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*Curriculum Vitae*  
**MAX L. LONGHURST**

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Utah State University  
Emma Eccles Jones College of Education and Human Services  
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## EDUCATION

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### Degrees

Ph.D.	2015	Utah State University, Logan, Utah Curriculum and Instruction Dissertation: <i>Adoption, adaptation, and abandonment: Appropriation of science education professional development learning.</i>
M.Ed.	1995	Arizona State University, Tempe, Arizona Elementary Education - Curriculum and Instruction
B.S.	1993	Brigham Young University, Provo, Utah Elementary Education

### Certifications / Endorsements

A/SC	2010	Utah State University Administrative/Supervisory Certificate
NSDC	2003	Learning Forward (National Staff Development Council) Academy XIII Graduate

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## RESEARCH AGENDA

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My research agenda focuses on using both quantitative and qualitative methodologies to better understand how professional learning influences teacher classroom practice. My current investigations target the appropriation of conceptual and practical tools from professional learning experiences for both elementary and secondary science teachers. This research examines how teachers appropriately adopt, adapt, or abandon new ideas and techniques into the context of the science classroom. I see value for this field in understanding how current investments of time and money contribute to high quality improvements in the classroom experiences for learners. Assisting teachers to connect theory with practice is an essential aspect of my work.

## ACADMEMIC APPOINTMENTS

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**Assistant Professor of Professional Practice** **2020-Present**  
**College of Education and Human Services, Utah State University, Logan, Utah**

*Responsibilities include:* Teaching elementary science education methods courses, graduate coursework, and providing graduate mentorship in the School of Teacher Education and Leadership. Grant development and delivery and pursuit of research agenda and service in the field of science education and professional learning.

**Assistant Professor** **2015-2020**  
**College of Education and Human Services, Utah State University, Logan, Utah**

*Responsibilities include:* Teaching elementary science education methods courses in the School of Teacher Education and Leadership. Grant development and delivery and pursuit of research agenda and service in the field of science education and professional learning.

**School of Teacher Education and Leadership, Lecturer & Outreach, Director** **2009-2015**  
**College of Education and Human Services, Utah State University, Logan, Utah**

*Responsibilities included:* Designing and providing professional learning across Utah, developing and submitting grant proposals to fund professional learning, instructing coursework, supervision of administrative interns and practicum students, and serving on statewide science / STEM committees representing Utah State University.

**Education Specialist III, Elementary CORE Academy, Director** **1999-2009**  
**College of Education and Human Services, Utah State University, Logan, Utah**

*Responsibilities included:* Development and delivery of science and mathematics professional learning aligned to the Core Curriculum of Utah. Professional learning delivery throughout Utah for practicing K-6 teachers.

**Elementary Teacher-Fifth Grade** **1997-1999**  
**Cache County School District, Logan, Utah**

*Responsibilities included:* Biography Fair Coordinator, Digital Portfolio Team, Student Council Advisor, Site Council-Member

**Elementary Teacher-Fourth, Fifth, & Sixth Grades** **1993-1997**  
**Mesa Public Schools, Mesa, Arizona**

*Responsibilities included:* Science Liaison, Science Synergy Circle, Technology Liaison, Summer School-Head Teacher, Principal's Advisory Council

## SCHOLARSHIP

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### Journal Articles (Peer Reviewed, \* refer to Graduate Students)

1. Glaze, A., Moyer-Packenham, P., & Longhurst, M. L. (2021). Teachers' conceptions of mathematics and intelligent tutoring system use. *Journal of Computers in Mathematics and Science Teaching*. 40(3), 201-227.

