

Curriculum Vitae

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EDUCATION

Indiana University, Department of Curriculum & Instruction, School of Education (Bloomington, IN). Ph.D. in Curriculum & Instruction with an emphasis in Science Education (May 2008). Dissertation: Teacher-student interaction: The overlooked dimension of inquiry-based professional development. 2003-2008

Southeast Missouri State University, Department of Biology, College of Science and Mathematics (Cape Girardeau, MO). Master of Natural Science with an emphasis in Science Education (May, 2002). Thesis: Training biology teachers to implement investigative case-based learning. 1999-2002

Goias Federal University, Department of Chemistry, Chemistry (Goiania, Brazil). B.S. in Chemistry (April 1997). 1993-1997

AWARDS & HONORS

- 2013 NARST Early Career Research Award, Rio Grande, Puerto Rico.
- 2010 NARST Service Recognition for soliciting and reviewing pre-conference proposals for the 2010 NARST conference.
- 2008 Distinguished Paper Award for the best publication in Cultural Studies of Science Education during the Year 2007.
- 2004 Clyde and Bessie L. Lineback Fellowship at Honors Day, Indiana University.
- 2002 "Certificate of Academic Distinction" for academic excellence in Graduate Studies, Southeast Missouri State University.
- 1998 Steven's Summer Research Assistantship, Chemistry Department, University of Missouri-Columbia.

SCHOLARLY PUBLICATIONS

Refereed Journals

- Oliveira, A.W., & Cronemberger, F.A. (under review). The Semantic Gravity of Student Science Writing: Patterns of Concreteness and Abstraction in Lab Reports. *International Journal of Science Education*.
- Oliveira, A.W., & Brown, A.O. (accepted). Exemplification in Science Instruction: Teaching and Learning through Examples. *Journal of Research in Science Teaching*.
- Oliveira, A.W., & Cook, K. (accepted). Student Visual Communication of Evolution. *Research in Science Education*.
- Oliveira, A.W. (2015). Reading Engagement in Science: Elementary Students' Read-Aloud Experiences. *International Journal of Environmental and Science Education*, 10(3), 429-451.
- Oliveira, A.W., Rogers, P., Quigley, C.F., Samburskiy, D., Barss, K., & Rivera, S. (2015). Environmental agency in read-alouds. *Cultural Studies of Science Education*, 10 (2), 247-274.
- Cook, K., & Oliveira, A.W. (2015). Communicating Evolution: An Exploration of Students' Skills in an Essential Practice of Science. *Electronic Journal of Science Education*, 19(5), 1-23.
- Oliveira, A.W., Meskill, C., Judson, D., Gregory, K., Rogers, P., Imperial, C.J., & Casler-Failing, S. (2015). Language Repair Strategies in Bilingual Tutoring of Mathematics Word Problems. *Canadian Journal of Science, Mathematics and Technology Education*, 15(1), 102-115.
- Oliveira, A.W., Weiland, I., & Hsu, T.-F. (2015). Food Appraisal: Discussing Healthy Diet and Eating in Elementary Science. *Electronic Journal of Science Education*, 19(2), 1-24.
- Reis, G., & Oliveira, A.W. (2014). Environmental discourses in science education: Contributions to democracy, citizenship and social justice (Special Issue Editorial). *Brazilian Journal of Research in Science Education*, 14(2), 9-26.
- Oliveira, A.W., Boz, U., Broadwell, G.A., & Sadler, T.D. (2014). Student Leadership in Small-Group Science Inquiry. *Research in Science & Technological Education*, 32 (3), 281-297.
- Oliveira, A.W., Rivera, S., Glass, R., Mastroianni, M., Wizner, F. & Amodeo, V. (2014). Multimodal Semiosis in Read-Alouds: Extending Beyond Text Delivery. *Research in Science Education*, 44(5), 651-673.

- Glass, R., & Oliveira, A.W. (2014). Science Language Accommodation in Elementary School Read-Alouds. *International Journal of Science Education*, 36(4), 577-609.
- Oliveira, A.W., Reis, G., Chaize, D.O., & Snyder, M.A. (2014). Death Discussion in Science Read-Alouds: Cognitive, Sociolinguistic, and Moral Processes. *Journal of Research in Science Teaching*, 51(2), 117-146.
- Snyder, C., Oliveira, A.W., & Paska, L.M. (2013). STEM career changers' transformation into science teachers. *Journal of Science Teacher Education*, 24(4), 617-644.
- Oliveira, A.W., Rivera, S., Glass, R., Mastroianni, M., Wizner, F., & Amodeo, V. (2013). Teaching science through pictorial models during read-alouds. *Journal of Science Teacher Education*, 24(2), 367-389.
- Oliveira, A.W., Wilcox, K.C., Angelis, J., Applebee, A.N., Amodeo, V., & Snyder, M.A. (2013). Best practice in middle-school science. *Journal of Science Teacher Education*, 24(2), 297-322.
- Oliveira, A.W. (2012). Teacher agency in the performance of inquiry-oriented science curriculum reform. *Cultural Studies of Science Education*, 7(3), 569-577.
- Oliveira, A.W., Akerson, V.L., & Oldfield, M. (2012). Environmental argumentation as sociocultural activity. *Journal of Research in Science Teaching*, 49(7), 869-897.
- Oliveira, A.W., Akerson, V.L., Colak, H., Pongsanon, K., & Genel, A. (2012). The implicit communication of nature of science and epistemology during inquiry discussion. *Science Education*, 96(4), 652-684.
- Oliveira, A.W. (2011). Science communication in teacher personal pronouns. *International Journal of Science Education*, 33(13), 1805-1833.
- Quigley, C.F., Oliveira, A.W., Curry, A., & Buck, G. (2011). Issues and techniques in translating scientific terms from English to Khmer for a university level text in Cambodia. *Language, Culture and Curriculum*, 24(2), 159-177.
- Oliveira, A.W., Cook, K., & Buck, G.A. (2011). Framing evolution discussion intellectually. *Journal of Research in Science Teaching*, 48(3), 257-280.
- Oliveira, A.W. (2010). Engaging students in guided science inquiry discussions; elementary teachers' oral strategies. *Journal of Science Teacher Education*, 21(7), 747-765.
- Oliveira, A.W. (2010). Improving teacher questioning in science inquiry discussions through professional development. *Journal of Research in Science Teaching*, 47(4), 422-453.

