 Director of Undergraduate Advising, School of Education, University of Miami

#### AWARDS AND HONORS

2021 American Educational Research Association Exemplary Contributions to Practice-Engaged Research Award

2020 Distinguished Service to Science Education Award from the National Science Teaching Association

2015-2020 RHSU Edu-Scholar Public Influence Rankings: 2020 (120), 2019 (106), 2018 (86), 2017 (77), 2016 (121), 2015 (110)

2019 Innovations in Research on Equity and Social Justice in Teacher Education Award from the American Educational Research Association Division K Teaching and Teacher Education

2019 Inaugural Distinguished Researcher Award from the Korean-American Educational Researchers Association

2017 Outstanding Educator of the Year by *Education Update*

2016 REVERE Awards finalist for Lee, O., Miller, E., & Januszyk, R. (Eds.). (2015). *NGSS for all students.* National Science Teachers Association

 *Note:* This was supported by the Next Generation Science Standards and Achieve, Inc.

2014 Educational Leadership Award from the National Association of Bilingual Education and the Florida Association of Bilingual Education

2008 University of Miami Provost’s Award for Research Activity

 *Note:* This award is given each year to three to five faculty members across the University of Miami

2007 Florida Educational Research Association Distinguished Paper Award

2003 Distinguished Career Contribution Award from the American Educational Research Association Standing Committee for Scholars of Color in Education

1988 Sage Doctoral Dissertation Grant, College of Education, Michigan State University

1987 Scholarship Award, Arthur T. and Pearl Butler Scholarship, College of Education, Michigan State University

**FELLOWSHIPS**

2011 Faculty in Residence Summer Term, University of Colorado at Boulder

2008-2011 Kurtz Fellow, School of Education, University of Miami

2009 Fellow of the American Educational Research Association

1996-1997 Fellow at the National Institute for Science Education funded by the National Science Foundation and Wisconsin Center for Education Research at the University of Wisconsin-Madison

1993-1995 National Academy of Education Spencer Postdoctoral Fellowship

 Topic: Children’s Views of the World in Social and Cultural Contexts

1994 Visiting Scholar, Minority Visiting Scholars Program. Wisconsin Center for Education Research, School of Education, University of Wisconsin-Madison

 Topic: Children’s World Views in Social and Cultural Contexts

1984-1987 Graduate Research Intern, selected as one of five doctoral students each year for the intern training program at the Institute for Research on Teaching, College of Education, Michigan State University

**REFEREED JOURNAL ARTICLES**

119. **Lee, O.**, Bauler, C., Kang, E., & Ocol, T. (in press). “Doing” science, using language: Professional development to promote science and language integration with a focus on multilingual learners. *NYS TESOL Journal*.

118. Lee, S., Russell, J., Campbell, J., & **Lee, O.** (in press). Student agency through the engineering design process. *Science and Children.*

117. Grapin, S. E., Llosa, L., Haas, A., & **Lee, O.** (in press). Affordances of computational models for English learners in science: Theoretical foundations and initial inquiry. *Journal of Science Education and Technology.*

116. Grapin, S. E., Llosa, L., & **Lee, O.** (in press). Disciplinary practices with English learners in the content areas: Investigating *grasp of practice* in fifth-grade science. *Journal of Language, Identity & Education.*

115. Grapin, S. E., & **Lee, O.** (in press). WIDA English language development standards framework, 2020 edition: Key shifts and emerging tensions. *TESOL Quarterly.*

114. Haas, A., Januszyk, R., Grapin, S. E., Goggins, M., Llosa, L., & **Lee, O.** (2021). Developing instructional materials aligned to the Next Generation Science Standards for all students, including English learners. *Journal of Science Teacher Education. 32*(7), 735-756. <https://www.tandfonline.com/doi/full/10.1080/1046560X.2020.1827190>

113. Haas, A., Grapin, S. E., Simon, K., Llosa, L., & **Lee, O.** (2021, May/June). Integrating computational modeling into science instruction with English learners. *Science and Children,* 74-79. <https://www.nsta.org/science-and-children/science-and-children-mayjune-2021/integrating-computational-modeling-science>

112. Grapin, S. E., Llosa, L., Haas, A., & **Lee, O.** (2021). Rethinking instructional strategies with English learners in the content areas in light of contemporary perspectives on content and language learning. *TESOL Journal, 12*(2), 1-12. <https://doi.org/10.1002/tesj.557>

111. **Lee, O.** (2021). Asset-oriented framing of science and language with multilingual learners. *Journal of Research in Science Teaching, 58*(7), 1073-1979*.* https://doi.org/10.1002/tea.21694

110. **Lee. O.** (2020). Science and language instructional shifts with second-language learners. *Asian-Pacific Science Education, 6*(2)*,* 263-284. https://doi.org/10.1163/23641177-BJA10005

109. **Lee, O.**, & Campbell, D. T. (2020). What science and STEM teachers can learn from COVID-19: Harnessing data science and computer science through the convergence of multiple STEM subjects. *Journal of Science Teacher Education, 31*(8), 932-944. https://doi.org/10.1080/1046560X.2020.1814980

108. **Lee, O.** (2020). Making everyday phenomena phenomenal: Using phenomena to promote equity in science instruction: *Science and Children, 58*(1)*,* 56-61. https://www.nsta.org/

science-and-children/science-and-children-septemberoctober-2020/making-everyday-phenomena

107. **Lee, O.**, & Stephens, A. (2020). English learners in STEM subjects: Contemporary views on STEM subjects and language with English learners. *Educational Researcher*, *49*(6), 426-432. https://doi.org/10.3102%2F0013189X20923708

106. Haas, A., Grapin, S. E., Wendel, D., Llosa, L., & **Lee, O.** (2020). How fifth-grade English learners engage in systems thinking using computational models. *Systems, 8*(4), 47*.* https://doi.org/10.3390/systems8040047

105. **Lee, O.** (2019). Aligning English language proficiency standards with content standards: Shared opportunity and responsibility across English learner education and content areas. *Educational Researcher, 48*(8), 534-542. https://doi.org/10.3102%2F0013189X19872497

*Note:* See the related video on the American Educational Research Association website:

<https://www.youtube.com/watch?v=RkDi0rNGuDs&feature=youtu.be>

*Note:* See the *Education Week* blog on this article:

<https://www.edweek.org/policy-politics/for-english-learners-to-excel-more-collaboration-needed-researcher-argues/2019/10>

104. **Lee, O.**, & Januszyk, R. (2019). Formative assessment of English language proficiency in the science classroom. *Science and Children,* *56*(9)*,* 80-85. https://www.nsta.org/science-and-children/science-and-children-july-2019/formative-assessment-english-language

103. **Lee, O.**, Llosa, L., Grapin, S. E., Haas, A., & Goggins, M. (2019). Science and language integration with English learners: A conceptual framework guiding instructional materials development. *Science Education, 103*(2)*,* 317-337. https://doi.org/10.1002/sce.21498

102. Grapin, S. E., Haas, A., Goggins, M., Llosa, L., & **Lee, O.** (2019). Beyond general-purpose talk moves: Using discipline-specific probes with English learners in the science classroom. *Science and Children, 57*(4), 36-43. https://www.nsta.org/science-and-children/science-and-children-novemberdecember-2019/beyond-general-purpose-talk-moves-0

101. Grapin, S. E., Llosa, L., Haas, A., Goggins, M., & **Lee, O.** (2019). Precision: Toward a meaning-centered view of language use with English learners in the content areas. *Linguistics and Education, 50*(1), 71-83. https://doi.org/10.1016/j.linged.2019.03.004

100. Goggins, M., Haas, A., Grapin, S. E., Llosa, L., & **Lee, O.** (2019). Integrating crosscutting concepts into science instruction. *Science and Children, 57*(1)*,* 56-61. https://www.nsta.org/science-and-children/science-and-children-september-2019/integrating-crosscutting-concepts-0

99. **Lee, O.** (2018). English language proficiency standards aligned with content standards. *Educational Researcher, 47*(5), 317-327. https://doi.org/10.3102%2F0013189X18763775

98. **Lee, O.** (2017). Common Core State Standards for ELA/literacy and Next Generation Science Standards: Convergences and discrepancies using argument as an example. *Educational Researcher, 46*(2), 90-102. https://doi.org/10.3102%2F0013189X17699172

*Note:* See the *Education Week* blog on this article: <http://blogs.edweek.org/edweek/curriculum/2017/04/science_standards_common_core.html>

97. Diamond, B., Maerten-Rivera, J., & **Lee, O.** (2017). Effects of a multiyear curricular and professional development intervention on elementary teachers’ science content knowledge. *Florida Journal of Educational Research, 55*(2), 1-24. https://feraonline.org/journal/journal-contents/?issue=2017-volume-55

96. **Lee, O.**, Llosa, L., Jiang, F., Haas, A., O’Connor, C., & Van Booven, C. (2016). Elementary teachers’ science knowledge and instructional practices: Impact of an intervention focused on English language learners. *Journal of Research in Science Teaching, 53*(4), 579-597. https://doi.org/10.1002/tea.21314

95. **Lee, O.**, Llosa, L., Jiang, F., O’Connor, C., & Haas, A. (2016). School resources in teaching science to diverse student groups: An intervention’s effect on elementary teachers’ perceptions. *Journal of Science Teacher Education, 27*(7), 769-794. https://doi.org/10.1007/s10972-016-9487-y

94. Caswell, L., Martinez, A., **Lee, O.**, Berns, B. B., & Rhodes, H. (2016). Analysis of the National Science Foundation’s Discovery Research K–12 on mathematics and science education for English learners. *Teachers College Record, 118*(5), 1-48. https://www.tcrecord.org/Content.asp?ContentId=19368

93. Maerten-Rivera, J., Ahn, S., Lanier, K., Diaz, J., & **Lee, O.** (2016). Effect of a multiyear intervention on science achievement of all students including English language learners. *The Elementary School Journal, 116*(4), 600-623. https://doi.org/10.1086/686250

92. Llosa, L., **Lee, O.**, Jiang, F., Haas, A., O’Connor, C., Van Booven, C. D., & Kieffer, M. (2016). Impact of a large-scale science intervention focused on English language learners. *American Educational Research Journal*, *53*(2), 395-424. https://doi.org/10.3102%2F0002831216637348

91. Januszyk, R., Miller, E. C., & **Lee, O.** (2016). Addressing student diversity and equity: The Next Generation Science Standards are leading a new wave of reform. *Science*

*Scope, 39*(8), 16-19. https://www.jstor.org/stable/43827310

90. Maerten-Rivera, J. L., Huggins-Manley, A. C., Adamson, K., **Lee, O.**, & Llosa, L. (2015). Development and validation of a measure of elementary teachers’ science content knowledge in two multiyear teacher professional development intervention projects. *Journal of Research in Science Teaching, 52*(3), 371-396. <https://doi.org/10.1002/tea.21198>

89. Haas, A., Hollimon, S., & **Lee, O.** (2015). Methods & strategies: Deep assessment. *Science and Children, 53*(3), 73-77. https://www.jstor.org/stable/43692233

88. Miller, E., Januszyk, R., & **Lee, O.** (2015). NGSS in action. *Science and Children, 53*(2), 64-70. https://www.jstor.org/stable/43691981

87. Miller, E. C., Januszyk, R., & **Lee, O.** (2015). Engineering progressions in the NGSS diversity and equity case studies. *Science Scope, 38*(9), 27-30. https://www.jstor.org/stable/43691290

86. Llosa, L., Van Booven, C. D., & **Lee, O.** (2015). Teaching content standards to English language learners: Elementary science teachers’ use of language development and home language strategies. *NYS TESOL Journal, 2*(2), 6-19. http://journal.nystesol.org/july2015/6elementaryscienceteachers.pdf

85. Buxton, C. A., Salinas, A., Mahotiere, M., **Lee, O.**, & Secada, W. G. (2015). Fourth-grade emergent bilingual learners’ scientific reasoning complexity, controlled experiment practices, and content knowledge when discussing school, home, and play contexts. *Teachers College Record, 117*(2), 1-36.

84. Januszyk, R., Miller, E., & **Lee, O.** (2014). Guest editorial: NGSS case studies: Economically disadvantaged students developing conceptual models. *Science Scope,* *38*(4), 6-11. https://www.jstor.org/stable/43691208

83. **Lee, O.**, Miller, E. C., & Januszyk, R. (2014). Next Generation Science Standards: All standards, all students. *Journal of Science Teacher Education, 25*(2), 223-233. https://doi.org/10.1007/s10972-014-9379-y

82. Turkan, S., De Oliveira, L. C., **Lee, O.**, & Phelps, G. (2014). Proposing a knowledge base for teaching academic content to English language learners: Disciplinary linguistic knowledge. *Teachers College Record*, *116*(3), 1-30. https://www.tcrecord.org/content.asp?contentid=17361

81. Maerten-Rivera, J. L., Myers, N. D., & **Lee, O.** (2014). Studying longitudinal change in teacher practices using the multilevel model and latent growth model with an examination of alternative covariance structures. *International Journal of Quantitative Research in Education, 2*(2), 89-112. https://doi.org/10.1504/IJQRE.2014.064395

80. Cone, N., Buxton, C., **Lee, O.**, & Mahotiere, M. (2014). Negotiating a sense of identity in a foreign land: Navigating public school structures and practices that often conflict with Haitian culture and values. *Urban Education, 49*(3), 125-148. https://doi.org/10.1177%2F0042085913478619

79. Diamond, B. S., Maerten-Rivera, J., Rohrer, R. E., & **Lee, O.** (2014). Effectiveness of a curricular and professional development intervention at improving elementary teachers’ science content knowledge and student achievement outcomes: Year 1 results. *Journal of Research in Science Teaching, 51*(5), 635-658. https://doi.org/10.1002/tea.21148

78. **Lee, O.**, Quinn, H., & Valdés, G. (2013). Science and language for English language learners in relation to Next Generation Science Standards and with implications for Common Core State Standards for English language arts and mathematics. *Educational Researcher, 42*(4), 223-233. https://doi.org/10.3102%2F0013189X13480524

*Note:* See the related video on the American Educational Research Association website: <https://www.youtube.com/watch?v=Ch05eSKObUM>

77. **Lee, O.**, & Buxton, C. A. (2013). Teacher professional development to improve science and literacy achievement of English language learners. *Theory Into Practice, 52*(2), 110-117. https://doi.org/10.1080/00405841.2013.770328

76. **Lee, O.**, & Buxton, C. A. (2013). Integrating science and English proficiency for English language learners. *Theory Into Practice, 52*(1), 36-42. https://doi.org/10.1080/07351690.2013.743772

75. Adamson, K., Santau, A., & **Lee, O.** (2013). The impact of professional development on elementary teachers’ strategies for teaching science with diverse student groups in urban elementary schools. *Journal of Science Teacher Education, 24*(3), 553-571. https://doi.org/10.1007/s10972-012-9306-z

74. Buxton, C. A., Salinas, A., Mahotiere, M., **Lee, O.**, & Secada, W. G. (2013)*.* Leveraging cultural resources through teacher pedagogical reasoning: Elementary grade teachers analyze second language learners’ science problem solving. *Teaching and Teacher Education, 32*(1), 31-42. https://doi.org/10.1016/j.tate.2013.01.003

73. Diamond, B. S., Maerten-Rivera, J., Rohrer, R., & **Lee, O.** (2013). Elementary teachers’ science content knowledge: Relationships among multiple measures. *Florida Journal of Educational Research, 51*(1), 1-20. https://doi.org/10.1016/j.tate.2013.01.003

72. **Lee, O.**, & Maerten-Rivera, J. (2012). Teacher change in elementary science instruction with English language learners: Results of a multiyear professional development intervention across multiple grades. *Teachers College Record, 114*(8), 1-44.https://www.researchgate.net/publication/287014025

71. Emdin, C., & **Lee, O.** (2012). Hip-hop, the “Obama effect,” and urban science education. *Teachers College Record, 114*(2), 1-24. https://www.tcrecord.org/Content.asp?ContentId=16245

70. **Lee, O.**, Penfield, R. D., & Buxton, C. A. (2011). Relationship between “form” and “content” in science writing among English language learners. *Teachers College Record, 113*(7), 1401-1434. https://www.tcrecord.org/Content.asp?ContentId=16073

69. **Lee, O.**, & Buxton, C. (2011). Engaging culturally and linguistically diverse students in learning science. *Theory Into Practice, 50*(4), 277-284. https://doi.org/10.1080/00405841.2011.607379

68. Adamson, K., Secada, W., Maerten-Rivera, J., & **Lee, O.** (2011). Measurement instruction in the context of scientific investigations with diverse student populations. *School Science and Mathematics, 111*(6), 288-299. https://doi.org/10.1111/j.1949-8594.2011.00089.x

67. Lewis, S., Maerten-Rivera, J., Adamson, K., & **Lee, O.** (2011). Urban third grade teachers’ practices and perceptions in science instruction with English language learners*. School Science and Mathematics, 111*(4), 156-163. https://doi.org/10.1111/j.1949-8594.2011.00073.x