2. **Longhurst, M. L.**, Jones, S. H. & Campbell, T. (2021). Mediating influences in professional learning: Factors that lead to appropriation & principled adaptation t. *Professional Development in Education*. doi: 10.1080/19415257.2021.1879220 [Impact factor-1.53, 23% acceptance rate]
3. Campbell, T., Lee, H., **Longhurst, M. L.**, McKenna, T., Coster, D., & Lundgreen, L. (2021). Next generation science classrooms: The development of a survey for examining student experiences in science classrooms. *School Science and Mathematics*. 121(2), 96-109. doi: 10.1111/ssm.12449 [Impact factor-0.64, H index-2]
4. **Longhurst, M. L.**, \*Judd-Murray, R., Coster, D. C. & Spielmaker, D. (2020). Measuring agricultural literacy: Grades 3-5 instrument development and validation. *Journal of Agricultural Education* 61(2), 173-192. [Impact factor-1.55, H index-18]
5. \*Boling, J., **Longhurst, M. L.**, & Lott, K. H., (2020). Watersheds, communities, & collaboration: Place-based peer mentoring in the field. *Science and Children*.
6. \*Anderson, D. B., Jones, S. H., Putney, L. G., & **Longhurst, M. L.**, (2019). Collective class actualization: Efficacy-based dynamic equilibrium in the classroom. *Journal of Ethnographic and Qualitative Research*. 13(4), 289-304. [Impact factor .20]
7. **Longhurst, M. L.**, Freeman, M. K., Turner, S. A., & Sol, Y. H. (2019). Impacts on new teachers instruction of reflective teaching practices on international teaching field experiences. *Teaching Practicum Research*. 1(1) 1-13. doi: 10.35733/tp.2019.1.1.1
8. Lee, H., **Longhurst, M. L.**, Freeman, M. K., Lee, H., (2019) An exploratory study of middle school students' motivation in science: Comparing a STEM education program in Korea and the USA. *Journal of Science Education*. 43(1), 1-16.
9. Lee, H., **Longhurst, M. L.**, & Campbell, T. (2017). Teacher learning in technology professional development and its impact on student achievement in science. *International Journal of Science Education*. 39(10), 1282-1303. doi: 10.1080/09500693.2017.1327733 [Impact factor-1.240, H Index-81, Quartile 1]
10. **Longhurst, M. L.**, Jones, S. H., & Campbell, T. (2017). Factors influencing teacher appropriation of professional learning focused on the use of technology in science classrooms. *Teacher Development: An International Journal of Teachers' Professional Development*, 21(3), 365-387. doi: 10.1080/13664530.2016.1273848 [H Index-21, Quartile 2]
11. Lee, H., **Longhurst, M. L.**, & Lee, H. (2017). An exploratory study on the effect of gifted students' science motivation on science self-efficacy. *Journal of Research in Curriculum & Instruction*, 21(1), 24-33.
12. **Longhurst, M. L.**, Coster, D. C., Wolf, P. G., Duffy, A. M., Lee, H., & Campbell, T. (2016). Multi-year professional development grounded in educative curriculum focused on integrating technology with reformed science teaching principles. *School Science and Mathematics*, 116(8), 430-441. [Impact factor-0.64, H index-2]
13. Campbell, T., **Longhurst, M. L.**, Wang, S. K., Hsu, H. Y., & Coster, D. C. (2015). Technologies and reformed-based science instruction: The examination of a professional development model focused on supporting science teaching and learning with technologies. *Journal of Science Education and Technology*, 24(5),

14. Wang, S. K., Hsu, H. Y., Campbell, T., Coster, D. C., & **Longhurst, M. L.** (2014). An investigation of middle school science teachers and students use of technology inside and outside of classrooms: Considering whether digital natives are more technology savvy than their teachers. *Education Technology Research and Development*. 62(6), 637-662. [Impact factor-3.86, H Index-71, Quartile 1]
15. Campbell, T., Zuwallack, R., **Longhurst, M. L.**, Shelton, B. E., & Wolf, P. (2014). An examination of the changes in science teaching orientations and technology-enhanced tools for student learning in the context of professional development. *International Journal of Science Education*, 36(11), 1815-1848. [Impact factor-1.240, H Index-81, Quartile 1]
16. Campbell, T., Dowdle, G., Shelton, B. E., Olsen, J., **Longhurst, M. L.**, & Beckett, H. (2013). Gaming as a platform for developing science practices. *Science Activities: Classroom Projects and Curriculum Ideas*, 50(3), 90-98.
17. Duffy, A. M., Wolf, P. G., Barrow, J., **Longhurst, M.**, Campbell, T. & Beckett, H. (2013). Ecological investigations within an interactive plant community simulation. *Science Scope*. 36(8), 42-51.
18. Campbell, T., **Longhurst, M. L.**, Duffy, A. M, Wolf, P. G., & Shelton, B. E. (2013). Science teaching orientations and technology-enhanced tools for student learning. *Research in Science Education*. 43(50), 2035-2057. [Impact factor-1.78, H Index-37, Quartile 1]
19. Campbell, T., **Longhurst, M. L.**, Duffy, A., Wolf, P., & Nagy, R. (2012). Investigating human impact in the environment with faded scaffolded inquiry supported by technologies. *Science Activities: Classroom Projects and Curriculum Ideas*, 49(4), 99-107.
20. Zsiray, S.W., & **Longhurst, M. L.**, (2003). Electronic portfolio and resume project. *Theories and Practices in Supervision and Curriculum*, 13, 31-34.
21. **Longhurst, M. L.** (2001). Attracting and keeping GREAT substitute teachers *Impact: A Journal for Secondary School Principals*, 2(1), 15-17.
22. **Longhurst, M. L.** (2001). Handyman training for substitutes: How districts can prepare substitute teachers. *SubJournal: For Personnel Responsible for Substitute Teachers*, 2(1), 45-52.
23. Hawkins, A., & **Longhurst, M. L.** (2000). Don't leave home without a SubPack. *New Teacher Advocate*, 8(1), 9.
24. **Longhurst, M. L.**, Smith, G. G., Sorenson, B.L. (2000). Enhance one year of education. *SubJournal: For Personnel Responsible for Substitute Teaching*, 1(1), 40-47.