- Oliveira, A.W. (2010). Developing elementary teachers' understanding of the discourse structure of inquiry-based science classrooms. *International Journal of Science and Mathematics Education*, 8(2), 247-269.
- Oliveira, A.W. (2010). Developing elementary teachers' understandings of hedges and personal pronouns in inquiry-based science classroom discourse. *Journal of Science Teacher Education*, 21(1), 103-126.
- Oliveira, A. W. (2009). "Kindergarten, can I have your eyes and ears?" Politeness and teacher directive behaviors in inquiry-based science classrooms. *Cultural Studies of Science Education*, 4(4), 803-846.
- Oliveira, A. W. (2009). From professional development to classroom instruction: Addressing issues related to science inquiry discourse. *Cultural Studies of Science Education*, 4(4), 865-873.
- Oliveira, A. W., Colak, H., & Akerson, V. L. (2009). "Who polluted the Potomac?" The translation and implementation of a US environmental story in Brazilian and Turkish classrooms. *Cultural Studies of Science Education*, 4(1), 89-132.
- Oliveira, A. W., Colak, H., & Akerson, V. L. (2009). Curriculum translation and environmental education: Considering issues of discursive intentionality, interpretation, and validity. *Cultural Studies of Science Education*, 4(1), 149-155.
- Oliveira, A. W. & Dhingra, K. (2008). Experiencing science education in the US: The international graduate student perspective. *Cultural Studies of Science Education*, 3(3), 541-553.
- Oliveira, A.W., & Sadler, T.D. (2008). Interactive patterns and conceptual convergence during student collaborations in science. *Journal of Research in Science Teaching*, 45(5), 634-658.
- Oliveira, A.W., Sadler, T.D., & Suslak, D.F. (2007). The linguistic construction of expert identity in professor-student discussions of science. *Cultural Studies of Science Education*, 2(1), 119-150.
- Oliveira, A., Sadler, T., & Suslak, D. (2007). Analyzing language, interaction and outcomes in an inquiry-oriented classroom. *Cultural Studies of Science Education*, 2(1), 165-170.

Book Chapters

- Oliveira, A.W., & Weinburgh, M.H. (*accepted*). Communication models of ELL science instruction. In L.C. de Oliveira (Ed.), *Approaches to Teaching English Language Learners in K-12: Beyond Sheltered Instruction*.

Martinez-Cuenca, I., Florencio-Wain, A.J., & Oliveira, A.W., (*accepted*). What is science education for and what should we be doing in the name of science education? In L.A. Bryan & K. Tobin (Eds.), *Science Education Visions*. New Zealand: Lang.

Oliveira, A.W., & Weinburgh, M.H. (2016). Guided visualization: Promoting ELL science literacies through Images. In L.C. de Oliveira (Ed.), *The Common Core State Standards Literacy in History/Social Studies, Science, and Technological Subjects for English language learners: Grades 6-12* (pp. 91-106). Alexandria, VA: TESOL Press.

Reichen, B., Oliveira, A.W., Oliver, G., & Florencio-Wain, A. (2016). Promoting English language acquisition in secondary mathematics through dialogic integration of instructional technology. In M. Urban & D. Falvo (Eds.), *Improving K-12 STEM Education Outcomes through Technological Integration* (pp. 68-85). Hershey, PA: IGI Global.

Oliveira, A.W. (2015). Assessing Science Communication: An Overview of the Literature. In R. Gunstone (Ed.), *Encyclopedia of Science Education* (pp. 64-66). Germany: Springer.

Oliveira, A.W. (2015). Classroom Assessment of Science Communication Ability (pp. 174-176). In R. Gunstone (Ed.), *Encyclopedia of Science Education*. Germany: Springer.

Oliveira, A.W. (2015). Large-Scale Assessment of Science Communication Ability. In R. Gunstone (Ed.), *Encyclopedia of Science Education* (pp. 176-177). Germany: Springer.

Meskill, C., Oliveira, A., Gregory, K., Oliver, G., Reichen, B., & Witmer, P. (2014). Professional development in support of English learner achievement: Science and ESOL educator collaborations. In L. Minaya-Rowe (Ed.), *Effective Educational Programs, Practices, and Policies for English Learners* (pp. 83-107). Charlotte, NC: Information Age Publishing.

Refereed Conference Proceedings

Pongsanon, K., Oliveira, A. W., Akerson, V. L., Genel, A., & Colak, H. (2008). Getting the big picture: The impact of a summer workshop on teachers' views of scientific inquiry, nature of science and classroom interaction. *NARST Conference Proceedings*.

Hanson, D.L., Akerson, V.L., Donnelly, L., Tira, P., Townsend, J.S., White, O., Oliveira, A.W., Colak, H., & Genel, A. (2006). *Scientific modeling for the inquiring teacher network – A collaborative approach to grant writing and professional development*. ASTE Conference Proceedings.

Oliveira, A.W., & Sadler, T.D. (2006). *Interactive patterns and convergence of meanings during student collaborations in science*. NARST Conference Proceedings.

RESEARCH GRANTS

Funded

- 2014 Awarded \$1,342,537 from NSF to conduct a DIP-Cyberlearning project entitled *Connecting Idea Threads Across Communities for Sustained Knowledge Building*. Role: Co-I.
- 2012 Awarded \$1,877,329 from the US Department of Education to conduct a professional development project entitled *Technology-enhanced multimodal instruction in science and math for English language learners: A program of professional development*. Role: Co-PI.
- 2009 Awarded \$9,243 from The University at Albany Faculty Research Program (FRAP-A) to conduct a project entitled *Exploring teacher performance of science read-alouds in elementary classrooms*.
- 2007 Awarded \$4000 from a competition for summer research funds (E Wayne Gross Fund) to conduct a project entitled *Regulative discourse during the implementation of environmental curricula in a Brazilian elementary classroom*, Indiana University, May.
- 2006 Awarded \$4000 from a competition for summer research funds (E Wayne Gross Fund) to conduct a project entitled *Who polluted the Potomac? – a comparative account of culturally-sensitive and situated instruction*, Indiana University, May.
- 2006 Awarded \$500 from a competition for traveling funds to attend the National Association for Research in Science Teaching, Curriculum & Instruction Department, Indiana University, April.
- 2005-2008 Akerson, V.L., Bonner, J., & Schick, J. & Q612 Graduate Students *Scientific Modeling for Inquiring Teachers Network (SMIT’N)*. Indiana State Department of Education Math and Science Partnership Program. \$290,399.
- 2005 Awarded \$3000 from a competition for summer research funds (E Wayne Gross Fund) to conduct a project entitled *Understandings and cognitive processes in students’ collaborative approaches to scientific inquiry*, Indiana University, May.
- 2004 Awarded \$1500 from a competition for summer research funds (E Wayne Gross Fund) to conduct a project entitled *Interactive patterns and convergence of meaning during student collaborations in science*, Indiana University, May.