66. Lewis, S., **Lee, O.**, Santau, A., & Cone, N. (2010). Student initiatives in urban elementary science classrooms. *School Science and Mathematics, 110*(3), 160-172. https://doi.org/10.1111/j.1949-8594.2010.00018.x

65. Maerten-Rivera, J., Myers, N., **Lee, O.**, & Penfield, R. (2010). Student and school predictors of high-stakes assessment in science. *Science Education, 94*(6), 937-962. https://doi.org/10.1002/sce.20408

64. Penfield, R. D., & **Lee, O.** (2010). Test-based accountability: Potential benefits and pitfalls of science assessment with student diversity. *Journal of Research in Science Teaching, 47*(1), 6-24. https://doi.org/10.1002/tea.20307

63. Santau, A. O., Secada, W., Maerten-Rivera, J., Cone, N., & **Lee, O.** (2010). US urban elementary teachers’ knowledge and practices in teaching science to English language learners: Results from the first year of a professional development intervention. *International Journal of Science Education, 32*(15), 2007-2032. https://doi.org/10.1080/09500690903280588

62. **Lee, O.**, Mahotiere, M., Salinas, A., Penfield, R. D., & Maerten-Rivera, J. (2009). Science writing achievement among English language learners: Results of three-year intervention in urban elementary schools. *Bilingual Research Journal, 32*(2), 153-167. https://doi.org/10.1080/15235880903170009

61. **Lee, O.**, Penfield, R., & Maerten-Rivera, J. (2009). Effects of fidelity of implementation on science achievement gains among English language learners. *Journal of Research in Science Teaching, 46*(7), 836-859. https://doi.org/10.1002/tea.20335

60. **Lee, O.**, Maerten-Rivera, J., Buxton, C., Penfield, R., & Secada, W. G. (2009). Urban elementary teachers’ perspectives on teaching science to English language learners. *Journal of Science Teacher Education, 20*(3), 263-286. https://doi.org/10.1007/s10972-009-9133-z

59. Kitchen, R. S., Roy, F. C., **Lee, O.**, & Secada, W. G. (2009). Comparing teachers’ conceptions of mathematics education and student diversity at highly effective and typical elementary schools. *Journal for Urban Mathematics Education, 2*(1), 52-80. https://doi.org/10.21423/jume-v2i1a24

58. Maerten-Rivera, J., Penfield, R., Myers, N., **Lee, O.**, & Buxton, C. A. (2009). School and teacher predictors of science instruction practices with English language learners in urban elementary schools. *Journal of Women and Minorities in Science and Engineering, 15*(2), 93-118. https://doi.org/10.1615/JWomenMinorScienEng.v15.i2.10

57. Buxton, C. A., **Lee, O.**, & Mahotiere, M. (2009). The role of language in academic and social transition of Haitian children and their parents to urban U.S. schools. *Bilingual Research Journal, 31*(1-2)*,* 47-74. https://doi.org/10.1080/15235880802640573

56. Penfield, R. D., Alvarez, K., & **Lee, O.** (2008). Using a taxonomy of differential step functioning form to improve the interpretation of DIF in polytomous items. *Applied Measurement in Education, 22*(1), 61-78. https://doi.org/10.1080/08957340802558367

55. Bessell, A. G., Burke, M. C., Plaza, M. P., **Lee, O.**, & Schumm, J. S. (2008). The educational reform rating rubric: Example of a new tool for evaluating complex school reform initiatives. *Field Methods, 20*(3), 283-295. https://doi.org/10.1177%2F1525822X07313838

54. Buxton, C., **Lee, O.**, & Santau, A. (2008). Promoting science among English language learners: Professional development for today’s culturally and linguistically diverse classrooms. *Journal of Science Teacher Education, 19*(5), 495-511. https://doi.org/10.1007/s10972-008-9103-x

53. Luykx, A., **Lee, O.**, & Edwards, U. (2008). Lost in translation: Negotiating meaning in a beginning ESOL science classroom. *Educational Policy, 22*(5), 640-674. https://doi.org/10.1177%2F0895904807307062

52. **Lee, O.**, & Buxton, C. (2008). Science curriculum and student diversity: A framework for equitable learning opportunities. *The Elementary School Journal, 109*(2), 123-137. https://doi.org/10.1086/590522

51. **Lee, O.**, Adamson, K., Maerten-Rivera, J., Lewis, S., Thornton, C., & LeRoy, K. (2008). Teachers’ perspectives on a professional development intervention to improve science instruction among English language learners. *Journal of Science Teacher Education, 19*(1)*,* 41-67. https://doi.org/10.1007/s10972-007-9081-4

50. **Lee, O.**, Lewis, S., Adamson, K., Maerten-Rivera, J., & Secada, W. G. (2008). Urban elementary school teachers’ knowledge and practices in teaching science to English language learners. *Science Education, 92*(4)*,* 733-758. https://doi.org/10.1002/sce.20255

49. **Lee, O.**, Maerten-Rivera, J., Penfield, R. D., LeRoy, K., & Secada, W. G. (2008). Science achievement of English language learners in urban elementary schools: Results of a first-year professional development intervention. *Journal of Research in Science Teaching, 45*(1), 31-52. https://doi.org/10.1002/tea.20209

48. **Lee, O.**, Deaktor, R., Enders, C., & Lambert, J. (2008). Impact of a multiyear professional development intervention on science achievement of culturally and linguistically diverse elementary students. *Journal of Research in Science Teaching, 45*(6), 726-747. https://doi.org/10.1002/tea.20231

47. Lee, O., Luykx, A., Buxton, C., & Shaver, A. (2007). The challenge of altering elementary school teachers’ beliefs and practices regarding linguistic and cultural diversity in science instruction. *Journal of Research in Science Teaching, 44*(9), 1269-1291. https://doi.org/10.1002/tea.20198

46. **Lee, O.**, Lester, B. T., Ma, L., Lambert, J., & Jean-Baptiste, M. (2007). Conceptions of the greenhouse effect and global warming among elementary students from diverse languages and cultures. *Journal of Geoscience Education, 55*(2), 117-125. https://doi.org/10.5408/1089-9995-55.2.117

45. Luykx, A., **Lee, O.**, Barnett, J. E. H., Mahotiere, M., Lester, B., & Deaktor, R. (2007). Cultural and home language influences on children’s responses to science assessments. *Teachers College Record, 109*(4), 897-926. https://www.researchgate.net/publication/275044162

44. Luykx, A., & Lee, O. (2007). Measuring instructional congruence in elementary science classrooms: Pedagogical and methodological components of a theoretical framework. *Journal of Research in Science Teaching, 44*(3), 424-447. https://doi.org/10.1002/tea.20127

43. Shaver, A., Cuevas, P., Lee, O., & Avalos, M. (2007). Teachers’ perceptions of policy influences on science instruction with culturally and linguistically diverse elementary students. *Journal of Research in Science Teaching, 44*(5), 725-746. https://doi.org/10.1002/tea.20151

42. **Lee, O.**, Buxton, C., Lewis, S., & LeRoy, K. (2006). Science inquiry and student diversity: Enhanced abilities and continuing difficulties after an instructional intervention. *Journal of Research in Science Teaching, 43*(7), 607-636. https://doi.org/10.1002/tea.20141

*Note:* This article was selected by the National Science Teachers Association Committee on Research in Science Education as one of 10 articles from the past 10 years that teachers should read.

41. Lester, B. T., Ma, L., Lee, O., & Lambert, J. (2006). Social activism in elementary science education: A science, technology, and society approach to teach global warming. *International Journal of Science Education, 28*(4), 315-339. https://doi.org/10.1080/09500690500240100

40. Cuevas, P., **Lee, O.**, Hart, J., & Deaktor, R. (2005). Improving science inquiry with elementary students of diverse backgrounds. *Journal of Research in Science Teaching, 42*(3), 337-357. https://doi.org/10.1002/tea.20053

39. Lee, O., Deaktor, R. A., Hart, J. E., Cuevas, P., & Enders, C. (2005). An instructional intervention’s impact on the science and literacy achievement of culturally and linguistically diverse elementary students. *Journal of Research in Science Teaching, 42*(8), 857-887. https://doi.org/10.1002/tea.20071

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4. Bessell, A. G., Sinagub, J. M., **Lee, O.**, & Schumm, J. S. (2003). Engaging families with technology: South Florida’s FamilyTech Program increases parental involvement, student success. *T.H.E. Journal, 31*(5), 7, 10-13.

3. Lee, O. (2001). Culture and language in science education: What do we know and what do we need to know? *Journal of Research in Science Teaching, 38*(5), 499-501.

2. **Lee, O.** (1997). Scientific literacy for all. *Journal of Research in Science Teaching, 34,* 219-222.

1. **Lee, O.** (1991). Author’s response to Finkel’s criticism. *Science Education, 75*(4), 491-492.

**BRIEFS AND MONOGRAPHS**

8. Guzman-Orth, D., Supalo, C., Smith, D., **Lee, O.**, & King, T. (2020). *Equitable STEM instruction and assessment: Accessibility and fairness considerations for special populations* (ETS Research Report Series No. ETS RR-21-11). <http://doi.org/10.1002/ets2.12324>

7. Bell, P., Suárez, E., Buxton, C., Morrison, D., Rodriguez, A., **Lee, O.**, Bang, M., Tzou, C., & Tesoriero, G. (2018). *OpenSciEd design specifications for equitable science instruction for all students.* <https://tinyurl.com/OpenSciEd-Equity-Specs>

6. Quinn, H., **Lee, O.**, & Valdés, G. (2012). *Language demands and opportunities in relation to Next Generation Science Standards for English language learners: What teachers need to know.* Stanford University Understanding Language Initiative.

5. Lee, O. (2007). *Science achievement gaps: Race/ethnicity, culture, and socioeconomic status.* RMC Research Corporation’s Center on Instruction and U.S. Department of Education.

4. **Lee, O.** (1998). *Current conceptions of science achievement in major reform documents and implications for equity and assessment.* University of Wisconsin-Madison and National Institute for Science Education.

3. Fradd, S. H., & **Lee, O.** (Eds.). (1998). *Creating Florida’s multilingual work force: Policies and practices for instruction and assessment of English language learners.* Florida Department of Education Office of Multicultural Student Language Education.

2. **Lee, O.** (1998). Science instruction and assessment for English language learners in the state of Florida. In S. H. Fradd & O. Lee (Eds.), *Creating Florida’s multilingual work force: Policies and practices for instruction and assessment of English language learners* (pp. v, 1-11). Florida Department of Education Office of Multicultural Student Language Education.

1. **Lee, O.**, Eichinger, D., Anderson, C. W., Berkheimer, G. D., & Blakeslee, T. C. (1990). *Changing middle school students’ conceptions of matter and molecules*. Michigan State University Institute for Research on Teaching.

**COMMITTEE DOCUMENTS**

9. National Science Foundation Broadening Participation Subcommittee of the Advisory Committee for the Education and Human Resources Directorate. (2021). *An Education and Human Resources Directorate prototype for identifying common metrics for monitoring broadening participation in National Science Foundation programs*. National Science Foundation.

*Note:* As chair of the subcommittee, I led the development of this report.

8. National Academies of Sciences, Engineering, and Medicine. (2018). *English learners in STEM subjects: Transforming classrooms, schools, and lives.* National Academies Press.

7. **Lee, O.**, Miller, E., Januszyk, R., Okoro, B., O’Day, B., Gutierrez, J., & Jones, N. (2013). *All standards, all students: Making Next Generation Science Standards accessible to all students.* Achieve, Inc.

*Note:* As part of this project, I coauthored seven case studies focused on the following:

1. Economically disadvantaged students
2. Students from marginalized racial and ethnic groups
3. Students with disabilities
4. English language learners
5. Girls
6. Students in alternative education
7. Gifted and talented students

6. Next Generation Science Standards Lead States. (2013). *Next Generation Science Standards: For states, by states.* National Academies Press.

5. Pimentel, S., Castro, M., Cook, G., Kibler, A., **Lee, O.**, Pook, D., . . . Walqui, A. (2012). *Framework for English language proficiency development standards corresponding to the Common Core State Standards and the Next Generation Science Standards.* Council of Chief State School Officers.

4. Deussen, T., Autio, E., Miller, B., Lockwood, A. T., & Stewart, V. (2008). *What teachers should know about instruction for English language learners: A report to Washington State.* Northwest Regional Educational Laboratory.

3. Ballantyne, K. G., Sanderman, A. R., & Levy, J. (2008). *Educating English language learners: Building teacher capacity roundtable report.* National Clearinghouse for English Language Acquisition.

2. National Research Council, Committee on Science Learning, Kindergarten Through Eighth Grade. (2007). *Taking science to school: Learning and teaching science in grades K-8.* National Academies Press.

1. Lynch, S., Atwater, M., Cawley, J., Eccles, J., **Lee, O.**, Marrett, C., . . . Wiletto, A. (1996). *An equity blueprint for Project 2061 science education reform.* American Association for the Advancement of Science Project 2061.

**RESOURCES FOR NEW YORK STATE EDUCATION DEPARTMENT**

Integrating Science and Language for All Students With a Focus on English Language Learners.

<http://www.nysed.gov/bilingual-ed/news/integrating-science-and-language-all-students-focus-english-language-learners>

<http://www.nysed.gov/bilingual-ed/integrating-science-and-language-all-students-focus-english-language-learners>

Resources include an introduction and seven sets of webinars and briefs (2021):

1. Introduction
2. Unpacking the New York State P-12 Science Learning Standards
3. Science and language with English language learners
4. Science instructional shifts
5. Language instructional shifts
6. A classroom example
7. Science and language assessment shifts
8. Formative assessment in the science classroom

**RESOURCES FOR NATIONAL SCIENCE TEACHING ASSOCIATION**

NSTA playlists:

1. What happens to our garbage?

<https://www.nsta.org/playlist/what-happens-our-garbage>

1. How were the Channeled Scablands formed?

<https://www.nsta.org/playlist/how-were-channeled-scablands-formed>

1. How do fireflies see the light?

<https://www.nsta.org/playlist/how-do-fireflies-see-light>

1. How do ants help the plants and animals of the woods?

<https://www.nsta.org/playlist/how-do-ants-help-plants-and-animals-woods>

1. Computational thinking and modeling

<https://www.nsta.org/playlist/computational-thinking-and-modeling>

1. Tracking COVID-19 in the United States

<https://www.nsta.org/playlist/tracking-covid-19-united-states>

**CURRICULUM DEVELOPMENT**

1. SAIL Research Lab. (2020). *Science and integrated language plus computational thinking and modeling (SAIL+CTM): A yearlong fifth-grade science curriculum aligned to the Next Generation Science Standards with a focus on English learners that integrates computation thinking and modeling.* New York University. [https://www.nyusail.org](https://www.nyusail.org/)
2. SAIL Research Lab. (2019). *Science and integrated language (SAIL): A yearlong fifth-grade science curriculum aligned to the Next Generation Science Standards with a focus on English learners.* New York University. <https://www.nyusail.org>

*Note:* Achieve, Inc. awarded *Grade 5: SAIL Garbage Unit* the NGSS Design Badge, which is the highest rating for NGSS-aligned curriculum units: <https://www.nextgenscience.org/resources/grade-5-sail-garbage-unit>

5. **Lee, O.**, and others. (2013). *Promoting science among English language learners (P-SELL) science 5th grade* (student book and teacher guide). New York University (a comprehensive, stand-alone, year-long science curriculum for fifth grade).

4. Buxton, C. A., Cone, N., Oddone, S., & **Lee, O.** (2009). *Promoting science among English language learners (P-SELL) in middle school science* (student book and teacher guide). University of Miami.

3. **Lee, O.**, Buxton, C. A., LeRoy, K., & Secada, W. G. (2008). *Promoting science among English language learners* (student books and teacher guides). University of Miami. This is a series of nine science curriculum units for third, fourth, and fifth grade: *Measurement*, *States of Matter*, *Water Cycle and Weather*, *Energy*, *Force and Motion*, *Processes of Life*, *Nature of Matter*, *Earth Systems*,and *Synthesis*.

2. Berkheimer, G. D., Anderson, C. W., **Lee, O.**, & Blakeslee, T. C. with Eichinger, D., & Sands, K. (1988). *Matter and molecules teacher’s guide: Science book* (Occasional Paper No. 121). Michigan State University Institute for Research on Teaching.

1. Berkheimer, G. D., Anderson, C. W., & Blakeslee, T. C. with **Lee, O.**, Eichinger, D., & Sands, K. (1988). *Matter and molecules teacher’s guide: Activity book* (Occasional Paper No. 122). Michigan State University Institute for Research on Teaching.