## Books

1. **Longhurst, M. L.**, (2020). Foreward. In W. Melville & D. Kerr (editors) *Virtues as Integral to Science Education: Understanding the Intellectual, Moral, and Civic Value of Science and Scientific Inquiry* (pp. IX-XI).

2. Skinner, M., Lott, K., & **Longhurst, M. L.** (2010) *A Crack in the Night*. Logan, UT: Story-Express.
3. **Longhurst, M. L.**, (2002). *Search for the Water Cycle*. Salt Lake City, UT: International Office for Water Education.
4. Smith, G. G., **Longhurst, M. L.**, Latham, G., Murdock, C., & Goldenhersh, B. (2002). *Substitute Teacher Handbook*. Logan, UT: Utah State University.

### Conference Proceedings (Peer Reviewed)

1. \*Mahmoud, M. M., Becker, K. H., Mesner, N., Dupont, R., & **Longhurst, M. L.** (2018). *Factors influencing the interest level of secondary students going into STEM fields and their parents' perceived interest in STEM (evaluation)*. American Society for Engineering Education (ASEE) 2018 Annual Conference and Exposition. Salt Lake City, Utah.
2. \*Mahmoud, M. M., Becker, K. H., & **Longhurst, M. L.** (2017). *Hands-on summer workshop to attract middle school students to engineering*. American Society for Engineering Education (ASEE) 2017 Annual Conference and Exposition. Columbus, Ohio.
3. **Longhurst, M. L.**, Campbell, T., & Wolf, P. G. (2016). *Professional learning impact: Outcomes of PD grounded in reformed science teaching practices and educative curriculum*. National Association for Research in Science Teaching (NARST) 2016 National Conference. Baltimore, Maryland.
4. **Longhurst, M. L.** (2014). Conceptual fidelity or contextual classroom adaptation: Appropriation from professional learning. In J. Settlage & A. Johnston (EDS.), *Proceedings of the Science Education at the Crossroads Conference* (pp. 54-55). Portland, OR. [Available online at [www.scied](http://www.scied)]
5. **Longhurst, M. L.** (2012) *Developing educational and cultural awareness through value comparisons of international teaching assistants*. Paper presented at the 2012 International Seminar for Global Teacher Education and Teaching Practicum. December 18, 2012. Kyungpook National University, Daegu, South Korea. (Invited Presentation)
6. Freeman, M. K, Turner, S., **Longhurst M. L.**, & Sol, Y. H. (2012). *An international teacher education experience at Utah State University*. Paper presented at the 2012 International Seminar for Global Teacher Education and Teaching Practicum. December 18, 2012. Kyungpook National University, Daegu, South Korea. (Invited Presentation)

### Manuscripts or Books Submitted / Under Review

- \*Barlow, R., **Longhurst, M. L.**, Mahmoud, M., & Becker, K., (under review-revision).  
Teacher adaptation or adoption of activities from a professional learning experience

for K-12 science teachers incorporated into a student focused engineering summer camp. *Journal of Pre-College Engineering Education Research*.

- \*Judd-Murray, R., Warnick, B. K., Coster, D. C., **Longhurst, M. L.**, & Spielmaker, D. (under review). Development and validation of agricultural literacy instruments for adult populations. *Journal of Agricultural Education*. [Impact factor-1.55, H index-18]
- \*Glaze, A. R., Moyer-Packenham, P., & **Longhurst, M. L.** (under review). Teachers' conceptions of mathematics and intelligent tutoring system use. *Journal of Computers in Mathematics and Science Teaching*.
- \*Ridge, B. L., & **Longhurst, M. L.** (under review-revision). Peer to peer feedback and self-efficacy. *Teaching and Teacher Education*.
- Tofel-Grehl, C., \*Bennett, B., Lott, K., Hansen, T., \*Ball, D., **Longhurst, M. L.**, \*Balls, M. (under review). Misconceptions and Instruction: An Examination of How Elementary Science Teachers' Scientific Misconceptions Move from Private Understandings to Instructional Barriers. *Journal of Science Teacher Education*.