1998 Awarded \$3000 Steven's Summer Research Assistantship to conduct a project entitled *Structural determination of human GAPDH*.

Pending or Unfunded

Leung, R., Lin, S., Xue, X., Oliveira, A.W., & Hastings J. (2015). Making a Social Media Platform to Learn Climate Change. Funding Agency: NSF-AISL. \$ 300,356.00 Role: Co- PI. Status: Pending.

Lin, S., Leung, R., Xue, X., Bell, E.M., & Oliveira, A.W. (2015). ITEST Strategies: Building a Sustainable Future: Blending Public Health Education within Environmental Health Science Learning through a Summer Institute for Grades 8-10. Funding Agency: NSF-ITEST. \$1,837,075.00 Role: Co- PI. Status: Pending.

Stromer-Galley, J., Strzalkowski, T., Oliveira, A.W., Folkestad, J., & Martey, R.M. (2014). Collaborative Research: Assessing Collaborative Learning and Automated Feedback in Online Education using the Tools for Higher Education Ensemble Assessment. Funding Agency: NSF-Cyberlearning. \$500,000.00. Role: Co- PI. Status: Not Funded.

Oliveira, A.W., Vuille, M., Goodwin, D., & Vickers, J. (2014). Climate Discovery Games: A Partnership for the Exploration of Game-Based Pedagogical Approaches to Atmospheric Inquiry in Rural Schools. Funding Agency: NSF-MSP. \$1,197,169. Role: PI. Status: Not Funded.

Shea, P., Oliveira, A.W. et al. (2012). SUNY Games: Collaborative Infrastructure Scale-Up of Immersive Environments for STEM and ICT Learning. Funding Agency: NSF-ITEST. \$1,197,710. Role: PI. Status: Not Funded.

Oliveira, A.W., Vuille, M., & Quigley, C. (2013). Teaching Climate Change through Scientific Models. Funding Agency: NOAA. \$926,660.71. Role: PI. Status: Not Funded.

Oliveira, A.W. (2012). CAREER: "Seeing" inquiry-based science classroom interactions through video. Funding Agency: NSF. \$813,274. Role: PI. Status: Not Funded.

Meskill, C. & Oliveira, A.W. (2012). MOP: A Multimodal observation protocol for the teaching of high school science to English language learners. Funding Agency: NSF. \$298,000. Role: PI. Status: Not Funded.

Applebee, A.N., Langer, J., & Oliveira, A.W. (2011). Writing science: A collaborative design research project to develop an intervention to support discipline-based writing instruction in middle-grade science. Funding Agency: Institute of Education Sciences. \$1,429,227. Role: Co-PI. Status: Not Funded.

- Oliveira, A.W. (2011). Teaching science through pictures in children's books during read-alouds. Funding Agency: Spencer. \$39,921. Role: PI. Status: Not Funded.
- Oliveira, A.W. (2010). CAREER: "Seeing" inquiry-based science classroom interactions through video. Funding Agency: NSF. \$708,026. Role: PI. Status: Not Funded.
- Oliveira, A.W., Vuille, M., Schwab, M., Amodeo, V., & Sullivan, E. (2010). *You're getting warmer: Finding clues to global climate change through scientific modeling*. Funding Agency: NASA. \$722,535.44. Role: PI. Status: Not Funded.
- Powers, S.E., Driscoll, C.T., Oliveira, A.W., & Ratcliffe, S. (2010). *Climate CARES – Climate change in the Adirondack region: Education and science*. Funding Agency: NSF. \$753,072.00. Role: Co-PI. Status: Not Funded.
- Akerson, V.L., Oliveira, A.W., Cullen, T., Townsend, S., & Hanuscin, D. (2010). *Understanding the nature of science through communities of practice: A hybrid model for teacher professional development*. Funding Agency: National Science Foundation. \$2,675,261. Role: Co-PI. Status: Not funded.

PRESENTATIONS

Refereed Conferences

- Oliveira, A.W., & Brown, A. (2016, April). *Exemplification in science instruction: Teaching and learning through examples*. Paper presented at the annual meeting of National Association for Research in Science Teaching, Baltimore, MD.
- Cronemberger, & Oliveira, A.W. (2016, March). *The semantic gravity of student science writing: Patterns of concreteness and abstraction in lab reports*. Paper presented at the Brazilian Graduate Students Conference. Cambridge, MA.
- Oliveira, A.W., & Brown, A. (2016, January). *Exemplification in science instruction: Teaching and learning through examples*. Paper presented at the International Meeting of the Association for Science Teacher Education, Reno, NV.
- Oliveira, A.W., & Akerson, V.L. (2015, September). *Environmental Agency in Classroom Argumentation: Crossing Sociocultural and Sociocognitive Boundaries*. Paper presented at the Biannual meeting of the European Science Education Research Association, Helsinki, Finland.
- Oliver, G., Reichen, B., Florencio-Wain, A., Judson, D., Oliveira, A., & Rodgers, C. (2015, August). *Structured Reflection: Inquiring about Practice and Seeing Student Learning*. Poster presented at School of Education Day: A Celebration of Innovations and Advancements, Albany, NY.
- Brown, A.O., & Oliveira, A.W. (2015, July). *Teaching by Example: A Pedagogical Approach to Animal Biology Instruction*. Paper presented at the Western Conference on Science Education, London, ON, Canada.