**CONFERENCE PROCEEDINGS**

4. Rehmat, A. P., **Lee, O.**, Nordine, J., Novak, A., Osborne, J., & Willard, T. (2019). Modeling the role of crosscutting concepts for strengthening science learning of all students. In S. J. Fick, J., Nordine, & K. W. McElhaney (Eds.), *Proceedings of the summit for examining the potential for crosscutting concepts to support three-dimensional learning.* University of Virginia. <http://curry.virginia.edu/CCC-Summit>

3. **Lee, O.** (2000). *Equity for culturally and linguistically diverse students in science education: Recommendations for a research agenda.* An invited paper presented at the National Institute for Science Education Forum. The Forum was organized by the National Institute for Science Education, Wisconsin Center for Education Research, and University of Wisconsin-Madison with funding from the National Science Foundation (Cooperative Agreement No. RED 9452971).

2. **Lee, O.** (1996). *Science teacher education for the 21st century in South Korea.* An invited speech presented at the 20th Anniversary of the Korean Association for Research in Science Education International Seminar and Workshop, Seoul, South Korea.

1. Burns-Hoffman, R., **Lee, O.**, & Fradd, S. H. (1995). Patterns of noun-phrase expression in hands-on instructional conversations in science. In D. MacLaughlin & M. Bernstein (Eds.), *Proceedings of the 19th annual Boston University conference on language development.* Cascadilla Press.

FOREWORDS AND ENDORSEMENTS

6. **Lee, O.** (2017). Endorsement of *Language Power: Key Uses for Accessing Content* by Gottlieb and Castro*,* Corwin Press.

5. **Lee, O.** (2016). Foreword. In E. G. Lyon, S. Tolbert, J. Solís, T. Stoddart, & G. Bunch, *Secondary science teaching for English learners: Developing supportive and responsive learning contexts for sense-making and language development* (pp. vii-ix). Rowman & Littlefield.

4. **Lee, O.** (2015). Endorsement of *English Language Learners and the New Standards: Developing Language, Content Knowledge, and Analytical Practices in the Classroom* by Heritage, Walqui, and Linquanti, Harvard Educational Press.

3. **Lee, O.** (2008). Foreword. In K. R. Bruna & K. Gomez (Eds.), *Talking science, writing science: The work of language in multicultural classrooms* (pp. viii-xi). Taylor and Francis.

2. **Lee, O.** (2000). Foreword. In A. E. Sweeny & K. G. Tobin (Eds.), *Language, discourse, and learning in science: Improving professional practice through action research* (pp. 9-11).Southeastern Regional Vision for Education.

1. **Lee, O.** (2000). Foreword. In W. W. Cobern, *Everyday thoughts about nature: An interpretive study of 16 ninth graders’ conceptualizations of nature* (pp. ix-x)*.* Kluwer Academic Publishers.

**BOOK REVIEWS**

1. **Lee, O.** (1996). Review [Review of the book *The other side of the Asian American success story,* by W. Walker-Mofatt]. *World Communication, 25*(2), 106.
2. **Lee, O.** (1996). Review [Review of the book *Asian Americans: Contemporary trends* *and issues,* by P. G. Min]. *World Communication, 25*(2), 105.

**EVALUATION AND RESEARCH REPORTS**

13. **Lee, O.** (2004). *Science and literacy in the context of Haitian students’ home language and culture.* Grant funded by an anonymous foundation.

12. Secada, W. G., & **Lee, O.** (2003). *A study of highly effective USI schools in the teaching of mathematics and science: Classroom level results.* The Urban Institute.

11. Schumm, J., **Lee, O.**, Bessell, A. G., Burke, M. C., & Rivers, A. (2003). *The final evaluation report for the South Florida Annenberg Challenge.* Grant funded by the South Florida Annenberg Challenge, 1998-2003. University of Miami.

10. Schumm, J., **Lee, O.**, Bessell, A. G., Ioannone, P., Ferris, V., Rivers, A., . . . Deaktor, R. (2002). *The 2002 evaluation report for the South Florida Annenberg Challenge.* Grant funded by the South Florida Annenberg Challenge, 1998-2003. University of Miami.

9. Schumm, J., **Lee, O.**, Bessell, A., Ferris, V., Ioannone, P., Deaktor, R., & Galloway, F. (2001). *The 2001 evaluation report for the South Florida Annenberg Challenge.* Grant funded by the South Florida Annenberg Challenge, 1998-2003. University of Miami.

8. **Lee, O.**, & Avalos, M. (2000). *Program evaluation report for bilingual beginnings for teachers and students, 1998-2000.* Grant funded by the U.S. Department of Education Office of Bilingual Education and Minority Languages Affairs, 1998-2000, #T195A980083. University of Miami.

7. **Lee, O.**, & Avalos, M. (2000). *Program evaluation report for biliteracy for beginning teachers, 1998-2000.* Grant funded by the U.S. Department of Education Office of Bilingual Education and Minority Languages Affairs, 1998-2000, #T195A980052. University of Miami.

6. Schumm, J., **Lee, O.**, Bessell, A., Rangel, A., & Barza, L. (2000). *The 2000 evaluation report for the South Florida Annenberg Challenge.* Grant funded by the South Florida Annenberg Challenge, 1998-2003. University of Miami.

5. Schumm, J., **Lee, O.**, Bessell, A., Jean-Francois, J., Rangel, A., Barza, L., & Shaffer, K. (1999). *The 1999 evaluation report for the South Florida Annenberg Challenge: Case studies.* Grant funded by the South Florida Annenberg Challenge, 1998-2001. University of Miami.

4. Gorrell, J., Shannon, D., Ares, N., **Lee, O.**, & Miller, E. (1998). *Year-one evaluation report for the South Florida Annenberg Challenge.* Grant funded by the South Florida Annenberg Challenge, 1998-2001. Auburn University.

3. **Lee, O.**, & Fradd, S. H. (1996). *Program evaluation report for the Master’s ESOL Training Project: 1994-1996.* Grant funded by the U.S. Department of Education Office of Bilingual Education and Minority Languages Affairs, 1994-1996, #T195R40146. University of Miami.

2. **Lee, O.**, & Fradd, S. H. (1995). *Program evaluation report for the Master’s ESOL Training Project: 1994-1995.* Grant funded by the U.S. Department of Education Office of Bilingual Education and Minority Languages Affairs, 1994-1996, #T195R40146. University of Miami.

1. **Lee, O.**, & Fradd, S. H. (1995). *Final evaluation report for the Master’s Degree in TESOL Training and Certification Project.* Grant funded by the U.S. Department of Education Office of Bilingual Education and Minority Languages Affairs, 1991-1995, #T0003R10015. University of Miami.

**FUNDED PROJECTS**

2020-2024 **Principal Investigator**, Professional Development to Support an Elementary School Science and Integrated Language Curriculum (with Eric Banilower as Co-PI at Horizon Research, Inc. and Jessaca Spybrook as Co-PI at Western Michigan University). National Science Foundation Division of Discovery Research PreK-12 ($3 million).

2020-2022 **Co-Principal Investigator**, STEM Identities and K-Career Pathways of Immigrant Youth of Color (with Hua-Yu Sebastian Cherng as PI at New York University, Stella Flores and Sumie Okazaki as Co-PIs at New York University, and Amy Hsin as Co-PI at CUNY Queens College). National Science Foundation Division of Undergraduate Education ($300,000).

2017-2022 **Principal Investigator**, Science and Integrated Language Plus Computational Thinking and Modeling With English Learners (with Eric Klopfer as Co-PI at Massachusetts Institute of Technology, Lorena Llosa as Co-PI at New York University, and Corey Brady as Co-PI at Vanderbilt University). National Science Foundation Division of Research on Learning ($2.5 million).

2019-2021 **Project Director**, Supporting Statewide Leadership for Implementation of New York State P-12 Science Learning Standards With English Language Learners. New York State Education Department ($45,000).

2015-2021 **Principal Investigator**, Development of Language-Focused Three-Dimensional Science Instructional Materials to Support English Language Learners in Fifth Grade (with Guadalupe Valdés as PI at Stanford University and Lorena Llosa as Co-PI at New York University). National Science Foundation Discovery Research K-12 ($1.7 million to New York University and $1.3 million to Stanford University, for a total of $3 million).

2018-2019 **Project Director**, New York State Science Learning Standards With a Focus on ELLs Professional Learning Cycle. New York City Department of Education ($15,000).

2017-2018 **Co-Principal Investigator**,Capitalizing on Aircraft Air and Noise Pollution: Transforming Deficits Into Assets (with Tae Hong Park as PI at New York University). Internal award from NYU ($50,000).

2011-2017 **Principal Investigator**, Promoting Science Among English Language Learners (P-SELL): Scale-Up (with Lorena Llosa as Co-PI at New York University). National Science Foundation Discovery Research K-12 ($4.5 million).

2009-2014 **Principal Investigator**, Promoting Science Among English Language Learners (P-SELL) Efficacy and Sustainability. U.S. Department of Education Institute of Education Sciences ($3 million).

2004-2010 **Principal Investigator**, Promoting Science Among English Language Learners (P-SELL) in a High-Stakes Testing Policy Context (with Walter G. Secada as Co-PI at the University of Miami). National Science Foundation Teacher Professional Continuum Program ($5.5 million).

2009 **Principal Investigator**, Promoting Science Among English Language Learners in Middle School. Carnegie Corporation of New York ($49,700).

2008 **Project Director**, P-SELL Institute. Two private donations ($50,000).

2000-2005 **Principal Investigator**, Instructional Intervention to Promote Science and Literacy With Linguistically Diverse Elementary Students (sub-contract to the University of California at Berkeley, Eugene García as Co-PI). National Science Foundation, U.S. Department of Education, and National Institutes of Health Interagency Education Research Initiative Program ($2.5 million).

2003-2004 **Principal Investigator**, Science and Literacy in the Context of Students’ Home Language and Culture. Sherman Fairchild Foundation ($50,000).

1999-2004 **Co-Principal Investigator**, Evaluation of South Florida Annenberg Challenge (with Jeanne Schumm as PI at University of Miami). Annenberg Foundation ($1,169,403).

2000-2003 **Principal Investigator**, Highly Effective USI Schools: An Outlier Study (sub-contract to the University of Miami from the Urban Institute, Beatriz Clewell as project PI). National Science Foundation Division of Research, Education, and Communication ($150,000).

1998-2003 **Co-Principal Investigator and Project Evaluator**, Bilingual Beginnings for Teachers and Students–5th Year Program (with Sandra H. Fradd as PI followed by Mary Avalos at University of Miami). U.S. Department of Education Office of Bilingual and Minority Languages Affairs ($975,394).

1998-2001 **Co-Principal Investigator and Project Evaluator**, Biliteracy for Beginning Teachers–1st Year Program (with Sandra H. Fradd as PI at University of Miami). U.S. Department of Education Office of Bilingual and Minority Languages Affairs ($671,425).

1997-2000 **Principal Investigator**, Science for All, Including Linguistically Diverse Students: Achieving the Promise (with Sandra H. Fradd as Co-PI at University of Miami). National Science Foundation Research in Education, Policy, and Practice Program ($764,405).

1995-1999 **Project Director**, Secondary School Science and Mathematics Teacher Preparation Project (with Gilbert Cuevas as Co-PI at University of Miami). Eisenhower Funding for Florida Region 6 Higher Education Consortium Florida Department of Education.

 *Note:* Funding was awarded based on annual competition:

 1999: $18,500

 1997-1998: $17,000

 1996-1997: $30,000

 1995-1996: $14,400

1997-1998 **Co-Principal Investigator**, Assessment and Instruction for Students Learning English: Policies and Practices (with Sandra H. Fradd as PI at University of Miami). Florida Department of Education Office of Multicultural Student Language Education ($102,000).

1995-1998 **Co-Principal Investigator**, Promoting Science Literacy for All Americans, Including Culturally and Linguistically Diverse Students: Keeping the Promise (with Sandra H. Fradd as PI at University of Miami and Frank X. Sutman as Co-PI at Rollins College). National Science Foundation Research on Teaching and Learning Program ($659,000).

1996-1997 **Fellow**, Current Conceptions of Science Achievement in Major Reform Documents and Implications for Equity. National Science Foundation ($16,465).

1996-1997 **Principal Investigator**, Asian American Students: Social, Cultural, and Linguistic Influences on Academic Performance and Social Adjustment. University of Miami General Research Support Award ($4,600).

1994-1996 **Co-Principal Investigator and Project Evaluator**, Master’s ESOL Teacher Training (MET) Program (with Sandra H. Fradd as PI at University of Miami). U.S. Department of Education Office of Bilingual and Minority Languages Affairs ($607,000).

1993-1995 **National Academy of Education Spencer Postdoctoral Fellow**, Children’s Views of the World in Social and Cultural Contexts. National Academy of Education Spencer Postdoctoral Fellowship ($35,000).

1993-1994 **Principal Investigator**, Children’s Views of the World in Social and Cultural Contexts. University of Miami General Faculty Research Support Award ($4,000).

1992-1993 **Co-Principal Investigator**, Linguistic Performance, Cognitive Strategies, and Science Knowledge of Non-English Background Students (with Sandra H. Fradd as PI at University of Miami). National Science Foundation Small Grant for Exploratory Research ($50,000).

1992-1993 **Co-Project Director**, Teacher Enhancement in Physics and Chemistry Project (with Shepard Faber as PI at University of Miami). Florida Department of Education ($100,000). (This project was conducted in collaboration with the Miami Museum of Science and Dade County Public Schools.)

1990-1993 **Co-Project Director**, Mathematics and Science Resource Teacher Project (with Gilbert Cuevas as PI at University of Miami). U.S. Department of Education National Eisenhower Mathematics and Science Program ($414,000).

1991-1992 **Co-Project Director**, Teacher Improvement in Physical Science Project (with Shepard Faber as PI at University of Miami). Florida Department of Education ($96,350). (This project was conducted in collaboration with the Miami Museum of Science and Dade County Public Schools.)

1991 **Commissioned Project**, Faculty Development for Effective Teaching (with Billy Birnie and Gilbert Cuevas at University of Miami). University of Miami School of Business Administration ($6,500).

**EDITORIAL BOARDS**

2015-present *Journal of Teacher Education*

2008-present *The Elementary School Journal*

2004-2013 *American Educational Research Journal*

1999-2011 *Review of Educational Research*

1992-2005 *Science Education*

1998-2001 *International Journal of Science Education*

1995-1999 *Journal of Research in Science Teaching*

## EDITORSHIPS

2020-present Buxton, C. A., & **Lee, O.** (in press). Section on diversity and equity in science education. In N. G. Lederman, D. Zeidler, & J. Lederman (Eds.), *Handbook of research in science education* (3rd ed.).Routledge.

2020-present **Lee, O.**, & Campbell, D. T. (2021). Instructional materials aligned to *A Framework for K-12 Science Education* and the Next Generation Science Standards [Special issue]. *Journal of Science Teacher Education, 32*(7).

2011-2014 Buxton, C. A., & **Lee, O.** (2014). Section on diversity and equity in science education. In N. G. Lederman & S. K. Abell (Eds.), *Handbook of research in science education* (2nd ed.).Erlbaum.

2009-2013 **Lee, O.**, & Buxton, C. A. (2013). Diversity and equity in science education [Special issue]. *Theory Into Practice, 52*(1).

2010-2012 **Lee, O.**, & Krajcik, J. (2012). Large-scale interventions in science education for diverse student groups in varied educational settings [Special issue]. *Journal of Research in Science Teaching, 49*(3).

1999-2000 **Lee, O.**, & Lynch, S. (2001). Language and culture in science education [Special issue]. *Journal of Research in Science Teaching, 38*(5).