### Manuscripts in Preparation

- Jones, S. H., Putney, L. G., Campbell, B. D., & **Longhurst, M. L.** (in preparation). Teacher hope during COVID-19.
- \*Harris, N., & **Longhurst, M. L.**, (in preparation). Teacher professional learning: Google certification pilot. *Journal TBD*
- \*Horton, Z. R., & **Longhurst, M. L.**, (in preparation). Questioning questions: A grounded framework of teacher questioning. *Religious Educator*.

## PROFESSIONAL PRESENTATIONS

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### National & International Peer Reviewed Conference Presentations

1. **Longhurst, M. L.**, Lott, K. H., & \*Bennett, B. (2021). *Impact of distance delivery on 3-dimensional instruction for university students preparing to become teachers*. Paper session presented at the Annual Meeting of the Association for Science Teacher Education, Virtual Conference.
2. Jackson, R., **Longhurst, M. L.**, \*Barnes, B. B., \*Hall D. B., \*Walters, A. J., \*Moravek, A., & \*Riddle, C. (2021). *Enhancing science classrooms: Using life-science based kits to increase student comprehension and interest*. Paper session presented at the Annual Meeting of the Association for Science Teacher Education, Virtual Conference.
3. \*Barlow, R., **Longhurst, M. L.** & Becker, K. H. (2020). *Embedding teacher professional learning into the student-focused GEAR UP engineering summer camp*. American Society for Engineering Education (ASEE) 2020 Annual Conference and Exposition. Montreal, Canada.
4. **Longhurst, M. L.**, Lott, K. H., \*Bennett, B., & \*Mitchell, A. (2020). *Deepening teacher understanding and implementation of Disciplinary Core Ideas instruction through*

*pictorial representations*. Paper session presented at the Annual Meeting of the Association for Science Teacher Education, San Antonio, TX.

5. \*Bennett, B., **Longhurst, M. L.**, Tofel-Grehl, C., & Lott, K. (2020). *Assessing elementary teachers' conceptions of matter: Best practices that promote increased conceptual understanding*. Paper session presented at the Annual Meeting of the Association for Science Teacher Education. San Antonio, TX.
6. Tofel-Grehl, C., \*Bennett, B., \*Balls, M., \*Ball, D., Lott, K., & **Longhurst, M. L.** (2020). *From private conception to professional practice: A cross-case analysis of elementary teachers' scientific misconceptions and how they play out in classroom instruction*. Paper session presented at the Annual Meeting of the Association for Science Teacher Education. San Antonio, TX.
7. \*Ball, D., Tofel-Grehl, C., \*Bennett, B., **Longhurst, M. L.**, Webb, A., Durso, A., & French, S., (2020). *Influence of Situated Research Experience on Teaching Nature of Science*. Paper session presented at the Annual Meeting of the Association for Science Teacher Education. San Antonio, TX.
8. Lott, K. H., **Longhurst, M. L.** & \*Bennett, B. (2019, January). *Assessing in-service elementary teachers' conceptions of forces: Best practices that promote increased conceptual understanding*. Paper session presented at the Annual Meeting of the Association for Science Teacher Education. Savannah, Georgia.
9. \*Barlow, R., **Longhurst, M. L.** & Becker, K. H. (2018, June). *Work in progress: Integrating a teacher professional learning experience into the GEAR UP engineering summer camp*. American Society for Engineering Education (ASEE) 2019 Annual Conference and Exposition. Tampa, Florida.
10. Spielmaker, D. & **Longhurst, M. L.** (2018). *Next generation science standards: storylines, phenomena, & 3-dimensional learning*. National Agriculture in the Classroom (NAITCO) Conference. Chicago, Illinois.
11. Spielmaker, D. & **Longhurst, M. L.** (2018). *Learning lingo: A confusing, and confounding endeavor for educators*. National Agriculture in the Classroom (NAITCO) Conference. Chicago, Illinois.
12. \*Mahmoud, M. M., Becker, K. H., Mesner, N., Dupont, R., & **Longhurst, M. L.** (2018). *Factors influencing the interest level of secondary students going into STEM fields and their parents' perceived interest in STEM (evaluation)*. American Society for Engineering Education (ASEE) 2018 Annual Conference and Exposition. Salt Lake City, Utah.
13. **Longhurst, M. L.**, Lee, H., & Campbell, T. (2018). *Variation as a hard reality: Profiles of teacher learning trajectories*. National Association for Research in Science Teaching (NARST) 2018 National Conference. Atlanta, Georgia.
14. \*Mahmoud, M. M., Becker, K. H., & **Longhurst, M. L.** (2017). *Hands-on summer workshop to attract middle school students to engineering*. American Society for Engineering Education (ASEE) 2017 Annual Conference and Exposition. Columbus, Ohio.