- Cook, K., & Oliveira, A.W. (2015, April). *High School Students' Public Communication about Evolution*. Paper presented at the annual meeting of American Educational Research Association, Chicago, IL.
- Oliveira, A.W., & Cook, K. (2015, January). *Communicating Evolution to the Public: A Communicative Approach to Controversial Science Instruction*. Paper presented at the 2015 International Meeting of the Association for Science Teacher Education, Portland, OR.
- Weiland, I., Oliveira, A.W., & Hsu, T.-F. (2015, January). *Food discourse in science read-alouds*. Paper presented at the 2015 International Meeting of the Association for Science Teacher Education, Portland, OR.
- Reis, G., & Oliveira, A.W. (2014, October). *Promoting Democracy, Citizenship, and Justice Through Environmental Education*. Paper presented at the annual conference of the North American Association for Environmental Education, Ottawa, Canada.
- Oliveira, A.W., & Reis, G. (2014, May). *Dealing with Death of Classroom Pet in Elementary Science*. Paper presented at the annual conference of The Canadian Society for the Study of Education, Saint Catharines, ON, Canada.
- Oliveira, A.W., Sadler, T.D., & Nash, C.M. (2014, April). *Socioscientific Intertextuality in Secondary Science*. Paper presented at the annual meeting of National Association for Research in Science Teaching, Pittsburgh, PA.
- Wizner, F., & Oliveira, A.W., (2014, April). *Assessing Learning through Scientific Humor: The Views and Practices of a College Biology Instructor*. Paper presented at the annual meeting of National Association for Research in Science Teaching, Pittsburgh, PA.
- Wizner, F., & Oliveira, A.W., (2014, April). *Assessing Learning through Scientific Humor: The Views and Practices of a College Biology Instructor*. Paper presented at the annual meeting of American Educational Research Association, Philadelphia, PA.
- Oliveira, A.W., Sadler, T.D., & Nash, C.M. (2014, January). *Socioscientific Intertextuality in Secondary Science*. Paper presented at the 2014 International Meeting of the Association for Science Teacher Education, San Antonio, TX.
- Snyder, M.A., Oliveira, A.W., Reis, G., & Chaize, D.O. (2014, January). *Death and Dying in School Science*. Paper presented at the 2014 International Meeting of the Association for Science Teacher Education, San Antonio, TX.

- Rogers, P., Judson, D., Oliveira, A.W., Meskill, C. Gregory, K., & Imperial, C. (2013, November). *Accommodating the English language learner in mathematical discussions*. Paper presented at the 35th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA) in Chicago, IL.
- Oliveira, A.W., Akerson, V.L., & Oldfield, M. (2013, April). *Environmental argumentation as sociocultural activity*. Poster presented at the annual meeting of National Association for Research in Science Teaching, Rio Grande, PR.
- Wizner, F., & Oliveira, A.W., (2013, April). *Scientific humor in university lectures*. Paper presented at the annual meeting of National Association for Research in Science Teaching, Rio Grande, PR.
- Glass, R., & Oliveira, A.W. (2013, January). *Simplified speech in science read-alouds*. Paper presented at the 2013 International Meeting of the Association for Science Teacher Education, Charleston, SC.
- Rivera, S., Oliveira, A.W., Rogers, P., Quigley, C.F., Samburskiy, D., & Barss, K. (2013, January). *Environmental agency in read-alouds*. Paper presented at the 2013 International Meeting of the Association for Science Teacher Education, Charleston, SC.
- Wizner, F., & Oliveira, A.W., (2013, January). *Scientific humor in university lectures*. Paper presented at the 2013 International Meeting of the Association for Science Teacher Education, Charleston, SC.
- Oliveira, A.W., Akerson, V.L., & Oldfield, M. (2013, January). *Environmental argumentation as sociocultural activity*. Paper presented at the 2013 International Meeting of the Association for Science Teacher Education, Charleston, SC.
- Snyder, C., Oliveira, A.W., & Paska, L.M. (2012, November) “*The teacher I have become is a teacher, not an engineer.*” *Charting the transformation of career changers transitioning to secondary STEM teaching*. Paper presented at the 10th International Transformative Learning Conference, San Francisco, CA.
- Rivera, S., Mastroianni, M., Oliveira, A.W., Glass, R., Amodeo, V., & Wizner, F. (2012, March). *Reading pictorial models in elementary read-alouds*. Paper presented at the annual meeting of National Association for Research in Science Teaching, Indianapolis, IN.
- Mastroianni, M., Rivera, S., Glass, R., Oliveira, A.W., & Wizner, F. (2012, March). *Using pictorial models in elementary science read-alouds to communicate science across grade levels*. Paper presented at the annual meeting of National Association for Research in Science Teaching, Indianapolis, IN.

- Rivera, S., Oliveira, A. W., Glass, R., Mastroianni, M., & Wizner, F. (2012, January). *Pictorial representation in science read-alouds: How elementary teachers communicate science to children across grade levels*. Paper presented at the 2012 International Meeting of the Association for Science Teacher Education, Clearwater, FL.
- Rivera, S., Oliveira, A. W., Glass, R., Mastroianni, M., & Wizner, F. (2012, January). *Pictorial representation in science read-alouds*. Paper presented at the 2012 International Meeting of the Association for Science Teacher Education, Clearwater, FL.
- Oliveira, A.W., & Paska, L., & Snyder, C. (2012, January). “*Accomplished Teachers Make It Look So Easy*” *Educating Career Changers Transitioning to Secondary STEM Teaching*. Paper presented at the 2012 International Meeting of the Association for Science Teacher Education, Clearwater, FL.
- Oliveira, A.W., Akerson, V. L., Colak, H., Pongsanon, K., & Genel, A., (2012, January). *Teacher hedging and the tentative nature of science inquiry discussions*. Paper presented at the 2012 International Meeting of the Association for Science Teacher Education, Clearwater, FL.
- Rivera, S., Oliveira, A. W., Glass, R., Mastroianni, M., Wizner, F., & Amodeo, V., (2011, September). *Reading pictures aloud: Science communication through pictorial models during read-alouds*. Paper presented at the Biannual meeting of the European Science Education Research Association, Lyon, France.
- Colak, H., Oliveira, A. W., Pongsanon, K., Genel, A., & Akerson, V. L., (2011, April). *Teacher hedging and the tentative nature of science inquiry discussions*. Paper presented at the annual meeting of National Association for Research in Science Teaching, Orlando, FL.
- Oliveira, A.W., Wilcox, K.C., Angelis, J., Applebee, A.N., Amodeo, V., & Snyder, M.A (2011, April). *Best practice in middle school science*. Paper presented at the annual meeting of National Association for Research in Science Teaching, Orlando, FL.
- Oliveira, A.W. (2011, April). *Nature of science communication in teacher personal pronouns*. Poster presented at the annual meeting of National Association for Research in Science Teaching, Orlando, FL.
- Cook, K., Oliveira, A.W., & Buck, G.A. (2011, April). *Framing evolution discussion intellectually*. Paper presented at the annual meeting of National Association for Research in Science Teaching, Orlando, FL.