**REVIEWER APPOINTMENTS**

2014-present Grant proposals submitted to William T. Grant Foundation

2011-present Grant proposals submitted to National Academy of Education/Spencer Dissertation Fellowship, Spencer Foundation

1993-present Grant proposals submitted to various programs in the Directorate for Education and Human Resources, National Science Foundation

1990-present Reviewer for the following peer-reviewed journals:

 *AERA Open*

 *American Educational Research Journal*

 *Bilingual Research Journal*

 *Cognition and Instruction*

 *Educational Evaluation and Policy Analysis*

 *Educational Psychologist*

 *Educational Researcher*

 *The Elementary School Journal*

 *International Journal of Mathematics and Science Education*

 *International Journal of Science Education*

 *Journal of Educational Psychology*

 *Journal of Research in Science Teaching*

 *Journal of Research on Educational Effectiveness*

 *Journal of Science and Technology*

 *Journal of Science Teacher Education*

 *Journal of Teacher Education*

 *Journal of the Learning Sciences*

 *Review of Educational Research*

 *Science Education*

 *Teachers College Record*

 *Teaching and Teacher Education*

 *TESOL Quarterly*

 *Urban Education*

2015, 2018, 2019 Grant proposals submitted to Institute of Education Sciences, U.S. Department of Education

1993-2008 Proposals submitted for presentation at the annual meeting of the National Association for Research in Science Teaching

1990-2008 Proposals submitted for presentation at the annual meeting of the American Educational Research Association

1990-1992 Grant proposals submitted to Dwight D. Eisenhower Mathematics and Science Higher Education Grants Program, Texas

**COMMITTEES**

**NATIONAL:**

2021-present Search Advisory Committee for the Assistant Director for Education and Human Resources, National Science Foundation

2020-2021 Chair, Subcommittee on Broadening Participation, Advisory Committee for the Directorate of Education and Human Resources, National Science Foundation

2019-2022 Advisory Committee for the Directorate of Education and Human Resources, National Science Foundation

2019-2022 Member-at-Large, American Educational Research Association, Washington, DC

2019-2022 Distinguished Contribution to Science Education Research Award Committee, National Association for Research in Science Teaching

2016-2022 Advisory Committee for the Directorate of Education and Human Resources, National Science Foundation

2018-2021 Board of Trustees, Center for Applied Linguistics, Washington, DC

2019-2020 Co-Chair, Division K Legacy Award Committee, American Educational Research Association

2019-2020 Division C Early Career Award, American Educational Research Association

2019 Chair, Committee of Visitors to Review the Portfolio of the Division of Research on Learning in Formal and Informal Settings, National Science Foundation

2017-2018 Committee on Supporting English Learners in STEM Subjects, National Research Council

2015-2016 Chair, Division K Mid-Career Award Committee, American Educational Research Association

2015 National Conversation on Equity Through STEM, National Science Teachers Association

2012-2015 Advisory Committee on English Language Learners for Smarter Balanced Assessment Consortium

2011-2014 Steering Committee on Building on the Common Core State Standards Initiative to Improve Learning for English Language Learners (Kenji Hakuta as PI; Kenji Hakuta and Maria Santos as Co-Chairs of Steering Committee), Stanford University, Stanford, CA

2009-2013 Board of Directors, Korean-American Educational Researchers Association

2012 English Language Proficiency Development Framework Committee, Council of Chief State School Officers, Washington, DC

2010-2011 Chair, Division G Early Career Award Committee, American Educational Research Association

2009 Committee of Visitors to Review the Portfolio of the Discovery Research K-12 and Research and Evaluation on Education in Science and Engineering Programs, Division of Research on Learning, National Science Foundation

2007-2009 Early Career Award Committee, American Educational Research Association

2004-2007 Committee on Science Learning, Kindergarten Through Eighth Grade, National Research Council

2004-2006 Board of Science Education, Center for Education, National Research Council

2003-2006 Board of Directors, National Association for Research in Science Teaching

2001-2004 Executive Member, Committee on Science Education K-12, Center for Education, National Research Council

2001-2003 Chair, Science and Diversity Synthesis Committee. A joint project by the Center for Research on Education, Diversity and Excellence at the University of California-Santa Cruz, the University of Houston, and the National Center for Improving Student Learning and Achievement in Mathematics and Science at the University of Wisconsin-Madison

2002 Committee of Visitors to Review the Portfolio of the Research on Learning and Education Program, Division of Research, Evaluation, and Communication, National Science Foundation

1999-2002 Committee for the Scholars of Color in Education (formerly Committee on the Role and Status of Minorities in Educational Research and Development), American Educational Research Association

1997-2000 Chair, Equity and Ethics Committee, National Association for Research in Science Teaching

1995-1998 *Journal of Research in Science Teaching* Award Committee, National Association for Research in Science Teaching

1994-1996 Project 2061 Equity Blueprint Committee, American Association for the Advancement of Science

**STATE:**

2018-present New York State Science Content Advisory Panel, New York State Education Department, Albany, NY

2016-2020 New York State Science Conference Planning Committee, New York State Boards of Cooperative Education Services

2015-2018 New York State Science Education Steering Committee, New York State Education Department, Albany, NY

1995-1996 Advisory Board, Department of Environmental Education, Florida Department of Education

1993-1994 Writing Committee, Science for All Educators, Florida Department of Education, grant funded by the U.S. Department of Education

**DISTRICT:**

2000-2005 Advisory Board, Miami-Dade County Urban Systemic Program, grant funded by the National Science Foundation

1994-1999 Advisory Board, Dade County Urban Systemic Initiative, grant funded by the National Science Foundation

1995-1997 Advisory Board, Dade County Public Schools, Academy of Instructional Leadership, grant funded by the U.S. Department of Education

1993-1996 Advisory Board, Region 6 Florida Statewide Systemic Initiative, grant funded by the National Science Foundation

**PANELS**

2020 Integrating Science and Literacy in Elementary Education, National Academies of Sciences, Engineering, and Medicine (virtual)

2019 Contemporary Leadership in Science Education, Science Teachers Association of New York State annual conference, NY

2019 Language, Culture, and Education: Implications for Second Language Learners, Center for Applied Linguistics, Washington, DC

2016 New York State P-12 Science Standards Adoption, New York State Board of Regents, NY

2016 Advisory Panel to Review and Update WIDA’s 2012 Amplification of the English Language Development Standards, PA

2015 #Sci4allSs Twitter Book Study Group, National Science Teachers Association, VA

2015 Finding Common Ground: How the New Math and Science Standards Can Equalize Education, *U.S. News and World Report* STEM Solutions Conference, CA

2015 Disciplined Dialogues Project-Building a Better Teacher Workplace, Spencer Foundation, CA

2014 Celebrating the Merck Institute for Science Education, NJ

2013 City & State on Education Forum, NY

2011-2013 Writing Team for Next Generation Science Standards, Achieve, Inc., Washington, DC

2011-2013 Leader, Next Generation Science Standards Diversity and Equity Team, Achieve, Inc., Washington, DC

2012 Advancing the College- and Career-Ready Agenda for All Students, American Diploma Project Network Leadership Team, Washington, DC

2011 High-Quality STEM Education for English Learners: Best Practices and Current Challenges, U.S. Department of Education Office of English Language Acquisition, Washington, DC

2010 New Ways to Assess What Children Learn in School, Spencer Foundation, IL

2010 Quality of Teaching English Language Learners in the Content Areas, Educational Testing Service, NJ

2010 Managing Career Development in the US, Korean-American Educational Researchers Association, CO

2008-2009 Science for English Language Learners Position Statements, National Science Teachers Association, VA

2008 English Language Learners for Washington State, Northwest Regional Educational Laboratory and Washington Department of Education, WA

2008 Professional Development of ELL Content Teachers, National Clearinghouse for English Language Acquisition and U.S. Department of Education, Washington, DC

2008 Inspiration Panel, University of Miami and NASA’s Future Forum, FL

2007 Science Education Panel, Institute of Education Sciences, U.S. Department of Education, Washington, DC

#### PODCAST APPEARANCES

2021 *Ask Matt–NGSS Science Education Advice From an Expert: Part 2 Science and Language.* Hosts: Eugene Cordero and Matt d’Alessio (February 5). <https://www.buzzsprout.com/282085/7483864-interview-with-dr-okhee-lee-part-2-science-and-language>

2021 *Ask Matt–NGSS Science Education Advice From an expert: Part 1 Intentions of the NGSS.* Hosts: Eugene Cordero and Matt d’Alessio (February 2). <https://www.buzzsprout.com/282085/7483804-interview-with-dr-okhee-lee-part-1-intentions-of-the-ngss>

2020 *RBERNing Questions–Supporting ELLs in Science.* Host: Liesl Coope; Co-host: Christopher Leece (April 29). <https://drive.google.com/file/d/13a-8WRgqNXHqu41NMg2xHniJsGf2y6Qd/view>

#### INVITED SPEECHES

2021 *Crosscutting Concepts: A Professional Book Study for K-12 Educators*, National Science Teaching Association Professional Book Study

2021 *Elementary Science and Engineering for ALL Students,* Michigan Mathematics and Science Leadership Network and Charles A. Dana Center MI

2021 *Teacher Tip Tuesday: Learn and Lead on Twitter,* National Science Teaching Association

2021 *Using Phenomena to Engage Multilingual Learners / English Language Learners in Science Learning and Language Development,* New York City Department of Education

2021 *Elementary Science Learning and Literacy Integration,* Michigan Mathematics and Science Leadership Network and Charles A. Dana Center

2021 *Using Phenomena to Promote Equity in Science Instruction,* 2021 Virtual Summer Leadership Institute, National Science Education Leadership Association

2021 *Creating “A New Normal” for STEM Education with Justice for All Students: COVID-19 Pandemic and Systemic Racism,* 2021 JASON National Educators’ Virtual Conference, JASON Learning

2021 *STEM Education With Equity for a New Normal,* CA Early Implementer Collaborative, K-12 Alliance

2021 *Creating Equitable and Inclusive Science Learning Opportunities for Culturally Diverse Students,* science4all, Friedrich-Schiller-Universität Jena, Germany

2021 *Women in STEM: Paving the way for girls everywhere,* Spring STEM Conference: Making Connections, Thriving in a Digital World, New York City Department of Education

2021 *STEM Education With Equity for a New Normal*, New York State BOCES Mathematics and Science Group

2021 *COVID-19 and Systemic Racism* (with Todd Campbell), BSCS

2021 *COVID-19 and Social Justice: A Storyline for Promoting Transdisciplinary Knowledge Production to Connect STEM Learning to Societally Pressing Problems* (with Todd Campbell), University of Hawai'i–West O'ahu

2021 *Crosscutting Concepts: A Professional Book Study for K-12 Educators*, National Science Teaching Association Professional Book Study (four sessions)

2021 *Integrating Science and Language With a Focus on English Learners/ Multilingual Learners*, Howard Hughes Medical Institute (two sessions)

2021 *STEM Education With Equity for* “*a New Normal*,” College of Education and Human Development, Texas A&M University

2021 *Integrating Science and Language for All Students With a Focus on English Learners*, National Science Education Leadership Association

2021 *Doing Science, Using Language for Multilingual Learners/English Language Learners Series* (with Theresa Ocol, Emily Kang, and Clara Bauler), New York City Department of Education (four sessions)

2021 *STEM Education and Equity*, Be Inspired: STEM in Your Future Classroom–2021 Pre-Service Teacher STEM Conference, University of Northern Iowa

2021 *Teaching Science to Address Societally Pressing Phenomena and Challenges: The COVID-19 Pandemic and Systemic Racism* (with Todd Campbell), Council of State Science Supervisors

2021 *Equity Call to Action*, OpenSciEd Research, Digital Promise

2021 *Integrating Science and Language for All Students With a Focus on English Language Learners*, Science Content Advisory Panel for the New York State Education Department

2021 *Transforming Science Learning: Teaching Science to Address Societally Pressing Phenomena and Challenges: The COVID-19 Pandemic and Systemic Racism*, National Science Teaching Association Transforming Science Learning Series

2021 *Language and Culture in STEM Lesson Planning*, STEM4Real

2021 *Computational Thinking and Modeling Integrated Into Science* *Instruction* (with Alison Haas), Oregon Science Teachers Association

2021 *Integrating STEM and Language With All Students, Including Second Language Learners*, Korean Association of Science Education International Conference, South Korea

2021 *Pursuing Diversity: The Words We Choose*, Community to Classroom Connections Webinar Series, Omaha Public Schools

2021 *The COVID-19 Pandemic and Systemic Racism: Creating a “New Normal” for STEM Education With Social Justice for All Students* (with Todd Campbell), Northern Arizona University

2020 *COVID-19 and Systemic Racism: Creating a “New Normal” for STEM Education*, Master Teachers of Math and Science

2020 *Integrating Science Learning, Language Learning, and Computational Thinking With All Students, Including English Learners* (with Alison Haas), Oregon Science Teachers Association

2020*The COVID-19 Pandemic and Systemic Racism: Creating “a New Normal” for Science and STEM Education With Social Justice for All Students* (with Todd Campbell), Connecticut Science Teachers Association

2020 *How Instructional Shifts in STEM and Language Support Each Other for English Learners* (with Harold Asturias), Council of Great City Schools BIRE Conference

2020 *The COVID-19 Pandemic and Systemic Racism: Creating “a New Normal” for STEM Education With Social Justice for All Students* (with Todd Campbell), Council of Great City Schools BIRE Conference

2020 *Engaging All Students in Learning Science and Developing Language* (with Emily Kang), New York State TESOL Conference

2020 *ELP Standards Aligned to Content Standards: Shared Opportunities and Responsibilities*, New York State TESOL Conference

2020 *Integrating STEM and Language With All Students, Including English Learners*, Science Teachers Association of Texas Virtual Conference

2020 *How the NGSS Science Instructional Shifts and Language Instructional Shifts Support Each Other for English Learners*, First Annual STEMteachersExpo

2020 *Making Everyday Phenomena Phenomenal–Using Phenomena to Promote Equity in Science Instruction*, Delaware Science Education Department

2020 *Integrating STEM and Language With All Students, Including English Learners*, California Science Teachers Association Virtual Science Education Conference

2020 *The COVID-19 Pandemic and Systemic Racism: Creating “a New Normal” for STEM Education With Social Justice for All Students*, Oregon Science Teachers Association and Washington Science Teachers Association Collaborative Virtual Conference

2020 *Convergences and Discrepancies Across STEM and Language for All Students, Including English Learners*, Oregon Science Teachers Association and Washington Science Teachers Association Collaborative Virtual Conference

2020 *The COVID-19 Pandemic and Systemic Racism–Creating “a New Normal” for STEM Education With Social Justice for All Students*, Educational Access, Inclusion, and Learning in a Time of COVID-19: The Role of Technology, International Conference on Education Quality

2020 *Convergences and Discrepancies in Disciplinary Practices Across Content Areas With a Focus on English Learners: Using Argument and Modeling as Examples*, State Collaborative on Assessment and Student Standards, Council of Chief State School Officers

2020 *Integrating Science Learning, Language Learning, and Computational Thinking With All Students, Including English Learners*, Inaugural STEM20: Virtual Event, National Science Teaching Association

2020 *Multidisciplinary Convergence Teaching and Learning With All Students*, National Science Education Leadership Association Summer Leadership Institute

2020 *What Science and STEM Educators Can Learn From COVID-19: Harnessing Data Science and Computer Science Through Multidisciplinary Convergence of STEM Subjects*, National Science Education Leadership Association Summer Leadership Institute

2020 *Learning From COVID-19: Harnessing Data and Computer Science for Engaging K-12 Learners in Current Societal Issues*, Leveraging Our Statewide Network to Support STEM Teaching and Learning, New York State Master Teachers Program

2020 *STEM Education for All Students, Including English Learners*, Accelerate Learning, Inc./STEMscopes

2020 *Multidisciplinary Convergence Teaching and Learning Across STEM and Language for All Students, Including English Learners*, New York University Department of Teaching and Learning Theories and Philosophies of Teaching and Learning Lecture Series

2020 *Convergences and Divergences Across Content Areas*, Virtual Unconference, Nebraska Association of Teachers of Science

2020 *Supporting ELLs in Science*, RBERNing Questions Podcast, Mid-State Regional Bilingual Education Resource Network (RBERN) at Onondaga Cortland Madison Board of Cooperative Educational Services

2020 *Integrating Science and Language With All Students, Including English Learners*, Hoosier Association of Science Teachers

2020 *Science and Language Assessment of All students, Including English Learners*, Hoosier Association of Science Teachers

2020 *Multidisciplinary Convergence Teaching and Learning Across STEM and Language for All Students, Including English Learners*, 2019/20 Dean’s Lecture Series, Graduate School of Education, University of Buffalo

2019 *Science and Language Integration With All Students, Including English Learners*, Quinnipiac University Science Teaching and Learning Center

2019 *Transforming Innovations Into Reality in Science* (panel moderator), Science Teachers Association of New York State

2019 *STEM–For All Students*, Connecticut Science Teachers Association

2019 *Integrating Computational Thinking Into Science Learning for All Students* (with Alison Haas), Connecticut Science Teachers Association

2019 *Multidisciplinary Convergence Including Engineering Education for All Students Including English Learners*, Jubilee Symposium on Inclusive Learning, Education, and Workforce Development in Future Societies hosted by the Swedish Royal Academy of Engineering Sciences in partnership with the U.S. National Academy of Engineering and Embassy of Sweden

2019 *Science and Language Assessment of All Students, Including English Learners*, Oregon Science Teachers Association

2019 *STEM Education for All Students, Including English Learners*, Oregon Science Teachers Association

2019 *Science and Language Assessment of All Students, Including English Learners*, Nebraska Association of Teachers of Science

2019 *Engaging All Students in Science*, Nebraska Association of Teachers of Science

2019 *English Learners in STEM Subjects*, Webinar for Oregon Science Teachers Association

2019 *English Learners in STEM Subjects*, STEM Forum & Expo hosted by National Science Teachers Association

2019 *Science Education Initiative in Omaha Public Schools*, Omaha Public Schools

2019 *Content Standards in STEM Subjects and Instructional Implications for English Learners*, Council of the Great City Schools

2019 *Opening Session: Framing the Conversation: Language and STEM With English Learners*, National Science Teachers Association Virtual Conference

2019 *Science and Language Assessment of All Students, Including English Learners*, Washington Association of Bilingual Education

2019 *STEM Education for All Students, Including English Learners*, Washington Association of Bilingual Education

2019 *Transforming the Teaching of Middle School Science*, New York City Department of Education

