Curriculum Vita

Notarization. I have read the following and certify thathis curriculum vita is a current and accurate statement of my professional record.

Signature Date

I. Personal Information

I.A. Contact Information 1

Lombardi, D., Ph.D.

25. Lombardi, D.,* Bickel, E. S., Brandt, C. B.,* & Burg, C. (2017). Categorising students' evaluations of evidence and explanations about climate change.

34. Lombardi, D.,*

44. Lombardi, D., & Sinatra, G. M. (2013). Emotions about teaching about human-induced climate change. International Journal of Science Education, 35, 167-191. https://doi.org/ 10.1080/09500693.2012.738372

23. *Bickel, E. S., Lombardi, D., Bailey, J. M., & Burrell, S. (2016). Students' evaluations of opposing arguments. Paper presented at the 2016 National Consortium for Instruction and Cognition Annual Meeting, Washington, DC.
24. *Halpern, M., Lombardi, D., & Bailey, J. M. (2016). How do students co-construct knowledge when evaluating alternative models of climate change? Paper presented at the 2016 National Consortium for Instruction and Cognition Annual Meeting, Washington, DC.
25. *Torsney, B. M., Lombardi, D., & Ponnock, A. (2016). Motivational characteristics of K-12 teachers: Determining the values that influence pre-service teachers' decision to teach. Paper presented at the 2016 National Consortium for Instruction and Cognition Annual Meeting, Washington, DC.
26. *Young, N., Danielson, R., & Lombardi, D. (2015). Measuring engagement with the potential consequences of climate change. Paper presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA.
27. Lombardi, D., *Danielson, R. W., & Young, N. (2015). Exploring relationships between plausibility, critical evaluation, the refutation text effect, and students' climate change knowledge. Round table paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.
28. *Burrell, S., Lombardi, D., & Bailey, J. M. (2015). The impact of implementation of model-evidence link (MEL) diagrams in high school science classrooms on critical evaluation and knowledge gains: A comparative study. Paper presented at the 2015 National Consortium for Instruction and Cognition Annual Meeting, Chicago, IL.
29. *Young, T. K., Lombardi, D., & Bailey, J. M. (2015). Understanding the roles of epistemic cognition and plausibility reappraisal in model-evidence link diagrams of Moon formation theories. Paper presented at the 2015 National Consortium for Instruction and Cognition Annual Meeting, Chicago, IL.
30. *Torsney, B. M., & Lombardi, D. (2015).

35. Broughton, S. H., Sinatra, G. M., & Lombardi, D. (2013, April). Assessing topic emotions in science. Paper presented as part of the symposium, "The intersect of social and emotional learning with academic achievement: Perspectives from research and practice" at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
36. *Beck, A., Sinatra, G. M., Lombardi, D., Findlay, J., & Northrup, A. (2012). Surveying perceptions of climate change in higher education: Professors' perspectives. Paper presented at the Fourth International Conference on Climate Change, Seattle, WA.
37. Bailey, J. M.*, Rehmat, A. P., Lombardi, D., & Keppelmann, E. (2012, April). Developing science teacher leaders through long-term professional development: A cross-case analysis of four teachers. Paper presented at the 85th International Conference of the National Association of Research in Science Teaching, Indianapolis, IN.
38. Bailey, J. M., Lombardi, D., & Sinatra, G. M. (2011, April). Investigating college students' self-efficacy, interest, and conceptual change about stars. Paper presented at the 84th International Conference of the National Association of Research in Science Teaching, Orlando, FL.
39. Lombardi, D., & Sinatra, G. M. (2010, April). Students' understanding of weather and climate distinctions, deep time, and plausibility perceptions of human-induced climate change. Paper presented at the National Consortium for Instruction and Cognition Annual Meeting, Denver, CO.
40. Lombardi, D. (2009, October). Student perceptions about the plausibility of human-induced climate change. Paper presented at the 2nd UNLV Urban Sustainability Initiative Conference, Education for a Global Future: 21st Century Challenges in Sustainability & Climate Change Education, Las Vegas, NV.
41. Schmidt, L. J., Smith, P., Hall, J., & Lombardi, D. (2006, December). Mars 101: Linking educational content to mission purpose on the Phoenix Mars lander mission web site. Paper presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA.
42. *Shaner, A., Lara, M., Wilkins, K., Jewell, L., & Lombardi, D. (2006, March). Marsbots: A national robotics education learning module for grades 3 and 4. Paper presented at the Annual Lunar and Planetary Science Conference, Houston, TX.
43. Lombardi, D., & Lombardi, E. A. (2001, April). Starting the year with the Big Bang. Paper presented at the 2001 Winter National Meeting of the American Association of Physics Teachers, San Diego, CA.