- Mastroianni, M., Wizner, F., & Oliveira, A.W. (2011, January). *Elementary teachers' performance of science read-alouds*. Paper presented at the 2011 International Meeting of the Association for Science Teacher Education, Minneapolis, MN.
- Oliveira, A.W., Wilcox, K.C., Angelis, J., Applebee, A.N., Amodeo, V., & Snyder, M.A (2011, January). *Best practice in middle school science*. Paper presented at the 2011 International Meeting of the Association for Science Teacher Education, Minneapolis, MN.
- Oliveira, A.W. (2011, January). *Science communication in teacher personal pronouns*. Paper presented at the 2011 International Meeting of the Association for Science Teacher Education, Minneapolis, MN.
- Oliveira, A. W. (2010, March). *Engaging students in guided science inquiry discussions: Elementary teachers' oral strategies*. Paper presented at the annual meeting of National Association for Research in Science Teaching, Philadelphia, PA.
- Oliveira, A. W. (2009, September). *Politeness and teacher directive behaviors in inquiry-based science classrooms*. Paper presented at the Biannual meeting of the European Science Education Research Association, Istanbul, Turkey.
- Oliveira, A. W., Colak, H., & Akerson, V. L. (2009, September). *"Who Polluted the Potomac? The Translation and Implementation of an Environmental Story in Brazilian and Turkish Elementary Classrooms*. Paper presented at the Biannual meeting of the European Science Education Research Association, Istanbul, Turkey.
- Quigley, C.F., Oliveira, A.W., & Buck, G.A. (2009, April). *"Coming to terms with language: The translation of technical terminology in science textbooks."* Paper presented at the annual meeting of National Association for Research in Science Teaching, Garden Grove, CA.
- Oliveira, A. W. (2009, April). *"Teacher-student interaction: The overlooked dimension of inquiry-based professional development."* Poster presented at the annual meeting of National Association for Research in Science Teaching, Garden Grove, CA.
- Oliveira, A. W. (2009, April). *"Are you curious as to whether crayfish have a sweet tooth or not?" Teacher questioning in inquiry-based science classrooms.* Paper presented at the annual meeting of National Association for Research in Science Teaching, Garden Grove, CA.
- Oliveira, A. W. (2009, April). *"May the force be with you": Teachers Promoting Student Involvement through Poetics in Science Classrooms.* Paper presented at the American Educational Research Association Annual Meeting, San Diego, CA.

- Pongsanon, K., Oliveira, A. W., Akerson, V. L., Colak, H., & Genel, A. (2008, April). *Getting the Big Picture: The Impact of a Summer Workshop on Teachers' Views of Scientific Inquiry, Nature of Science and Classroom Interaction*. Paper presented at the annual meeting of National Association for Research in Science Teaching, Baltimore, MD.
- Oliveira, A. W., Colak, H., & Akerson, V. L. (2008, April). *"Who Polluted the Potomac? The Translation and Implementation of an Environmental Story in Brazilian and Turkish Elementary Classrooms*. Paper presented at the annual meeting of National Association for Research in Science Teaching, Baltimore, MD.
- Oliveira, A.W., Donnelly, L., Akerson, V., Colak, H., & Pongsanon K. (2008, January). *Teacher-Student Interaction: Drawing Connections among Classroom Discourse, Scientific Inquiry, and Explicit NOS Instruction*. Three-hour workshop presented at the 2008 International Meeting of the Association for Science Teacher Education, Saint Louis, MO.
- Oliveira, A.W., & Sadler, T.D. (2007, April). *The linguistic construction of expert identity in teacher-student discussions of science*. Poster presented at the annual meeting of National Association for Research in Science Teaching, New Orleans, LA.
- Oliveira, A.W., & Sadler, T.D. (2006, April). *Interactive patterns and convergence of meanings during student collaborations in science*. Paper presented at the annual meeting of National Association for Research in Science Teaching, San Francisco, CA.
- Phillipson-Mower, T., Townsend, S., White, O., & Oliveira, A.W. (2006, February). *Make connections with environmental education*. Oral presentation at Hoosier Association of Science Teachers, Inc. (HASTI), Indianapolis, IN.
- Oliveira, A.W. (2004, July). *Teaching chemistry via investigative cases*. Six-hour workshop offered during the XII National Meeting of Chemistry Students/XIII Midwest Meeting of Debates about Chemistry Teaching, Goiania, Brazil.
- Oliveira, A.W. (2004, February). *Investigative case-based learning (ICBL), not your usual high school science*. Oral presentation at Hoosier Association of Science Teachers, Inc. (HASTI), Indianapolis, IN.
- Waterman, M.A., Stanley, E.D., Oliveira A.W., & DeSantos, V. (2003, January). *Implementing case-based learning with Brazilian high school and U.S. college teachers*. Association for the Education of Teachers of Science. St. Louis, MO.