2019 *Professional Development of the National Science Teachers Association Leadership and Staff*, National Science Teachers Association

2019 *English Learners in STEM Subjects: Virtual Book Study*, National Science Teachers Association

2019 *STEM Education for All Students*, National Science Education Leadership Association Webinar

2019 *STEM Education for All Students, Including English Learners*, Omaha Public Schools

2019 *STEM Education for All Students, Including English Learners*, Lincoln Public Schools

2019 *Promising Instructional Strategies for Supporting English Learners in STEM Subjects*, National Research Council #ELSTEM Webinar

2018 *STEM Education for All Students, Including English Learners*, Southern Methodist University, School of Education and Graduate Student Organization

2018 *Science and Language Assessment of All Students, Including English Learners*, Virginia Association of Science Teachers

2018 *Science for All: Instructional Shifts to Promote Science and Language Learning With All Students, Including English Learners*, Virginia Association of Science Teachers

2018 *English Learners in STEM Subjects: Transforming Classrooms, Schools, and Lives*, National Research Council #ELSTEM Webinar

2018 *English Learners in STEM Subjects: Transforming Classrooms, Schools, and Lives*, National Research Council and National Science Foundation

2018 *Opening General Session: Using Phenomena to Promote Equity in Instruction*, National Science Teachers Association Virtual Conference

2018 *Science Education for All: Instructional Shifts to Promote Science and Language Learning*, National Science Education Leadership Association Summer Leadership Institute

2018 *Integrating Science Learning and Computational Thinking With All Students, Including English Learners* (with Alison Haas and Scott Grapin), National Science Education Leadership Association Summer Leadership Institute

2018 *Science and Language Instruction and Assessment With All Students, Including English Learners* (with Scott Grapin and Alison Haas), National Science Education Leadership Association Summer Leadership Institute

2018 *Science for All: Instructional Shifts to Promote Science and Language Learning With All Students, Including English Learners*, Texas Regional Collaboratives Annual Meeting

2018 *Science and Language Assessment of All Students, Including English Learners*, Texas Regional Collaboratives Annual Meeting

2018 *Nexus of Change: Working at the Intersections Between Broadening Participation, STEM and Computer Science Disciplines, and Technological Innovations in Education*, National Science Foundation Discovery Research K-12 Principal Investigator Meeting

2018 *Formative Assessment of Science and Language Learning With All Students, Including English Learners*, Michigan Math and Science Center

2018 *Science for All: Instructional Shifts to Promote Science and Language Learning With All Students, Including English Learners*, Rhode Island Science Teacher Association

2018 *Science and Language Assessment of All Students, Including English Learners*, Rhode Island Science Teacher Association

2018 *Engaging All Students in Science*, National Science Teachers Association featured presentation

*Note:* See the video on the National Science Teachers Association website:

<https://www.youtube.com/watch?v=3yTdlw9JKXQ>

2018 *Equity in Assessment*, Council of Science State Supervisors

2018 *Implementing New York State P-12 Science Learning Standards to Promote Science and Language Learning of English Learners*, Division of English Language Learners and Student Support, New York City Department of Education

2017 *STEM for All: Instructional Shifts to Promote Science and Language Learning*, National Science Teachers Association Area Conference

2017 *Science for All: Promoting Equitable Science Teaching Practices to Support Student Learning*, Onondaga-Cortland-Madison Counties Board of Cooperative Educational Services Conference

2017 *ELP Standards Aligned With Content Standards: Shared Opportunities and Responsibilities*, WIDA Annual Conference

2017 *How Science (NGSS) Instructional Shifts and Language Instructional Shifts Support Each Other With English Learners*, Expansion of K-6 NGSS Instructional Specialist Program Meeting

2017 *The Changing World of Assessment With Student Diversity and Equity*, National Science Teachers Association National Congress on Science Education

2017 *Engaging All Students in Science,* National Science Teachers Association National Congress on Science Education

2017 *NGSS 3-Dimensional Learning and Assessment of Science and English Proficiency*, Hawaii Department of Education Science Kickstart

2017 *NGSS Instructional Shifts and Language Instructional Shifts Support Each Other With English Learners*, Hawaii Department of Education Science Kickstart

2017 *NGSS-Aligned Science Instructional Materials for English Learners*, National Research Council Workshop on Instructional Materials for the Framework for K-12 Science Education and the Next Generation Science Standards

2017 *NGSS Instructional Shifts and Language Instructional Shifts Support Each Other*, California Alliance for Next Generation Science Standards

2017 *NGSS Instructional Shifts and Language Instructional Shifts Support Each Other With English Learners*, National Research Council Early STEM and Young Dual Language Learners

2017 *Science Standards*, New York State Board of Cooperative Educational Services Workshop

2017 *Science Initiative for English Learners Institute*, New York City Department of Education Division of English Language Learners and Student Support

2017 *Equity, Inclusion, and Diversity*, National Research Council Educator Capacity Building Workshop

2017 *How Teachers and Parents Can Assist Korean Children’s Language Development Through Mathematics and Science*, Korean American Teachers Association of New York

2016 *NGSS With All Students, Including English Learners,* Biological Sciences Curriculum Study

2016 *ELP Standards and Content Standards: Language Instructional Shifts*, Arizona TESOL State Conference

2016 *NGSS With All Students, Including English Learners*, National Science Foundation Presidential Awards for Excellence in Mathematics and Science Teaching Symposium on Active Learning

2016 *NGSS With All Students, Including English Learners*, WGBT for PBS

2016 *Engineering is Elementary With All Students, Including English Learners*, Boston Museum of Science

2016 *NGSS Instructional Shifts Provide Opportunities for Language Learning*, Expansion of K-6 NGSS Instructional Specialist Program

2016 *Content and Language Learning Across Subject Areas With English Learners*, Stanford University Language, Equity, and Education Policy Working Group

2016 *Equity and Diversity in STEM Education: Making the Next Generation Science Standards (NGSS) Accessible to All Students*, STEM Education for All: Fostering Diversity Through K-12 and Higher Education Partnerships & Frontiers in Microbiology Education Conference

2016 *Next Generation Science Standards (NGSS): A Foundation*, Boards of Cooperative Educational Services of New York State

2016 *Next Generation Science Standards (NGSS): Science and Language*, Rutgers Graduate School of Education Brown Bag Lunch Talk

2015 *NGSS for Diversity and Equity*, Building a Constituency for Science: The Impact of the Next Generation Science Standards on the Work of Informal Science Institutions Meeting, American Museum of Natural History and the Carnegie Corporation of New York

2015 *Development of Language-Focused Three-Dimensional Science Instructional Materials to Support English Language Learners in Fifth Grade*, National Science Foundation Next Generation STEM Learning for All Forum

2015 *Connections of NGSS to CCSS for All Students, Including English Language Learners*, National Science Teachers Association Conference

2015 *The Next Generation Science Standards: All Standards, All Students*, NGSS–Opportunities for Iowa Conference

2015 *STEM Equity and Needs of Disadvantaged Students in Rural Areas*, STEM Education Equity: Policies to Create Opportunities in Rural Iowa Conference

2015 *NGSS for All Students*, Delaware Department of Education

2015 *NGSS Three-Dimensional Learning and Language Use*, Expansion of K-6 NGSS Instructional Specialist Program

2015 *Promoting Science Among English Language Learners (P-SELL) Scale-Up*, Sanibel Leadership Conference

2015 *Next Generation Science Standards and Common Core State Standards for English Language Learners*, Sanibel Leadership Conference

2015 *Effective Science Instruction for English Language Learners*, University of North Carolina

2015 *Next Generation Science Standards and Common Core State Standards for All Students, Including English Language Learners*, New York University Department of Teaching and Learning Research Colloquium Series

2015 *Next Generation Science Standards (NGSS): All Standards, All Students*, Delaware NGSS Leadership Team Meeting

2015 *Next Generation Science Standards (NGSS): All Standards, All Students*, Mary C. McCurdy Lecture at the National Science Teachers Association Conference

2015 *NGSS and CCSS for English Language Learners*, National Association for Bilingual Education Conference

2015 *NGSS for Diversity and Equity*, Next Generation Science Standards Network Leadership Conference

2015 *National Policy Perspective on Science Standards and ELP (or ELD) Standards*, Exploratorium Conference on Exploring Science and English Language Development: Implications for Teacher Professional Learning

2014 *Next Generation Science Standards*, Seoul National University

2014 *General Closing Session: Next Generation Science Standards Practices in Action*, National Science Teachers Association Virtual Conference

2014 *Science Classroom Instruction for English Language Learners*, Teaching Academic Content and Literacy to English Learners in Elementary and Middle Schools Institute, Regional Educational Laboratory Southeast Research to Practice Bridge Event

2014 *Next Generation Science Standards: All Standards, All Students*, Washington Science Teachers Association

2014 *Diversity and Equity in Science: All Standards, All Students*, New York Hall of Science

2014 *A Review of DR K-12 English Language Learner Projects and Their Contribution to Research*, National Science Foundation Discovery Research K-12

2014 *Effective Science Instruction for English Language Learners*, University of Massachusetts at Boston and Center of Science and Mathematics in Context Summer Institute

2014 *Common Core and Next Generation Science Standards in the Dual Language Classroom: Implementation Strategies*, Dual Language Summer Institute

2014 *Common Core and Next Generation Science Standards in the Dual Language Classroom: An Overview*, Dual Language Summer Institute

2014 *Next Generation Science Standards for Diversity and Equity With a Focus on English Language Learners*, Equity Conversations: Updates in STEM Education K-12

2014 *Next Generation Science Standards: All Standards, All Students*, Merck Institute for Science Education

2014 *Culture and Language for Student Diversity*, STEMposium: Closing the Opportunity Gap in STEM Education Conference

2014 *Closing the Opportunity Gap to Effective STEM Learning Environments: Using NGSS and Language as Pathways*, STEMposium: Closing the Opportunity Gap in STEM Education Conference

2014 *Next Generation Science Standards for English Language Learners*, Language, Culture, and Identity Conference

2014 *Next Generation Science Standards for English Language Learners*, National Science Teachers Association Professional Development Institute on Increasing Language Skills and Access to Rigorous Science Education: Examining the Opportunities That the Next Generation Science Standards Provide to English Learners, coordinated by the USDOE Office of English Language Acquisition

 *Note:* I also served as a coordinator of the conference and facilitator for panel discussions.

2014 *Next Generation Science Standards: All Standards, All Students*, Science Teachers Association of New York State

2014 *General Closing Session: Next Generation Science Standards Practices in Action*, National Science Teachers Association Virtual Conference

2014 *Next Generation Science Standards and Common Core: Engaging English Language Learners*, New York City–2/Long Island Region, Adelphi University

2014 *Next Generation Science Standards: All Standards, All Students,* Merck Institute for Science Education

2014 *Next Generation Science Standards and Common Core: Engaging English Language Learners*, Western Washington University

2013 *The Role of Oral and Written Discourse in Teaching and Learning Science*, National Research Council Literacy for Science: Exploring the Intersection of the Next Generation Science Standards and Common Core for ELA Standards Workshop

2013 *Next Generation Science Standards: All Standards, All Students*, Lehman College

2013 *Next Generation Science Standards for English Language Learners*, Palm Beach County Public Schools Multicultural Department

2013 *Next Generation Science Standards: All Standards, All Students*, Super Science Saturday by Lee County Public Schools

2013 *Next Generation Science Standards: All Standards, All Students*, Florida Association of Science Teachers Conference

2013 *Next Generation Science Standards: All Standards, All Students*, Florida Association of Science Supervisors Conference

2013 *Next Generation Science Standards: All Standards, All Students*, Maine Science Teachers Association Conference

2013 *Educating All Students: English Language Learners*, K-12 Educators in Professional Development Workshop, New York University

2013 *The Common Core and the Next Generation Science Standards: Implications for STEM Education Research*, U.S. Department of Education Institute of Education Sciences Principal Investigators’ Meeting

2013 *Next Generation Science Standards: All Standards, All Students*, Materials Research Science and Engineering Centers funded by the National Science Foundation and University of California, Santa Barbara

2013 *Next Generation Science Standards for English Language Learners*, University of Illinois at Chicago Bilingual/ESL Teacher Training Summer Institute

2013 *Supporting Learning in Diverse Science Classrooms*, Council of State Science Supervisors Building Capacity in State Science Education National Conference

2013 *Making NGSS Accessible to All Students*, Council of State Science Supervisors Building Capacity in State Science Education National Conference

2013 *Science and Language for English Learners*, Steinhardt School of Culture, Education, and Human Development Sci-Ed-Expo, New York University

2013 *Next Generation Science Standards and Common Core State Standards for Diversity and Equity*, Stanford University Language, Equity, and Education Policy Working Group

2013 *The Common State Standards: Potential Outcomes and Consequences in Relation to Student Diversity and Equity*, New York University Steinhardt Education Policy Breakfast Series

2013 *Implications for Teacher Preparation, Professional Development, Curriculum and Policy*, National Science Teachers Association Pre-Conference on Enhancing Science Instruction to Meet the Needs of English Learners in Grades 6-12 coordinated by the USDOE Office of English Language Acquisition

 *Note:* I also served as a coordinator of the conference and facilitator for panel discussions.

2013 *Next Generation Science Standards: All Standards, All Students*, Council of State Science Supervisors Annual Meeting

2013 *Diversity and Equity in Science Education*, University of Arizona Annual Graduate Student Colloquy

2013 *Next Generation Science Standards for English Language Learners*, National Association of Bilingual Education Annual Meeting

2012 *Language Demands and Opportunities in Relation to Next Generation Science Standards for English Language Learners*, California Accountability Leadership Institute

2012 *Next Generation Science Standards for English Language Learners*, CREATE conference on English Learners in the Content Area Classes: Teaching for Achievement in the Middle Grades

2012 *Next Generation Science Standards for English Language Learners* (breakout session with L. Meade, M. Milano, C. Negrón, and R. Zimmerman), CREATE conference on English Learners in the Content Area Classes: Teaching for Achievement in the Middle Grades

2012 *Next Generation Science Standards for English Language Learners*, New York City Department of Education Research-Based Educational Practices for English Language Learners Conference

2012 *Promoting Science Learning and Language Development of English Language Learners*, Washington Association of Bilingual Education

2012 *Next Generation Science Standards for English Language Learners*, New York City Department of Education

2012 *Student Diversity and Science Education Research in a Global Context: Research Agenda and the Role of NARST*, National Association for Research in Science Teaching

2012 *Promoting Science Learning and Language Development of English Language Learners*, New Jersey Symposium on Common Core and English Language Learners

2012 *Science and Language for English Language Learners*, New York State Association for Bilingual Education

2011 *Overview of Science Education for English Learners*, U.S. Department of Education Office of English Language Acquisition High-Quality STEM Education for English Learners: Best Practices and Current Challenges Roundtable

 *Note:* I also served as a coordinator of the roundtable and facilitator for panel discussions.