II.E.4. Refereed Workshop Papers

1. Bailey, J. M., Lombardi, D.,* & Klavon, T. G. (2020). MEL2 - Thinking scientifically in

4. Lombardi, D., Holzer, M., Hopkins, J. D., Bailey, J. M., Girtain, C., & Crones, P. (2015). Critical thinking in earth science: Using the model-evidence link diagram. Workshop presented as a National Association for Research in Science Teaching (NARST)-sponsored session at the at the 2015 National Conference of the National Science Teachers Association, Chicago, IL.
5. Carroll, K., Lombardi, D., & Sibley, B. (2012). WEL! We're not talking about the diner. Workshop presented at the Southern Nevada Regional Mathematics and Science Conference, Las Vegas, NV.
6. Lombardi, D., & Young, D. L. (2011). Decoding starlight: From pixels to images Workshop most recently presented at the National Science Teachers Association Area Conference, Seattle, WA.
7. Lombardi, D., & Young, D. L. (2011). Ice core records: From volcanoes to stars Workshop most recently presented at the National Science Teachers Association Area Conference, Seattle, WA.
8. Lombardi, D., & Young, D. L. (2011). NASA's high-energy vision: Chandra and the X-ray universe Workshop most recently presented at the National Science Teachers Association Area Conference, Seattle, WA.
9. Lombardi, D. (2011). Stellar life cycles Workshop most recently presented at the National Science Teachers Association Area Conference, New Orleans, LA.
10. Perry, P., Young, D. L., & Lombardi, D. (2011). The physics of supernovae Workshop most recently presented at the National Science Teachers Association National Conference, San Francisco, CA.
11. Lombardi, D. (2010). Modeling the spectrum Workshop most recently presented at the National Science Teachers Association Area Conference, Nashv4.1 (n)12n (t41D25a)-7.9 (l)

6. Lombardi, D. (2013). Engagement in science learning: How do we know it when we see it? Symposium session chair at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
7. Lombardi, D. (2012). Teaching and learning for the environment: Perspectives on understandings, values, and actions. Session chair at the Annual Meeting of the American Educational Research Association, Vancouver, BC.

II.E.8. Colloquia

1. Lombardi, D. (2022). Scaffolded instruction to facilitate students' learning and agency of socio-scientific topics. Invited colloquium presentation for Ohio State University's Advanced Seminar on Classroom Learning and Instruction.
2. Lombardi, D. (2021). Why mixed methods? My academic journey and present study. Invited colloquium presentation for Virginia Commonwealth University's, Mixed Methods Educational Studies Course.
3. Lombardi, D. (2018). Scaffolding scientific thinking to facilitate students' knowledge construction about Earth and space science topics. Invited colloquium presentation for the Earth and Space Science Department Seminar Series, West

3. Richard E. Snow Award for Early Contributions, American Psychological

III.B. Teaching Innovations

III.B.1. Major Programs Established

1. Education PhDProgram DevelopmentCommittee Member, College of Education

3. Noelle Luccioni, Ph.D., College of Education, Temple University, Philadelphia, PA. Committee Chair. Dissertation: Elementary student perceptions of their teachers' self-efficacy, interest, and enjoyment of science and science teaching, defense passed on December 4, 2018.
4. Jeremy Tomaszewski, Ph.D., College of Education, Temple University, Philadelphia, PA. Committee Chair. Dissertation: Understanding the role of confidence when targeting naïve conceptions of force and motion using demonstrations, defense passed on June 10, 2016.