Other Presentations & Seminars

- Oliveira, A.W. (2015, February). Food Appraisal: Discussing Healthy Diet and Eating in Elementary Science. Paper presented at the Albany Consortium for Research in Instructional Design and Technology (ACRIDAT), Albany, NY.
- Oliveira, A.W. (2014, October). *Socioscientific intertextuality: A text-based framework for environmental and science education*. Oral presentation at the research symposium At the Crossroads of Environmental and Science Education: Towards an International Collaborative Research Agenda, Ottawa, Canada.
- Oliveira, A.W. (2014, July). *Science Curriculum and Instruction in the US*. Catholic University of Brasilia, Brazil.
- Oliveira, A.W. (2014, April). *Questioning and Inquiry in STEM*. Master Teacher Program, Albany, NY.
- Oliveira, A.W., & Nash, C.M. (2014, April). Socioscientific Intertextuality in Secondary Science. Paper presented at the Albany Consortium for Research in Instructional Design and Technology (ACRIDAT), Albany, NY.
- Shea, P., Oliveira, A., & Ramamurthy, B. (2013, March). SLN SOL Summit. *SUNY Games: An IITG Panel Discussion*. Syracuse, NY.
- Rivera, S., Oliveira, A., & Samburskiy, D., (2012, December). *Environmental agency in read-alouds*. Paper presented at the Albany Consortium for Research in Instructional Design and Technology (ACRIDAT), Albany, NY.
- Glass, R., & Oliveira, A.W. (2012, November). *Science language accommodation in elementary school read-alouds*. Paper presented at the Albany Consortium for Research in Instructional Design and Technology (ACRIDAT), Albany, NY.
- Oliveira, A.W. (2012, October). *Science communication in teacher personal pronouns*. Paper presented at the Albany Consortium for Research in Instructional Design and Technology (ACRIDAT), Albany, NY.
- Snyder, C., Oliveira, A.W., & Paska, L.M. (2012, March). *STEM career changers' transformation into science teachers*. Paper presented at the Albany Consortium for Research in Instructional Design and Technology (ACRIDAT), Albany, NY.
- Oliveira, A.W. (2012, February). *Teacher hedging and the tentative nature of science inquiry discussions*. Paper presented at the Albany Consortium for Research in Instructional Design and Technology (ACRIDAT), Albany, NY.
- Oliveira, A.W. Mastroianni, M., Glass, R., & Rivera, S. (2011, April). *Multiple visual representation in science read-alouds*. Paper presented at the Albany Consortium for Research in Instructional Design and Technology (ACRIDAT), Albany, NY.

- Oliveira, A. W. (2010, November). *Politeness and teacher directive behaviors in inquiry-based science classrooms*. Invited paper presentation at the Syracuse University, Syracuse, NY.
- Oliveira, A.W. Mastroianni, M., Glass, R., & Rivera, S. (2010, October). *Reading pictures aloud: How teachers communicate science through pictorial models during read-alouds*. Paper presented at the Albany Consortium for Research in Instructional Design and Technology (ACRIDAT), Albany, NY.
- Oliveira, A.W., Rivera, S., & Mastroianni, M. (2010, October). *Models and modeling approaches to mathematics instruction*. Invited oral presentation at the 2010 University in the High School Program, Albany, NY.
- Oliveira, A.W. (2010, March). *Teaching evolution through intellectual discussion in the secondary science classroom*. Paper presented at the Albany Consortium for Research in Instructional Design and Technology (ACRIDAT), Albany, NY.
- Oliveira, A. W. (2009, September). *Improving teacher questioning in science inquiry discussions through professional development*. Paper presented at the Albany Consortium for Research in Instructional Design and Technology (ACRIDAT), Albany, NY.
- Oliveira, A. W. (2009, February). ““*Kindergarten, can I have your eyes and ears?*” *Politeness and Teacher Directive Choices in Inquiry-Based Science Classrooms.*” Paper presented at the Albany Consortium for Research in Instructional Design and Technology (ACRIDAT), Albany, NY.
- Oliveira, A.W. (2008, September). “*Who Polluted the Potomac?*” *The Translation and Implementation of an Environmental Story in Brazilian and Turkish Elementary Classrooms*. Paper presented at the Albany Consortium for Research in Instructional Design and Theory (ACRIDAT), Albany, NY.
- Oliveira, A.W. (2008, March). *Multilingual Curriculum Implementation: Exploring the Impact of Translation on Environmental Instruction*. Paper presented at the 2008 Indiana University Science Education Research Symposium, Bloomington, IN.
- Pongsanon, K., Oliveira, A. W., Akerson, V. L., Colak, H., & Genel, A. (2008, March). *Getting the Big Picture: The Impact of a Summer Workshop on Teachers’ Views of Scientific Inquiry, Nature of Science and Classroom Interaction*. Paper presented at the 2008 Indiana University Science Education Research Symposium, Bloomington, IN.
- Oliveira, A.W., & Suslak, D.F. (2007, March). *Analyzing language, interaction and outcomes in an inquiry-based classroom*. Paper presented at the 2007 Indiana University Science Education Research Symposium, Bloomington, IN.

- Oliveira, A.W. (2007, February). *Curriculum translation and the development of environmental awareness among Brazilian and Turkish elementary students*. Paper presented at the 2007 Indiana University Science Education Brown Bag Series, Bloomington, IN.
- Oliveira, A.W. (2006, March). *The linguistic construction of expert identity in teacher-student discussions of science*. Paper presented at the 2005 Indiana University Science Education Research Symposium, Bloomington, IN.
- Oliveira, A.W. (2006, March). *The linguistic construction of expert identity in teacher-student discussions of science*. Invited paper presentation at the University of Florida, Gainesville, FL.
- Oliveira, A.W. (2005, March). *Interactive patterns and convergence of meanings during student collaborations in science*. Paper presented at the 2005 Indiana University Science Education Research Symposium, Bloomington, IN.
- Oliveira, A.W. (2003, June). *Colloquial English*. Five-hour workshop offered during the IV Pedagogical Week of Goias State University, Brazil.
- Oliveira, A.W. (2002, June). *A fungus with a mission*. Oral presentation at BioQUEST Workshop, Beloit, WI.
- Oliveira, A.W., DeSouza, V. (2002, May). *Using LifeLines cases in the classroom*. Oral presentation at LifeLines Online Workshop, Cape Girardeau, MO.
- Oliveira, A.W., DeSouza, V. (2001, August-December). *Biology case-based learning in Brazilian high schools*. Professional Development Workshop offered to pre and in-service high school biology teachers, Goias State University, Ipora, GO, Brazil.
- Oliveira, A.W. (2000, June). *Determination of protein structures*. Five-hour workshop offered at Goias State University, Brazil.
- Oliveira, A.W. (1996, September). *Phytochemical study of *Pyrostegia venusta* Myers*. IV Internal Seminary of Scientific Initiation/CNPq, Goiania, GO, Brazil.