2011 *Effective STEM Education Strategies for Diverse and Underserved Student Groups*, National Research Council Workshop on Successful STEM Education in K-12 Schools

2010 *Methodological Issues in Implementation Research in Urban Settings*, U.S. Department of Health and Human Services Improving Implementation Research Methods for Behavioral and Social Science Meeting

2010 *Envisioning the Role of Trans-National Educational Researchers in Global Society*, Korean American Educational Researchers Association Annual Meeting

2009 *Promoting Science Among English Language Learners*, Council of the Great City Schools Annual Meeting

2009 *The Knowledge Base for Science Education With English Language Learners*, International Reading Association Annual Meeting

2008 *Methodological Issues in an Urban Study*, National Science Foundation Discovery Research K-12 Principal Investigators’ Meeting

2008 *Instructional Interventions to Promote Science Learning and English Language Development of English Language Learners*, National Superintendents’ Annual Forum

2008 *Instructional Interventions for English Language Learners That Support the Use and Learning of Academic Language and Content*, Center for Research on the Educational Achievement and Teaching of English Language Learners

2008 *Science Instruction With English Language Learners*, Miami-Dade County Public Schools

2008 *Science and Literacy for English Language Learners*, Literacy Institute sponsored by the National Geographic Society and Literacy Achievement Research Center

2008 *Language and Culture in Science Instruction*, Science Made Sensible Project funded by the National Science Foundation and University of Miami College of Arts and Sciences

2008 *The Knowledge Base for Science Education With English Language Learners*, Miami-Dade College Pathways to Excellence in Teaching Project

2008 *Science and Literacy for English Language Learners*, Raising the Bar on Science Instruction for ELLs Symposium for New York Public Schools

2008 *Equity in Science Education*, American Educational Research Association Annual Meeting

2007 *Inquiry-Based Science for English Language Learners*, U.S. Department of Education Annual Meeting

2006 & 2007 *What Does the Research Say?* National Science Foundation and National Science Teachers Foundation

2006 *Promoting Science Among English Language Learners*, Office of English Language Acquisition Celebrate Our Rising Stars Summit

2006 *Diversity and Science Education: What Research Says About English Language Learners*, Institute for Integrated Science at Miami University

2005 & 2006 *Assessing Science and Literacy Achievement of English Language Learners Within a High-Stakes Testing Policy Context*, National Science Foundation and National Science Teachers Association Science Assessment Conference

2005 *Developing a Culture for Students to Develop a Science Achievement Identity*, Maryland Institute for Minority Achievement and Urban Education Optimizing Science Achievement for All Students Symposium

2005 *Big Ideas in Science for English Language Learners and More*, University of Pittsburgh Institute for Learning, Learning Research and Development Center

2003 *Measuring for Scale-Up in Education*, Conceptualizing Scale-Up: Multidisciplinary Perspectives Conference

2003 *Cognitive, Cultural, and Linguistic Scaffolding for Diverse Groups of Students in Science Instruction*, University of Michigan Knowledge Sharing Institute, Center for Curriculum Materials in Science

2003 *Teaching Science to Culturally and Linguistically Diverse Students: Critical Issues and Promising Practices*, Mid-Atlantic Equity Center Annual Regional Conference

2002 *Science and Literacy for Linguistically Diverse Elementary Students*, Teachers College, Columbia University Urban Science Education Center

2002 *Science for All: Instructional Intervention to Promote Science Learning and Literacy Development of Linguistically Diverse Elementary Students*, University of California School of Education, Santa Barbara

2002 *Diversity and Teaching*, University of Miami Alumni Lecture Series

2001 *Science for All Students*, National Science Foundation Southwest Regional Conference

2001 *Science Instruction for English Language Learners*, Florida Department of Education Bureau-Wide Education Conference

2001 *The Achievement Gap in Science and Mathematics Education*, National Science Foundation

2000 *Science Instruction for Culturally and Linguistically Diverse Students*, University of Illinois Project TAT One-Day Institute

2000 *Equity for Culturally and Linguistically Diverse Students in Science Education: Recommendations for a Research Agenda*, National Institute for Science Education Forum

1998 *Science Instruction and Assessment for English Language Learners in the State of Florida*, Florida Department of Education Policies and Practices for Instruction and Assessment of English Language Learners Symposium

1996 *Science Teacher Education for the 21st Century in South Korea*, Korean Association for Research in Science Education International Seminar and Workshop in Science Education

1996 *Science Literacy With Students From Diverse Languages and Cultures*, University of New York Bilingual and Second Language Education Research Symposium

1995 *Culturally and Linguistically Diverse Students in Science Education*, National Science Foundation and the Education Development Center State-Wide Systemic Initiative Cross-State Work Session

 *Note:* In addition to making a keynote speech, I also served as the local coordinator of the conference.

1991 *Comparative Perspectives of Science Education in the United States and South Korea*, Seoul National University Department of Physical Science Education

1989 *Student Motivation to Learn*, Miami-Dade Community College Department of Psychology and Education

#### DISCUSSANT

2021 *Transforming science education by fostering students’ creativity and critical thinking* [Invited Speaker Session]. American Educational Research Association.

2017 *Using NGSS to inform and provide equitable instruction, learning, and assessments to diverse students* [Poster presentation]. American Educational Research Association.

2013 *What’s language got to do with it* [Paper presentation]. Principal investigators’ meeting, U.S. Department of Education Institute of Education Sciences.

2011 *Advancing English language learners in science and math: Realizing the promise* [Roundtable]. American Educational Research Association.

2011 *Language in the science classroom* [Paper presentation]. American Educational Research Association.

2011 *Advancing English language learners in science and math: Realizing the promise* [Symposium]. American Educational Research Association.

2011 *Effective science teaching for English language learners* [Symposium]. American Educational Research Association.

2010 *NARST sponsored session for new researchers* [Symposium]. National Association for Research in Science Teaching.

2010 *Writing a competitive proposal for the National Science Foundation’s (NSF) Division of Research on Learning in Formal and Informal Settings (DRL): Strategies and tips for novice and seasoned proposers* [Preconference workshop]. National Association for Research in Science Teaching.

2009 *Culturally relevant science teaching and learning* [Symposium]. American Educational Research Association.

2008 *The relationship between integrated science, language and literacy teaching, and student learning in diverse classrooms* [Symposium]. American Educational Research Association.

2008 *Bridging marginalized science stories, experiences, and* meanings [Symposium]. American Educational Research Association.

2005 *Science instruction for all: Responsive pedagogies in scientific inquiry development* [Symposium]. American Educational Research Association.

2005 *Navigating the academy: Critical issues for scholars of color* [Preconference workshop] (with M. Atwater and G. Solano-Flores). National Association for Research in Science Teaching.

2004 *Research and writing process for underrepresented scholars* [Preconference workshop] (with A. Rodriguez and O. Norman). National Association for Research in Science Teaching.

2003 *Increasing the capacity for change in districts with diverse student populations* [Symposium]. American Educational Research Association.

2003 *Science instruction for all: Promoting science and literacy for linguistically and culturally diverse elementary students* [Symposium]. American Educational Research Association.

2003 *The effects of power, culture, and discourse as they impact learners in science education* [Paper presentation]. American Educational Research Association.

2001 *Learning in two languages: Teaching and learning literacy and science in an urban elementary school* [Symposium]. American Educational Research Association.

2001 *Theoretical and empirical perspectives on urban science education* [Symposium]. National Association for Research in Science Teaching.

2000 *Grounded science: Making sense of urban science education with youth and teachers* [Symposium]. American Educational Research Association.

2000 *Inquiry-based science supported by technology* [Symposium]. American Educational Research Association.

2000 *Demystifying the research writing process for underrepresented scholars* [Professional development]. American Educational Research Association.

2000 *From good intentions to transformative action: Exploring the practical issues of teaching “science for all” in various school contexts* [Symposium]. National Association for Research in Science Teaching.

2000 *Science education for all? Examining connections/disconnections between theory and classroom practice and finally moving this idea from rhetoric toward reality–Part I* [Symposium]. National Association for Research in Science Teaching.

2000 *Designing and revising curriculum for diverse learners: Promoting scientific understandings through inquiry and embedded technologies* [Symposium]. National Association for Research in Science Teaching.

1999 *Organizational resources in support of teaching for understanding in mathematics and science* [Symposium]. American Educational Research Association.

1999 *Negotiated practices: Teaching, learning, and researching in science* [Paper presentation]. American Educational Research Association.

## CONFERENCE PRESENTATIONS

149. **Lee, O.** (2021, April). *A conversation with Okhee Lee.* American Educational Research Association, virtual conference.

148. Haas, A., Brady, C., Llosa, L., & **Lee, O.** (2021, April). *Using fifth-grade educative curriculum materials that integrate computational thinking and modeling into NGSS-aligned instruction* [Paper presentation]. American Educational Research Association, virtual conference.

147. **Lee, O.**, & Campbell, T. (2021, April). Teaching science to address pressing societal challenges: COVID-19 and systemic racism. *Engaging science education research and praxis for the good of the “public” amid global pandemics* [Symposium]. National Association for Research on Science Teaching, virtual conference.

146. Flores, S. M., Cherng, H. S., Okazaki, S., Carroll, T., Hsin, A., Lee, C., & **Lee, O.** (2020, April). Immigrant students and STEM pathways: Understanding locations of advantage and disadvantage [Paper presentation]. American Educational Research Association Annual Meeting, San Francisco, CA, United States. <http://tinyurl.com/tlfan5f> (Conference Canceled)

145. Haas, A. M., Grapin, S. E., Goggins, M., Llosa, L., & **Lee, O.** (2020, April). Integrating computational thinking and modeling into Next Generation Science Standards–aligned elementary science curriculum with English learners [Symposium]. American Educational Research Association Annual Meeting, San Francisco, CA, United States. <http://tinyurl.com/r57d5tx> (Conference Canceled)

144. Llosa, L., Grapin, S. E., Haas, A. M., Goggins, M., & **Lee, O.** (2020, April). Teachers’ use of formative assessments embedded within a Next Generation Science Standards–aligned science curriculum focused on English learners [Roundtable session]. American Educational Research Association Annual Meeting, San Francisco, CA, United States. <http://tinyurl.com/r46b7eh> (Conference Canceled)

143. Grapin, S. E., Llosa, L., **Lee, O.**, & Weinberg, S. L. (2020, April) Are we missing part of the picture? Multimodal assessment of English learners in science [Roundtable session]. American Educational Research Association Annual Meeting San Francisco, CA, United States. <http://tinyurl.com/yx7nyns3> (Conference Canceled)

142. **Lee, O.** (2019). *How the NGSS science instructional shifts and language instructional shifts support each other for English learners* [Paper presentation]. Science Teachers Association of New York State, Rochester, NY, United States.

141. **Lee, O.**, Llosa, L., Haas, A., Goggins, M., & Grapin, S. E. (2019). *How the NGSS science instructional shifts and language instructional shifts mutually support each other for all students, including English learners* [Symposium]. American Educational Research Association, Toronto, Canada.

140. Francis, D. J., **Lee, O.**, Solano-Flores, G., & Chaval, K. B. (2019). *English learners in STEM subjects: Transforming classrooms, schools, and lives–A report from the National Academies of Sciences, Engineering, and Medicine* [Invited speaker session]. American Educational Research Association, Toronto, Canada.

139. Goggins, M., Haas, A., Grapin, S. E., Llosa, L., & **Lee, O.** (2019). *Using crosscutting concepts to make sense of phenomena: Engaging diverse student groups in learning science* [Paper presentation]. American Educational Research Association, Toronto, Canada.

138. Haas, A., Grapin, S. E., Goggins, M., Llosa, L., & **Lee, O.** (2019). *A case study of one teacher’s knowledge and beliefs about computational modeling with English learners* [Paper presentation]. American Educational Research Association, Toronto, Canada.

137. Hsiao, L., Anderson, E., and others, including **Lee, O.** (2018). *Integrating computational modeling into K-12 science classrooms* [Paperpresentation]. Connected Learning Summit, Cambridge, MA, United States.

136. Haas, A., & **Lee, O.** (2018). *Integrating science learning and computational thinking with all students, including English learners* [Paper presentation]. New York State Education Department Technology Education Conference, Albany, NY, United States.

135. Hanuscin, D. L., **Lee, O.**,Lynch, S. J., Stuhlsatz, M., Talbot, R. M., & Taylor, J. A. (2018). *The problem of attrition in large-scale studies of science teacher professional development: Lessons learned* [Symposium]. National Association for Research in Science Teaching, Atlanta, GA, United States.

134. Goggins, M., **Lee, O.**, Januszyk, R., Haas, A., Llosa, L., & Grapin, S. E. (2018). *Making everyday phenomena phenomenal: Engaging diverse student groups in learning science* [Paper presentation]. American Educational Research Association, New York, NY, United States.

133. Llosa, L., **Lee, O.**, Van Booven, C., & Haas, A. (2017). *Impact of a multiyear elementary science intervention focused on English language learners* [Paper presentation]. American Educational Research Association, San Antonio, TX, United States.

132. **Lee, O.**, Llosa, L., & Maerten-Rivera, J. (2016). *Curricular and professional development intervention in elementary science instruction with a focus on English language learners* [Symposium]. American Educational Research Association, Baltimore, MD, United States.

131. Llosa, L., **Lee, O.**, Jiang, F., O’Connor, C., & Haas, A. (2015). *The impact of a fifth-grade science curricular and professional development intervention on student science achievement with a focus on English language learners: Evidence from a randomized controlled trial* [Paper presentation]. American Educational Research Association, Chicago, IL, United States.

130. Van Booven, C., Llosa, L., & **Lee, O.** (2015). *Spontaneous analogies in elementary student writing: An “untapped” resource for constructing scientific explanations* [Paper presentation]. American Educational Research Association, Chicago, IL, United States.

129. O’Connor, C., Llosa, L., Jiang, F., & **Lee, O.** (2015). *Intervention’s effect on elementary teachers’ science knowledge and practices with English language learners: Year 1 results* [Paper presentation]. American Educational Research Association, Chicago, IL, United States.

128. Januszyk, R., & **Lee, O.** (2014). *NGSS case study on economically disadvantaged students: Developing conceptual models to explain chemical processes* [Paper presentation]. Washington Science Teachers Association, Spokane, WA, United States.

127. Januszyk, R., & **Lee, O.** (2014). *Effective instruction for English language learners: Using language while doing science and engineering practices* [Paper presentation]. Washington Science Teachers Association, Spokane, WA, United States.

126. Diamond, B., Maerten-Rivera, J., & **Lee, O.** (2014). *Effect of a curricular and professional development intervention on elementary teachers’ science content knowledge* [Paper presentation]. National Association for Research in Science Teaching, Pittsburgh, PA, United States.

125. Lindskoog, G., Maerten-Rivera, J., Ahn, S., Diamond, B., & **Lee, O.** (2014). *Teachers’ perceptions of high-stakes testing and accountability in elementary science* [Paper presentation]. National Association for Research in Science Teaching, Pittsburgh, PA, United States.

124. O’Connor, C., **Lee, O.**, Jiang, F., & Llosa, L. (2014).*School resources in teaching science to English learners across three school districts in one state* [Paper presentation]. American Educational Research Association, Philadelphia, PA, United States.

123. Haas, A., Jiang, F., **Lee, O.**, & Hollimon, S. (2014). *Elementary science teachers’ perceptions of high-stakes science assessment* [Paper presentation]. American Educational Research Association, Philadelphia, PA, United States.

122. Llosa, L., Van Booven, C., & **Lee, O.** (2014). *Teaching content standards to English language learners: Elementary science teachers’ use of language development strategies* [Paper presentation]. American Educational Research Association, Philadelphia, PA, United States.

121. Maerten-Rivera, J., Adamson, K. H., Huggins, A. C., **Lee, O.**, Llosa, L., Jiang, F., & Rohrer, R. (2014). *The development and validation of instruments used to measure teachers’ science knowledge and teaching practices in a professional development project* [Paper presentation]. American Educational Research Association, Philadelphia, PA, United States.

120. Haas, A., & **Lee, O.** (2014). *Promoting science among English language learners* [Paper presentation]. Multilingual and Multicultural Center of Portland Public Schools, Portland, ME, United States.

119. **Lee, O.**, Buxton, C. A., Stoddart, T., Rodriguez, A. J., & Mosqueda, E. (2013). *Addressing the challenges of conducting large-scale projects in educational contexts* [Symposium]. American Educational Research Association, San Francisco, CA, United States.

118. Quinn, H., **Lee, O.**, & Valdés, G. (2013). *Language demands and opportunities for English language learners: What teachers need to know* [Symposium]. American Educational Research Association, San Francisco, CA, United States.

117. **Lee, O.**, Ahn, S., Lanier, K. S., & Rohrer, R. (2013). *School resources in teaching science to English language learners in urban elementary schools: Year 1 results* [Paper presentation]. American Educational Research Association, San Francisco, CA, United States.

116. Maerten-Rivera, J., **Lee, O.**, Penfield, R. D., & Huggins, A. C. (2013). *The effects of student mobility to a three-year intervention on science achievement: An issue of fidelity* [Paper presentation]. American Educational Research Association, San Francisco, CA, United States.

115. Lanier, K. S., Suarez, M., Ahn, S., **Lee, O.**, & Hunter, T. (2013). ***Principal support: Does it influence teachers’ science instructional practices during a science intervention*** [Paper presentation]? National Association for Research in Science Teaching, Rio Grande, Puerto Rico.

114. Diamond, B., Maerten-Rivera, J., Rohrer, R., & **Lee, O.** (2013). *A professional development intervention’s effectiveness on elementary teachers’ science content knowledge and student achievement outcomes* [Paper presentation]. National Association for Research in Science Teaching, Rio Grande, Puerto Rico.

113. Diamond, B., Maerten-Rivera, J., Rohrer, R., & **Lee, O.** (2013). *Effectiveness of curricular and professional development intervention on elementary teachers’ science content knowledge and student achievement outcomes: Year 1 results* [Paper presentation]. Association for Science Teacher Education, Charleston, SC, United States.

112. **Lee, O.**, Negrón, C., Meade, L., & Thrift, M. (2013). *Promoting science among English language learners (P-SELL) scale-up* [Paper presentation]. Florida Association of Science Teachers, Miami, FL, United States.

111. Diamond, B., Maerten-Rivera, J., Rohrer, R., & **Lee, O.** (2012). *The effect of teacher science content knowledge on student achievement as measured by the science FCAT* [Paper presentation]. Florida Educational Research Association, Gainesville, FL, United States.

110. Maerten-Rivera, J., Adamson, K., Ahn, S., & **Lee, O.** (2012). *An examination of the validity and reliability of constructs used to measure teachers’ science knowledge and practices in a longitudinal intervention* [Paper presentation]. Florida Educational Research Association, Gainesville, FL, United States.

109. **Lee, O.** (2012). *Next Generation Science Standards for English language learners* [Paper presentation]. Orange County Public Schools Back-to-School Professional Development Conference, Orlando, FL, United States.