III.C.4. Doctoral Research Supervision

[The following are doctoral students for whom I have provided funding via external or internal projects, and supervised for research, above and beyond their coursework]

1. John Robertson, Department of Human Development and Quantitative Methodology, University of Maryland, College Park; Research Assistant, Fall 2022, Spring 2023, Summer, 2023.
2. Alex Glass, Department of Teaching, Learning, Policy, and Leadership, University of Maryland, College Park; Research Assistant, Fall 2022, Spring 2023, Summer, 2023.
3.

4. Peter Baggetta, Ph.D., Human Development and Quantitative Methodology Department, University of Maryland, College Park, 2019.
5. Dana Miller-Cotto, Ph.D., College of Education, Temple University, Philadelphia PA, 2017.
6. Steven K. Peterson, Ph.D., College of Education, Temple University, Philadelphia, PA, Philadelphia, PA, 2016.
7. Ryan Hassler, Ph.D., College of Education, Temple University, Philadelphia, PA Philadelphia, PA, 2016.
8. Kayla Heffernan, Ph.D., College of Education, Temple University, Philadelphia, PA, Philadelphia, PA, defense passed on March 30, 2016.
9. Maggie Helene Pedone, Ph.D. College of Education, Temple University, Philadelphia, PA, Philadelphia, PA, 2016.
10. Benjamin M. Torsney, Ph.D., College of Education, Temple University, Philadelphia, PA, Philadelphia, PA, 2016.
11. Margaret A. Holzer, Ph.D. Graduate School of Education, Rutgers University, 2016.
12.

5. Michele Davis, B.S., Student Teaching Supervision, College of Education, Temple University, Philadelphia, PA., 2015.
6. Syretta Thomas, B.S., Student Teaching Supervision, College of Education, Temple University, Philadelphia, PA., 2015.

III.E. Teaching Awards 0.003 Tc -0.007 Tw [(T)-8 (e)-8 (a)-8 (c)-7 (hingni(a)-8 (d)cahdph,(io)-1.3 (n)-10.6 (i(a)-8 (d)ca)-7.9 , PA., n, (h)1.5 (

1. Temple University

10. Global and Planetary Change 2017.
11.

3. Maryland Collaborative for Research in Urban STEM Education, STEM Fellow, 2021-2022.
4. American Psychological Association, Division 15 (Educational Psychology), Treasurer-Elect, 2020-2021.
5. National Consortium for Instruction & Cognition; Incoming Chair, 2022; Board Member, 2015-2021; Newsletter Editor, 2011-2013.
6. National Earth Science Teachers Association, Director at Large, 2018-2020.
7. Pennsylvania Science Teachers Association, Board of Directors: Recording Secretary, 2015-2017, and Eastern College Representative, 2014-2015.
8. Pennsylvania Department of Education Committee, Science Education Framework Developer, 2013.
9. Nevada STEM Education Stakeholders Committee, 2011-2012.
10. Nevada STEM Education Coalition, 2011-2012.
11. Southern Nevada Section, American Association of Physics Teachers; Co-Founder with Dr. Janelle Bailey and Dr. John Farley; First Vice President, 2009-2010; President, 2010-2011; Past President, 2011-2012
12. Southern Nevada Science Teachers Association; Vice President, 2008-2009; President, 2009-2010; Past President, 2010-2012.
13. Committee on Space Science & Astronomy, American Association of Physics Teachers; Chair, 2010-2011; Member, 2008-2010.
14. Nevada State Science Education Committee, 2006-2012.
15. Education Committee for the American Association of Variable Star Observers, 2006-2010.
16. Arizona Section, American Association of Physics Teachers, Section Representative, 2004-2006.

IV.B.6. Leadership Roles in Meetings and Conferences

1. American Educational Research Association, Division C, Section 1d: Science Program Co-Chair, 2017-2019.
2. American Educational Research Association, Division C, Graduate Student Research Excellence Award Co-Chair, 2019.
3. Southern Nevada Regional Mathematics & Science Conference Organizing Committee; Conference Co-Chair, 2007-2010; Science Program Chair, 2010-2012.

IV.B.7. Other Non-University Panels

1. Public Attitudes, Knowledge, and Interest Expert Panel, National Center for Science and Engineering Statistics, 2022-2024.
2. Methodological Trends in Educational Psychology; Panelist, part of the Motivation Monday Series, Graduate Student Committee, Motivation in

6. Discovery Research K