TEACHING AND ADVISING

Professional Work Experience

University at Albany (NY): Associate Professor of Science Education 2014 – present
 ETAP 710: Principles of Curriculum Development

University at Albany (NY): Assistant Professor of Science Education 2008 – 2014
 Courses Taught All Graduate Level:
 UFSP 100: Introduction to Science Education
 ETAP 614: Science for Children
 ETAP 652S: Teaching Science in the Secondary School

ETAP 655: Modeling in Science and Mathematics Instruction	
ETAP 750: Environmental and Socioscientific issues in science education	
ETAP 751: Science and Mathematics Discourse	
ETAP 850: Current Issues in Science Education	
Indiana University (IU): Adjunct Faculty	2008 (Sum)
Research Assistant, Science Education,	2007-2008
Coordinated an inquiry-based summer institute for in-service elementary teachers. Facilitated instruction and discussion sessions focused on classroom language and teacher-student interaction.	
Coordinated school-year, follow-up meetings, provide in-service elementary teachers with classroom support, video-record teachers' implementation of inquiry science lessons, and conduct data analysis.	
Instructor, Saturday Science Program	2007-2007
Courses Taught All Elementary Level:	
Food Science	
Chemistry Magic	
Research Assistant, Science Education	2006-2007
Assisted faculty members with writing of research grants, applications for human subjects committee, video-recording of classes, and data analysis.	
Tutor, Mathematics	2004- 2008
Courses Taught All Secondary Level:	
SAT Mathematics to ESL students from Angola.	
Assistant Instructor, Science Education	2003- 2006
Courses Taught All Undergraduate Level:	
Science in the Elementary School	
Introduction to Scientific Inquiry	
Goias State University (Brazil): Assistant Instructor of Mathematics Education	2003-2003
Courses Taught All Undergraduate Level:	
Plane Geometry	
Space Geometry	
Functions for Complex Numbers	
History of Mathematics	
Elements of Mathematics	
Financial Mathematics	
Probability and Statistics	
Teaching Mathematics at the Elementary School	
Algebra for Elementary and Secondary Teachers	
Southeast Missouri State University (MO): Adjunct Faculty	2001-2002

- Teaching Assistant of Science Education
 Courses Taught All Undergraduate Level:
 Introduction to the Process of Science for Elementary Teachers
 Webmaster, Science Education
 Created and maintained a professional development website:
http://cstl-csm.semo.edu/biocases/english/english_intro.htm
- Goias State University (Brazil):** Assistant Instructor of Biology and Chemistry 2000-2001
 Courses Taught All Undergraduate Level:
 Human Physiology
 Biostatistics
 Plane Geometry
 Space Geometry
 Biochemistry
 General Chemistry
 Physics I - Mechanics
 Physics II – Electricity
- Cultura Americana (Brazil):** Tutor, English as a Second Language 2000-2001
- University of Missouri (MO):** Adjunct Faculty 1998-1999
 Research Assistant, Protein Crystallography
 Performed protein purification in a FPLC system, searched for crystallization conditions of proteins, collected data in x-ray diffractometer under cryogenic conditions, solved protein structures by using Denzo, Scalepack and Xplor programs, collected data at Synchrotron in the Brookhaven National Lab, trained new graduate students, maintained lab equipment and ordered chemicals.
 Teaching Assistant of Chemistry
 Courses Taught All Undergraduate Level:
 General Chemistry
- Colegio Objectivo (Brazil):** Teacher of Physics 1997-1997
 Courses Taught All Secondary Level:
 General Physics
- MERCOIL – Oil Distributor (Brazil):** Intern, Gasoline Quality Control 1996-1996
 Visited gas stations to perform quality control tests on various fuels (oil derivatives and alcohol), recorded field-test results and forwarded reports to central base.
- Goias Federal University (Brazil):** Student Assistant, Chemistry 1995-1996
 Research Assistant
 Searched for medicinal plants with therapeutic potential, extracted

and isolated plant compounds (chromatographic techniques), and tested bioactivity on bacterial colonies.
Teaching Assistant, Chemistry
Courses Taught All Undergraduate Level:
Organic Chemistry Lab

Graduate Student Advising

Previous Doctoral Students - UAlbany

- | | |
|---|-------------------------------|
| Stephanie Conklin | Dissertation Committee Chair |
| Women's Decision to Enter into STEM Fields | |
| Rory Glass | Dissertation Committee Chair |
| A Study of the Emergence of Student Tacit Knowledge in Response to Environmental Images and Science Instruction | |
| Jingping Chen | Dissertation Committee Member |
| Formative Assessment for Collaborative Knowledge Building in Chinese Elementary Science Classrooms | |
| Denis Samburskiy | Dissertation Committee Member |
| The Effect of a Dual-Coding Elucidation Technique on Idiom Comprehension in ESL and EFL Learners | |
| Francine Wizner | Dissertation Committee Chair |
| Instructional Scientific Humor in the Secondary Classroom | |
| Melody Nadeau | Dissertation Committee Member |
| Adult Learners of English Interacting with Native Speaker Teachers and Non Native Speaker Teachers: Exploring Differences in Language Use | |
| Karen M. Gregory | Dissertation Committee Chair |
| When Every Teacher is a Language Teacher: A Case Study of High School Math and Science Instructors' Use of Multimodal Accommodations with ELs | |
| Umit Boz | Dissertation Committee Member |
| Discursive Leadership and Conceptual Fluency in Non-Native English Speakers' Online Task-Based Dialogues | |
| Seema Rivera | Dissertation Committee Chair |
| How the Nature of Science is Presented to Elementary Students in Science Read-Alouds | |
| Deven Horne | Dissertation Committee Member |
| The Revelation of Teacher Identity in the Process of the "Descriptive Review of a Child" | |

Served on ad hoc committee in charge of planning a 4+1 (combined BA/MS) teacher education program.

Served on Search Committee for an Assistant Professor of Ocean-Atmosphere Interactions or Climate-Cryosphere Interactions in the Department of Atmospheric and Environmental Sciences at the State University of New York at Albany (2011)

Served on Search Committee for an Assistant Professor of Hydroclimatology or Weather-Systems Dynamics in the Department of Atmospheric and Environmental Sciences at the State University of New York at Albany (2010)

Served on Search Committee for Indiana University Science Education/Science Assistant Professor (2008-2013)

Organized the 2007 Indiana University Science Education Research Symposium, Indiana University, Bloomington, IN.