108. **Lee, O.**, Ahn, S., Diamond, B., Lanier, K., Lindskoog, G., Maerten-Rivera, J., & Rohrer, R. (2012). *Promoting science among English language learners (P-SELL) efficacy study* [Symposium]. National Association for Research in Science Teaching, Indianapolis, IN, United States.

107. Callihan, L., & **Lee, O.** (2012). *Promoting science among English language learners* [Paper presentation]. Thirteenth Sharing Our Success Conference in Urban Science and Math Teaching/STEME. Collaboration between New York City Department of Education and Steinhardt School of Culture, Education, and Human Development at New York University, New York, NY, United States.

106. Callihan, L., & **Lee, O.** (2012). *Promoting science among English language learners* [Paper presentation]. Orange County Public Schools Back-to-School Professional Development Conference, Orlando, FL, United States.

105. **Lee, O.**, de Armas, M., Diaz, J., & Breeding, A. (2012). *Promoting science among English language learners* [Paper presentation]. Summit of the Association of Latino Administrators and Superintendents, Miami, FL, United States.

104. **Lee, O.**, Milano, M., Meade, L., Negrón, C., & Zimmerman, R. (2012). *Promoting science among English language learners* [Paper presentation]. National Center for Research on the Educational Achievement and Teaching of English Language Learners Conference, Orlando, FL, United States.

103. Crawford, B., **Lee, O.**, and others. (2011). *Supporting teachers in teaching science as inquiry: What is the evidence for effective professional development* [Symposium]? National Association for Research in Science Teaching, Orlando, FL, United States.

102. Bianchini, J., Ackerson, V., Calabrese Barton, A., **Lee, O.**, & Rodriguez, A. (2011). *Moving the equity agenda forward: Equity research, practice, and policy in science education* [Poster presentation]. National Association for Research in Science Teaching, Orlando, FL, United States.

101. Adamson, K., Santau, A., & **Lee, O.** (2011). *Elementary teachers’ strategies for teaching science with diverse student populations in urban elementary schools* [Paper presentation]. American Educational Research Association, New Orleans, LA, United States.

100. Gattamorta, K., **Lee, O.**, & Penfield, R. D. (2011). *Comparing the performance of English language learners to non-English language learners on a measure of science* [Paper presentation]. American Educational Research Association, New Orleans, LA, United States.

99. Maerten-Rivera, J., & **Lee, O.** (2011). *Teacher change in elementary science instruction with English language learners* [Paper presentation]. American Educational Research Association, New Orleans, LA, United States.

98. Mahotiere, M., Neporcha, C., & **Lee, O.** (2011). *Children of promise: Immigrant Haitian parents’ aspirations for their children* [Paper presentation]. American Educational Research Association, New Orleans, LA, United States.

97. **Lee, O.**, & Penfield, R. D. (2011). *Science achievement of English language learners in urban elementary schools: Multi-year intervention across multiple grades* [Paper presentation]. American Educational Research Association, New Orleans, LA, United States.

96. Penfield, R. D., & **Lee, O.** (2011). *Year 1 of an efficacy trial of promoting science among English language learners (P-SELL): Intervention, results, and limitations* [Paper presentation]. Society for Research on Educational Effectiveness Conference, Washington, DC, United States.

95. Adamson, K., Maerten-Rivera, J., & **Lee, O.** (2010). *Lessons learned during a 5-year professional development intervention promoting science Instruction among English language learners* [Paper presentation]. American Educational Research Association, Denver, CO, United States.

94. **Lee, O.**, Penfield, R. D., & Buxton, C. A. (2010). *Relationship between “form” and “content” in science writing among English language learners* [Paper presentation]. American Educational Research Association, Denver, CO, United States.

93. Maerten-Rivera, J., Myers, N., **Lee, O.**, & Penfield, R. D. (2010). *Student and school predictors of high-stakes assessment in science* [Paper presentation]. American Educational Research Association, Denver, CO, United States.

92. Adamson, K. H., Secada, W. G., Maerten-Rivera, J., & **Lee, O.** (2009). *The impact of an integrated mathematics and science curriculum on third-grade students’ measurement* *achievement* [Paper presentation]. American Educational Research Association, San Diego, CA, United States.

91. Cone, N., Mahotiere, M., Buxton, C. A., & **Lee, O.** (2009). *Comparing or complementary? Home and school identity formation of Haitian youth in South Florida* [Paper presentation]. American Educational Research Association, San Diego, CA, United States.

90. Huggins, A. C., Penfield, R. D., **Lee, O.**, & Maerten-Rivera, J. (2009). *Student mobility and science achievement: The impact of intervention exposure on the efficacy of a 3-year science intervention* [Paper presentation]. American Educational Research Association, San Diego, CA, United States.

89. Santau, A. O., Buxton, C. A., & **Lee, O.** (2009). *Science and literacy assessments with English language learners* [Paper presentation]. American Educational Research Association, San Diego, CA, United States.

88. Santau, A. O., Maerten-Rivera, J., Cone, N., & **Lee, O.** (2009). *Relationships among domains of teachers’ knowledge and practices in science with English language learners* [Paper presentation]. American Educational Research Association, San Diego, CA, United States.

87. Adamson, K., Maerten-Rivera, J., & **Lee, O.** (2008). *Teachers’ perspectives on a professional development intervention to improve science instruction among English language learners* [Paper presentation]. American Educational Research Association, New York, NY, United States.

86. **Lee, O.** (2008). *Cultural and home language influences on children’s responses to science assessments* [Symposium]. American Educational Research Association, New York, NY, United States.

**85. Lee, O., & Penfield, R. D. (2008). *Methodological issues in an urban study* [Paper presentation]. DR-K12 PI meeting of the National Science Foundation, Washington, DC, United States.**

84. Lewis, S., Adamson, K., Maerten-Rivera, J., **Lee, O.**, & Secada, W. G. (2008). *Relationships between science practices and English language practices in urban elementary classrooms* [Paper presentation]. American Educational Research Association, New York, NY, United States.

83. Mahotiere, M., Maerten-Rivera, J., & **Lee, O.** (2008). *Science writing achievement among English language learners: Results of 3-year intervention in urban elementary schools* [Paper presentation]. American Educational Research Association, New York, NY, United States.

82. Maerten-Rivera, J., Penfield, R. D., Myers, N., Buxton, C. A., & **Lee, O.** (2008). *Relationship of school and teacher variables to science instruction practices with English language learners* [Paper presentation]. American Educational Research Association, New York, NY, United States.

81. Santau, A., Maerten-Rivera, J., Cone, N., & **Lee, O.** (2008). *Urban elementary school teachers’ knowledge and practices in teaching science to English language learners* [Paper presentation]. American Educational Research Association, New York, NY, United States.

80. Buxton, C. A., Mahotiere, M., **Lee, O.**, & Secada, W. G. (2007). *Bringing culture in through the back door: 3rd grade teachers analyze English language learners’ reasoning about measurement* [Paper presentation]. American Educational Research Association, Chicago, IL, United States.

79. Lewis, S., Adamson, K., Maerten-Rivera, J., **Lee, O.**, & Secada, W. G. (2007). *Urban elementary school teachers’ knowledge and practices in the context of teaching science to English language learners* [Paper presentation]. American Educational Research Association, Chicago, IL, United States.

78. Maerten-Rivera, J., Penfield, R. D., Myers, N., & **Lee, O.** (2007). *Relationship of school and teacher variables to science instruction practices with English language learning (ELL) students* [Paper presentation]. Florida Educational Research Association, Tampa, FL, United States.

77. Maerten-Rivera, J., **Lee, O.**, Buxton, C. A., Penfield, R. D., & Secada, W. G. (2007). *Urban elementary school teachers’ perceived knowledge, practices, and organizational supports and barriers in science instruction with English language learners* [Paper presentation]. American Educational Research Association, Chicago, IL, United States.

76. Mahotiere, M., Elliott, M., Santau, A., Buxton, C. A., & **Lee, O.** (2007). *Examining science knowledge and reasoning skills of third grade ELL students* [Paper presentation]. American Educational Research Association, Chicago, IL, United States.

75. Buxton, C. A., **Lee, O.**, Lewis, S., Adamson, K., Carr-LeRoy, K., Santau-Sodhi, A., . . . Maerten-Rivera, J. (2006). *Promoting science among English language learners in a high-stakes testing policy context* [Symposium]. National Association for Research in Science Teaching, San Francisco, CA, United States.

74. **Lee, O.** (2005). *Examining modifications of curriculum units for student groups in multilingual, multicultural, or urban contexts* [Paper presentation]. American Educational Research Association, Montreal, Canada.

73. Hart, J., & **Lee, O.** (2005). *Case studies in culturally relevant science teaching: Linking teacher beliefs and practices to student achievement* [Paper presentation]. American Educational Research Association, Montreal, Canada.

72. Lester, B., Ma, L., **Lee, O.**, & Lambert, J. (2005). *Social activism in elementary science education: An STS approach to teach global warming* [Paper presentation]. American Educational Research Association, Montreal, Canada.

71. Lambert, J., & **Lee, O.** (2005). *Diverse students’ achievement and perceptions of an inquiry-based earth systems curriculum* [Paper presentation]. National Association for Research in Science Teaching, Dallas, TX, United States.

70. Buxton, C. A., **Lee, O.**, Luykx, A., & Shaver, A. (2005). *Elementary teachers’ beliefs and practices regarding linguistic and cultural diversity in science and literacy instruction* [Paper presentation]. National Association for Research in Science Teaching, Dallas, TX, United States.

69. Atwater, M., Chinn, P., Key, S., Arambula-Greenfield, T., & **Lee, O.** (2005). *The research lens on science teacher education* [Symposium]. National Association for Research in Science Teaching, Dallas, TX, United States.

68. **Lee, O.**, & Luykx, A. (2004). *Scaling up of instructional interventions with elementary students* [Paper presentation]. American Educational Research Association, San Diego, CA, United States.

67. Tharp, R. G., Genessee, F., Datnow, A. L., **Lee, O.**, Cooper, C. R., Knight, S. L., . . . Padron, Y. N. (2004). *Closing the achievement gap: Setting a research agenda for equitable education in the United States* [Presidential invited symposium]. American Educational Research Association, San Diego, CA, United States.

66. Luykx, A., **Lee, O.**, Hart, J., & Lester, B. (2004). *Cultural and home language influence in elementary students’ constructed responses on science assessments* [Paper presentation]. American Educational Research Association, San Diego, CA, United States.

65. Cuevas, P., **Lee, O.**, Hart, J., & Deaktor, R. (2004). *Promoting science inquiry with students from diverse languages and cultures* [Paper presentation]. American Educational Research Association, San Diego, CA, United States.

64. Lambert, J., Lester, B., & **Lee, O.** (2004). *Professional development in earth systems education: Teacher beliefs and practices in promoting science and English language and literacy* [Paper presentation]. National Association for Research in Science Teaching, Vancouver, Canada.

63. Deaktor, R., **Lee, O.**, & Enders, C. (2003). *Impact of an instructional intervention on science and literacy achievement* [Paper presentation]. American Educational Research Association, Chicago, IL, United States.

62. Hart, J., **Lee, O.**, & Enders, C. (2003). *Promoting science and literacy among linguistically diverse students: Impact of instructional intervention on teacher knowledge, beliefs, and practices* [Paper presentation]. American Educational Research Association, Chicago, IL, United States.

61. Luykx, A., **Lee, O.**, & Lambert, J. (2003). *Gauging instructional congruence in elementary science classrooms: Methodological application of a theoretical framework* [Paper presentation]. American Educational Research Association, Chicago, IL, United States.

60. **Lee, O.**, and others. (2003). *Inquiry in the classroom* [Symposium]. National Association for Research in Science Teaching, Philadelphia, PA, United States.

59. **Lee, O.** (2003). *Scaling up of instructional intervention for science and literacy with linguistically diverse elementary students in urban schools* [Paper presentation]. National Association for Research in Science Teaching, Philadelphia, PA, United States.

58. **Lee, O.**, and others. (2003). *CREDE Institute–Diversity in education* [Symposium]. National Association for Bilingual Education, New Orleans, LA, United States.

57. Bessell, A. G., **Lee, O.**, Schumm, J. S., Barza, L., & Rangel, A. (2002). *The many faces of success: Lessons learned from South Florida Annenberg Challenge case studies* [Paper presentation]. American Educational Research Association, New Orleans, LA, United States.

56. **Lee, O.**, Cuevas, P., Deaktor, R., Hart, J., Ceballos, M., Laurence, S., & Palomo, E. (2002). *Promoting science and literacy for linguistically diverse elementary students* [Symposium]. American Educational Research Association, New Orleans, LA, United States.

55. **Lee, O.**, Lambert, J., Cuevas, P., Deaktor, R., & Hart, J. (2002). *Instructional intervention to promote science and literacy for linguistically diverse elementary students* [Paper presentation]. National Association for Research in Science Teaching, New Orleans, LA, United States.

54. García, G., Reyes, I., **Lee, O.**, Deaktor, R., & Hart, J. (2002). *Science instruction for all: Promoting science and literacy for linguistically diverse elementary students* [Symposium]. National Association for Bilingual Education, Philadelphia, PA, United States.

53. **Lee, O.**, Fradd, S. H., & Campbell, A. (2001). *Promoting science inquiry with linguistically diverse elementary students* [Paper presentation]. American Educational Research Association, Seattle, WA, United States.

52. **Lee, O.**, & Fradd, S. H. (2001). *Instructional congruence for linguistically diverse students in science education* [Paper presentation]. National Association for Research in Science Teaching, St. Louis, MO, United States.

51. Rangel, A., Barza, L., Bessell, A., **Lee, O.**, & Schumm, J. (2001). *Case study of the South Florida Annenberg Challenge project* [Paper presentation]. American Educational Research Association, Seattle, WA, United States.

50. **Lee, O.**, & Fradd, S. H. (2000). *Teacher learning and change in science and literacy instruction for linguistically diverse students* [Paper presentation]. American Educational Research Association, New Orleans, LA, United States.

49. **Lee, O.** (1999). *Worldviews: Ethnicity, gender, and social class* [Paper presentation]. Preconference NARST workshop at the meeting of the National Association for Research in Science Teaching, Boston, MA, United States.

48. **Lee, O.**, & Fradd, S. H. (1999). *Instructional congruence for linguistically diverse students in science education* [Paper presentation]. National Association for Research in Science Teaching, Boston, MA, United States.

47. **Lee, O.** (1999). Science instruction for language enriched pupils*.* In *Creating a multilingual global work force: Enabling students from diverse language backgrounds to achieve parity within the mainstream* [Symposium]. American Educational Research Association, Montreal, Canada.

46. **Lee, O.** (1999). Science learning: Instruction and assessment in the classroom. In *Promoting mathematics and science learning for students from diverse languages and cultures* [Symposium]. American Educational Research Association, Montreal, Canada.

45. Fradd, S. H., & **Lee, O.** (1999). *Needed: A framework for integrating standardized and informal assessment for students developing academic language proficiency in English* [Paper presentation]. American Educational Research Association, Montreal, Canada.

44. **Lee, O.** (1998). Cultural and linguistic competence in talking about science*.* In *Discourse perspectives in science education: Theories, methods, and future directions* [Symposium]. National Association for Research in Science Teaching, San Diego, CA, United States.

43. **Lee. O.** (1998). Current conceptions of science achievement and implications for assessment and equity in large education systems*.* In *Evaluating systemic initiatives* [Symposium]. American Educational Research Association, San Diego, CA, United States.

42. **Lee, O.**, & Fradd, S. H. (1998). *Linguistically diverse students’ perceptions of science education* [Paper presentation]. American Educational Research Association, San Diego, CA, United States.

41. **Lee, O.**, & Fradd, S. H. (1998). *Instructional congruence for linguistically diverse students in science education* [Paper presentation]. American Educational Research Association, San Diego, CA, United States.

40. Fradd, S. H., & **Lee, O.** (1998). *Multiple representations by linguistically diverse students* [Paper presentation]. American Educational Research Association, San Diego, CA, United States.

39. Fradd, S. H., & **Lee, O.** (1998). *Promoting language development through science learning* [Paper presentation]. Teaching English to Speakers of Other Languages 32nd Meeting, Seattle, WA, United States.

38. Fradd, S. H., & **Lee, O.** (1998). Inquiry based hands-on science with linguistically diverse students.In *More effective learning outcomes from inquiry-based science laboratory instruction* [Symposium]. American Association for the Advancement of Science and Science Innovation Exposition, Philadelphia, PA, United States.

37. **Lee, O.**, Fradd, S. H., & Sutman, F. X. (1997). *Science conceptions among linguistically diverse students* [Paper presentation]. American Educational Research Association, Chicago, IL, United States.

36. Jones, L., Aikenhead, G. S., Atwater, M. M., **Lee, O.**, Lynch, S. J., & Rodríguez, A. J. (1997). *Science education for all? Can we achieve educational equity without an antiracist critique* [Symposium]? National Association for Research in Science Teaching, Chicago, IL, United States.