Served on Search Committee for Indiana University Science Education/Biology Associate Professor (2007)

Served as Chair of Election Committee, Goias State University, Jussara, GO, Brazil (2003)

Profession

Editorial Boards

Editorial Review Board, *Poiesis Pedagógica* (2015 - present)

Responsibilities included reviewing research manuscripts submitted for publication in the fields of science and environmental education.

Guest Editor, *Brazilian Journal of Research in Science Education* (2013). Reviewed and make recommendations on research manuscript proposals submitted to Special Issue entitled Environmental Discourses in Science Education: Contributions to Democracy, Citizenship, and Social Justice.

Associate Editor, *Journal of Research in Science Teaching* (2012 - 2015)

Responsibilities included making recommendations and writing decision letters on research manuscripts submitted for publication in the *Journal of Research in Science Teaching* in the field of science education.

Editorial Review Board, *Cultural Studies of Science Education* (2013 - present)

Responsibilities included reviewing research manuscripts submitted for publication in *Cultural Studies of Science Education* in the field of science education.

Editorial Review Board, *Journal of Research in Science Teaching* (2009 - 2012)

Responsibilities included reviewing research manuscripts submitted for publication in *Journal of Research in Science Teaching* in the field of science education.

Editorial Review Board, *Journal of Science Teacher Education* (2012 - 2015)
Responsibilities included reviewing research manuscripts submitted for publication in *Journal of Science Teacher Education* in the field of science education.

Journal Reviewer

Journal of the Learning Sciences (2015)

Responsibilities included reviewing research manuscripts submitted for publication in the field of science education

International Journal of Science Education (2015)

Responsibilities included reviewing research manuscripts submitted for publication in the field of science education

Science and Education (2015)

Responsibilities included reviewing research manuscripts submitted for publication in the field of science education

Eurasia Journal of Mathematics, Science and Technology Education (2014)

Responsibilities included reviewing research manuscripts submitted for publication in the field of science education.

International Journal of Environmental and Science Education (2014)

Responsibilities included reviewing research manuscripts submitted for publication in the field of science education.

Journal of STEM Education (2014)

Responsibilities included reviewing research manuscripts submitted for publication in the field of education.

Learning Environments Research (2014)

Responsibilities included reviewing research manuscripts submitted for publication in the field of education.

Journal of Pragmatics (2013)

Responsibilities included reviewing research manuscripts submitted for publication in the field of linguistics.

Educational Psychology (2013-present)

Responsibilities included reviewing research manuscripts submitted for publication in the field of educational psychology.

Cultural Studies of Science Education, (2011-present)

Responsibilities included reviewing research manuscripts submitted for publication in *Cultural Studies of Science Education* in the field of science education.

Science Education (2010-present)

Responsibilities included reviewing research manuscripts submitted for publication in *Science Education*.

Teaching and Teacher Education (2009-present)

Responsibilities included reviewing research manuscripts submitted for publication in *Teaching and Teacher Education* in the field of science education.

Journal of Research in Science Teaching (2007 - 2009)

Responsibilities included reviewing research manuscripts submitted for publication in *Journal of Research in Science Teaching* in the field of science education.

School Science and Mathematics (2006 - present)

Responsibilities included reviewing research manuscripts submitted for publication in *School Science and Mathematics Journal* in the field of science education.

Conference Committees

Member of Early Career Research Award Committee for the National Association of Research in Science Teaching (2016-2018).

Member of the Publications Committee for the Association for Science Teacher Education Conference (2016-2019).

Member of the International Committee for the National Association of Research in Science Teaching (2013-2016).

Coordinator, Thread -- Student Learning: Issues related to PreK-12 Post Secondary Learning of Science. International Conference of the Association for Science Teacher Education Conference, Clearwater, FL (2012).

Member of the Research Committee for the National Association of Research in Science Teaching (2009-2012).

Member of Organizing Committee, *VII Midwest Meeting of Debates about Chemistry Teaching*, Goiania, Brazil (1995)

Member of Organizing Committee, *XII National Meeting of Chemistry Students*, Goiania, Brazil (1994)

Conference Presider

School of Education Day: A Celebration of Educational Innovations and Advancements, Albany, NY (2015).

National Association for Research in Science Teaching, Chicago, IL, (2014).

National Association for Research in Science Teaching, Philadelphia, PA, (2010).

National Association for Research in Science Teaching, Garden Grove, CA, (2009).

National Association for Research in Science Teaching, Baltimore, MD, (2008).

National Association for Research in Science Teaching, New Orleans, LA, (2007).

Conference Reviewer

Science Education Special Interest Group. The Canadian Society for the Study of Education, Calgary, Alberta, Canada (2016).

Session Thread – Ethnoscience and Environmental Education. The Association for Science Teacher Education, San Antonio, TX, (2014).

Strand 2, Learning: Contexts ,Characteristics and Interactions. National Association of Research in Science Teaching, Rio Grande, Puerto Rico (2013).

Strand 2, Learning: Contexts ,Characteristics and Interactions. National Association of Research in Science Teaching, Indianapolis, IN (2012).

Division C - Learning and Instruction, Section 4 - Science. American Educational Research Association Annual Meeting, New Orleans, LA, (2010).

Strand 14, Professional Development. European Science Education Research Association Biannual Conference, Istanbul, Turkey (2009).

Division C - Learning and Instruction, Section 6 - Cognitive, Social and Motivational Processes. American Educational Research Association Annual Meeting, San Diego, CA, (2009).

Session Thread – Student learning: Issues related to Pre-K-12 student learning of science. The Association for Science Teacher Education, Hartford, CT, (2009).

Strand 2, Learning: Contexts ,Characteristics and Interactions. National Association of Research in Science Teaching, Baltimore, MD (2008).

Session Thread – Student learning: Issues related to Pre-K-12 student learning of science. The Association for Science Teacher Education, Saint Louis, MO (2008).

Strand 2, Learning: Contexts ,Characteristics and Interactions. National Association of Research in Science Teaching, New Orleans, LA (2007).

Grant Proposal Reviewer

Discovery Research PreK-12 Review Panel, National Science Foundation (2016)
Individual Research Grants, Israel Science Foundation (2013-2014)

PROFESSIONAL AFFILIATIONS

Canadian Society for the Study of Education
American Educational Research Association
The Association for Science Teacher Education
National Association for Research in Science Teaching
National Science Teacher Association
School Science and Mathematics Association
European Science Education Research Association
North American Association for Environmental Education