35. **Lee, O.** (1997). *Issues of science learning: School and classroom-based policies and practices* [Paper presentation]. American Educational Research Association, Chicago, IL, United States.

34. **Lee, O.**, & Fradd, S. H. (1997). *Using instructional assessment to promote science learning* [Paper presentation]. Teachers of English to Speakers of Other Languages, Orlando, FL, United States.

33. **Lee, O.**, & Fradd, S. H. (1996). *The interplay among language, science knowledge, and cognitive strategy use with linguistically diverse students* [Paper presentation]. American Educational Research Association, New York, NY, United States.

32. Fradd, S. H., & **Lee, O.** (1996). *Program evaluation as an on-going process for model program development: A case study of an ESOL teacher education program* [Paper presentation]. American Educational Research Association, New York, NY, United States.

31. **Lee, O.**, & Fradd, S. H. (1996). *Interactional patterns of linguistically diverse students during science performance* [Paper presentation]. National Association for Research in Science Teaching, St. Louis, MO and the Intercultural/International Communication Conference, Miami, FL, United States.

30. Atwater, M., Elleman, J. E., **Lee, O.**, & Lynch, S. (1996). *Project 2061 equity blueprint* [Symposium]. National Association for Research in Science teaching, St. Louis, MO, United States.

29. Fradd, S. H., **Lee, O.**, & Merrill, H. (1996). *Measuring students’ understanding of literacy and science* [Paper presentation]. Teaching English to Speakers of Other Languages, Chicago, IL, United States.

28. Atwater, M., **Lee, O.**, Lynch, S., Ross, P., & Stefanich, G. (1995). *Project 2061 equity blueprint* [Symposium]. American Association of Colleges for Teacher Education, Chicago, IL, United States.

27. **Lee, O.** (1995). *Children’s views of the world in social and cultural contexts* [Paper presentation]. American Educational Research Association, San Francisco, CA, United States.

26. **Lee, O.**, & Fradd, S. H. (1995). *Science knowledge and cognitive strategies among culturally and linguistically diverse students* [Paper presentation]. American Educational Research Association, San Francisco, CA, United States.

25. Fradd, S. H., & **Lee, O.** (1995). *Interactional patterns during science performance among culturally and linguistically diverse students* [Paper presentation]. American Educational Research Association, San Francisco, CA, United States.

24. Atwater, M., Eccles, J., Elleman, J. E., **Lee, O.**, Lynch, S., & Secada, W. G. (1995). *Project 2061 equity blueprint* [Symposium]. National Association for Research in Science Teaching, San Francisco, CA, United States.

23. Burns-Hoffman, R., Fradd, S. H., & **Lee, O.** (1994). *Patterns of anaphora in students’ expository discourse* [Paper presentation]. Boston University Conference on Language Development, Boston, MA, United States.

22. **Lee, O.** (1994). *Children’s views of the world in social and cultural contexts* [Paper presentation]. Spencer Fellows Forum, the National Academy of Education Meeting, New Orleans, LA, United States.

21. **Lee, O.**, Cuevas, G., & Francisco, J. (1994). *Staff development model in elementary school mathematics and science: Impact on teachers and students* [Paper presentation]. American Educational Research Association, New Orleans, LA, United States.

20. **Lee, O.**, & Fradd, S. H. (1994). *Science knowledge, cognitive strategies, and motivational orientations of culturally and linguistically diverse students* [Paper presentation]. National Association for Research in Science Teaching, Anaheim, CA, United States.

19. Fradd, S. H., & **Lee, O.** (1994). *Literacy skills and science knowledge across culturally and linguistically diverse students* [Paper presentation]. National Association for Research in Science Teaching, Anaheim, CA, United States.

18. Fradd, S. H., & **Lee, O.** (1993). *Collecting and analyzing language samples of student performance: How can we do it? What can we learn* [Paper presentation]? Southeast TESOL Regional Conference, Fort Lauderdale, FL, United States.

17. **Lee, O.**, & Cuevas, G. (1993). *Collaboration for teacher enhancement in elementary school mathematics and science* [Paper presentation]. American Educational Research Association, Atlanta, GA, United States.

16. **Lee, O.** (1993). *Style, little substance in the complexities of classroom teaching* [Paper presentation]. Intercultural/International Communication Conference, Miami, FL, United States.

15. **Lee, O.** (1991). *Achievement and motivation in middle school science classrooms* [Paper presentation]. American Educational Research Association, Chicago, IL, United States.

14. **Lee, O.** (1991). *Student motivation in middle school science classrooms* [Paper presentation]. American Educational Research Association, Chicago, IL, United States.

13. **Lee, O.** (1991). *The quality of task engagement as a measure of classroom motivation* [Paper presentation]. American Educational Research Association, Chicago, IL, United States.

12. McIntosh, R. M., Vaughn, S., Schumm, J. S., Gordon, J., & **Lee, O.** (1991). *Observations of planning and adaptations made by teachers for divergent learners in regular classrooms* [Paper presentation]. American Educational Research Association, Chicago, IL, United States.

11. **Lee, O.**, Anderson, C. W., & Eichinger, D. (1990). *Effects of conceptual change approach on student motivation to learn in middle school science classrooms* [Paper presentation]. American Educational Research Association, Boston, MA, United States.

10. **Lee, O.**, Eichinger, D., Anderson, C. W., Berkheimer, G. D., & Blakeslee, T. C. (1989). *Changing middle school students’ conceptions of matter and molecules* [Paper presentation]. American Educational Research Association, San Francisco, CA, United States.

9. **Lee, O.**, & Salwen, M. B. (1989). *Press coverage of education in developed and developing nations: A comparison of the United States and the Republic of Korea* [Paper presentation]. American Educational Research Association, San Francisco, CA, United States.

8. **Lee, O.**, & Anderson, C. W. (1988). *The relationship between student motivation to learn science and conceptual understanding in middle school* [Paper presentation]. American Educational Research Association, New Orleans, LA, United States.

7. **Lee, O.**, & Porter, A. C. (1988). *Bounded rationality in classroom teaching* [Paper presentation]. American Educational Research Association, New Orleans, LA, United States.

6. Eichinger, D., & **Lee, O.** (1988). *Alternative students’ conceptions of kinetic molecular theory* [Paper presentation] National Association for Research in Science Teaching, Lake Ozark, MO, United States.

5. **Lee, O.** (1987). *Teacher expectations and differential treatment of whole classes in middle school science: Bounded rationality* [Paper presentation]. American Educational Research Association, Washington, DC, United States.

4. Contreras, A., & **Lee, O.** (1987). *Differential treatment of students by middle school science teachers: Unintended cultural bias* [Paper presentation]. National Association for Research in Science Teaching, Washington, DC, United States.

3. **Lee, O.**, & Gallagher, J. J. (1987). *Continuing professional development activities of secondary school science teachers* [Paper presentation]. National Association for Research in Science Teaching, Washington, DC, United States.

2. **Lee, O.**, & Gallagher, J. J. (1986). *Middle school science teachers’ perceptions of their instructional roles* [Paper presentation]. National Association for Research in Science Teaching, San Francisco, CA, United States.

1. **Lee, O.**, & Gallagher, J. J. (1986). *Differential treatment of individual students and whole classes by middle school science teachers* [Paper presentation]. National Association for Research in Science Teaching, San Francisco, CA, United States.

**COURSES TAUGHT**

2011-present Steinhardt School of Culture, Education, and Human Development,

 New York University, New York, New York

LANED-GE 2039 Advanced Individual Projects in Multilingual and

 Multicultural Studies

CHDED-UE 1141 Integrated Curricula in Science, Health, and

 Mathematics in Childhood Education

CHDED Student Teacher Supervision

1989-2011 School of Education, University of Miami, Coral Gables, Florida

 Taught undergraduate and graduate courses for Department of

 Educational and Psychological Studies (EPS) and Department of Teaching and Learning (TAL):

EPS 553 Introduction to Educational Statistics

EPS 605 Psychological Bases of Education

EPS 650 Essentials of Educational Research

EPS 651 Qualitative and Descriptive Research in Education

TAL 103 Psychological Foundations of Education

 TAL 423 Science and Social Studies Instruction in the

 Elementary School

TAL 444 Methods for Teaching Science in Secondary School

TAL 501 Classroom-Based Measurement

TAL 502 Classroom-Based Research

TAL 519 Equity in Mathematics, Science, and Technology

TAL 594 Workshop in Education: Middle School Science

TAL 641 Curriculum Development for TESOL (team

 teaching)

TAL 660 Theories and Applications of Instruction

TAL 741 Doctoral Seminar on Teaching and Teacher

 Education in Mathematics and Science

**DOCTORAL DISSERTATION AND MASTER’S THESIS COMMITTEES**

2015-present Steinhardt School of Culture, Education, and Human Development,

 New York University, New York, New York

 Academic Advisor and Dissertation Chair

1. Leah Master (Department of Teaching and Learning)
2. Alison Haas (Department of Teaching and Learning; Co-Chair)

Dissertation Committee Member

1. Scott E. Grapin (Department of Teaching and Learning)

Outside Reader

1. Kat Adams (Department of Applied Psychology)
2. Jinjoo Han (Department of Teaching and Learning)

 Outside Member at Other Institutions

2. Emily Adah (College of Education, University of Wisconsin–Madison)

1. Julio Lopez-Ferrao (School of Education, George Mason University)

1990-2014 School of Education, University of Miami, Coral Gables, Florida

 Academic Advisor and Dissertation Chair

4. Georgina Lindskoog (Department of Teaching and Learning)

3. Brandon Diamond (Department of Teaching and Learning)

2. Alexandra Santau (Department of Teaching and Learning)

1. Carolyn Thurmond (Department of Teaching and Learning)

 Dissertation Committee Member (listed alphabetically)

 28. Adamson, Karen (Teaching and Learning)

 27. Alexander, Karlene (Teaching and Learning)

 26. Brammer, Norman (Higher Education)

 25. Caballero, Alexander (Educational Leadership)

 24. Campbell, Aubrey (Teaching and Learning)

 23. Chesley, Josephine (Educational Leadership)

 22. DeNight, Shawn (Teaching and Learning)

 21. Elliott, Marcella (Teaching and Learning)

 20. Forgan, Jim (Special Education and Reading)

 19. Francisco, Janet (Teaching and Learning)

 18. Giroux, Valerie (Educational Leadership)

 17. Hathcock, Francis (Educational Leadership)

 16. Hughes, Marie (Special Education and Reading)

 15. Karp, Martin, S. (Educational Leadership)

 14. King, Stephanie (Teaching and Learning)

 13. Linn, Larraine (Teaching and Learning)

 12. Ma, Li (Teaching and Learning)

 11. Maerten-Rivera, Jaime (Research, Measurement, and Evaluation)

 10. Marquard, Kenneth, R. (Special Education and Reading)

 9. Powers, Kathy (Special Education and Reading)

 8. Rassi, Loudes, C. (Educational Leadership)

 7. Salinas, Alejandra (Teaching and Learning)

 6. Saumell, Linda (Special Education and Reading)

 5. Sharpe, Sheree (Teaching and Learning)

 4. Skaruppa, Cindy (Educational Leadership)

 3. Vandiver, Fran (Educational Leadership)

 2. Walsh-Minor, Regina (Higher Education)

 1. Whitely, Patricia (Educational Leadership)

1992-2014 Outside Reader

 6. Shaunna Donaher (Meteorology and Physical Oceanography)

 5. Shiunn-Hyuan Luoh (Master’s thesis in School of Communication)

 4. Wilson R. Palacios (Master’s thesis in Department of Sociology)

 3. M. D. Reed (Master’s thesis in School of Communication)

 2. Marcus R. Kronforst (Senior thesis)

 1. Hallee N. Zaslavsky (Senior thesis)

**SERVICE TO NEW YORK UNIVERSITY**

2021-present Dean’s Promotion and Tenure Committee, Steinhardt School of Culture, Education, and Human Development

2020-2022 Department of Teaching and Learning Doctoral Committee, Steinhardt School of Culture, Education, and Human Development

2018-2022 Department of Teaching and Learning Promotion and Tenure Committee, Steinhardt School of Culture, Education, and Human Development

2021 Presentation for NYU faculty: *Demystifying the Review Process at the National Science Foundation*

2018-2021 Dean’s Promotion and Tenure Advisory Committee (Alternate), Steinhardt School of Culture, Education, and Human Development

2019-2020 Faculty First Look Mentor, Steinhardt School of Culture, Education, and Human Development

2019-2020 Dean Search Committee, Steinhardt School of Culture, Education, and Human Development

2019 Associate to Full Professor Workshop, Steinhardt School of Culture, Education, and Human Development

2018 Discussion panel, *Fundraising Fundamentals: The Importance of Fundraising From Government, Corporate and Private Foundations*, sponsored by Steinhardt School of Culture, Education, and Human Development

2018 Workshop facilitator, *A New Professional Development Opportunity–The Steinhardt Pilot Grant Writing Workshops*, sponsored by Steinhardt School of Culture, Education, and Human Development

2017-2018 Co-Chair, Peter L. Agnew Professor of Education Chair Search Committee, Steinhardt School of Culture, Education, and Human Development

2017 Faculty spotlight presentation at the faculty meeting of Steinhardt School of Culture, Education, and Human Development

2017 Grant writing presentation, sponsored by the Office of Research at Steinhardt School of Culture, Education, and Human Development

2017 IES discussion panel, sponsored by the Office of Research at Steinhardt School of Culture, Education, and Human Development

2014-2017 Promotion and Tenure Committee, Department of Teaching and Learning

2013-2017 Co-Chair, Doctoral Committee, Department of Teaching and Learning, Steinhardt School of Culture, Education, and Human Development

2014-2015 Music Education Search Committee, Steinhardt School of Culture, Education, and Human Development

2014-2015 Childhood Education and Multilingual and Multicultural Studies Search Committee, Department of Teaching and Learning

2014 Attendance at New York University Korean Alumni Association event in South Korea

2014 Dean’s Convocation for New Undergraduate Students, Steinhardt School of Culture, Education, and Human Development

2014 Faculty Speaker at Baccalaureate Ceremony, Steinhardt School of Culture, Education, and Human Development

2013-2014 Dean Search Committee, Steinhardt School of Culture, Education, and Human Development

2013-2014 Search Committee for Multilingual and Multicultural Studies, Department of Teaching and Learning

2013 *NSF Grant Funding*, sponsored by the Office of Research and Doctoral Studies at Steinhardt School of Culture, Education, and Human Development

2012-2013 Search Committee for Music Education, Steinhardt School of Culture, Education, and Human Development

2011-2013 Teacher Education Working Group, Steinhardt School of Culture, Education, and Human Development

2011-2013 Cabinet for the Department of Teaching and Learning

**SERVICE TO THE UNIVERSITY OF MIAMI**

2010 Grand Marshall for Commencement Ceremony

2010 Provost’s Award for Scholarly Activity Selection Committee

 *Note:* The Committee selected three to five faculty members for University-wide awards based on research productivity.

2008-2010 University of Miami Fellows Selection Committee

 *Note:* The Committee selected incoming doctoral students for University-wide fellowship awards.

2007-2010 School of Education Research Policy Committee, School of Education

2006-2007 Search Committee for the Associate Provost and Dean of Graduate School

2004-2007 School Council, School of Education

2006 Search Committee for the Dean of the School of Education

2000-2003 Committee for the School of Education Research Center, School of Education

1999-2001 Strategic Planning Committee for the Library

1999-2001 Faculty Diversity Recruitment Committee, School of Education

1999-2001 School Council, School of Education

1994-2000 English to Speakers of Other Languages/Bilingual Education Committee, Department of Teaching and Learning

1993-2000 Undergraduate Secondary Education Committee, Department of Teaching and Learning

1999 Chair, Task Force on Improving the Quality and Visibility of the School’s Research, School of Education

1998-1999 Chair, Ad Hoc Committee on Funded Projects, Department of Teaching and Learning

1998-1999 Search Committee for the Department of Teaching and Learning

1996-1997 Chair, Doctoral Programs Committee, Department of Teaching and Learning

1996-1997 Chair, Search Committee for the Chairperson of the Department of Teaching and Learning

1994-1995 Preparation of the *Conceptual Framework/Knowledge Base* document for the National Council for Accreditation of Teacher Education review

1994-1995 Preparation of the folio for the Undergraduate Secondary Science Education Program to the Florida Department of Education

1992 Preparation of a comprehensive report on the faculty and student affairs during the 1987-1992 academic years in the School of Education

**COMMUNITY SERVICE**

2011, 2012, 2013 Judge, Miami-Dade Public Schools Elementary School Science Fair, Miami, FL

 *Note:* The P-SELL project received a certificate of appreciation for its contribution to improving science education in the school district.

1998 Judge, MCI International Scholar Awards, Miami, FL

1991-1992 Newspaper Columnist, *Korean-American Journal,* a 20,000-circulation newspaper serving Korean readers in Florida, contributed twice-monthly columns on education issues

October 1, 2021