15. Lee, H., **Longhurst, M. L.**, & Campbell, T. (2017). *The impact of technology-enhanced professional development in science on student's learning*. Paper session presented at the National Association for Research in Science Teaching (NARST) 2017 National Conference. San Antonio, Texas.
16. Campbell, T., Lee, H., **Longhurst, M. L.**, & McKenna, T. J. (2017). *Next generation science classrooms: A survey for examining the experiences of students in science classrooms*. National Science Teachers Association (NSTA) National Convention. Los Angeles, California.
17. Lott, K., Tofel-Grehl, C., **Longhurst, M. L.** (2017). *Assessing elementary teachers' conceptions of matter: Best practices that promote increased conceptual understanding*. Paper session presented at the Association for Science Teacher Education (ASTE) International Convention. Des Moines, Iowa.
18. **Longhurst, M. L.**, Campbell, T., Wolf, P. G. & Coster, D. C. (2016). *Impacts of educative multi-year science teacher professional development*. Paper session presented at the School Science and Mathematics Association (SSMA) 2016 Annual Convention. Phoenix, Arizona.
19. Becker, K., \*Mahmoud, M, and **Longhurst, M. L.** (2016). *GEARUP –STARS: Using summer engineering programs to promote STEM to underrepresented minorities*. World Engineering Education Forum (WEEF) Annual Conference, “Engineering for Smart Society.” Seoul, South Korea.
20. **Longhurst, M. L.**, Campbell, T., & Wolf, P. G. (2016). *Professional learning impact: Outcomes of PD grounded in reformed science teaching practices and educative curriculum*. Paper session presented at the National Association for Research in Science Teaching (NARST) 2016 National Conference. Baltimore, Maryland.
21. **Longhurst, M. L.**, Jones, S. H., & Campbell, T. (2016). *Fruitful professional learning: conceptual inputs, practical inputs, and ownership as mediators of professional learning appropriation*. Paper session presented at the American Educational Research Association (AERA) Annual Conference. Washington, DC.
22. **Longhurst, M. L.**, Lott, K., (2016). *A model for implementation: How one district is preparing elementary teachers to engage student in 3-Dimensional science*. Association for Science Teacher Education (ASTE) International Convention. Reno, Nevada.
23. Campbell, T., **Longhurst, M.**, Lee, H., & Coster, D. (2016). *Multi-year professional development for integrating technology with reformed science classrooms*. Poster presentation at the NSF PI Meeting, Washington, D.C.
24. Campbell, T., Wang, S. K., Hsu, H., Coster, D., & **Longhurst, M. L.** (2015). *Reformed-based science instruction: The impact of professional development on teacher self-efficacy and classroom practice and student motivation and achievement*. American Educational Research Association (AERA). Chicago, Illinois.
25. **Longhurst, M. L.**, Campbell, T., & Coster, D. (2015). *Impact of experiencing professional learning grounded in reformed science teaching practices and educative curricula: An investigation of the outcomes of a science teacher*

*professional development*. Association for Science Teacher Education (ASTE) International Convention. Portland, Oregon.

26. Shelton, B. E., \*Olsen, J., & **Longhurst, M. L.** (2015). *Motivational and cognitive processes: Teachers' beliefs, judgments, and knowledge*. American Educational Research Association (AERA). Chicago, IL.
27. Tofel-Grehl, C. & **Longhurst, M. L.**, (2015). *Making it work: An honest look at teaching using makerspace technology*. Keynote Address - Making Innovation: Makerspace Conference. Logan, Utah.

Prior to Tenure Appointment

28. Campbell, T., **Longhurst, M. L.**, Wang, S., Hsu, H., & Coster, D. (2014). *New technologies and reformed-based science instruction: An examination of the professional development focused on supporting science teaching and learning with technologies*. Association for Science Teacher Education (ASTE) International Convention. San Antonio, Texas.
29. **Longhurst, M. L.**, Jones, S. H., & Campbell, T. (2014). *Investigating the appropriation of professional learning through case studies*. American Association of Behavioral and Social Sciences (AABSS) 2014 National Conference. Las Vegas, Nevada.
30. **Longhurst, M. L.**, & Freeman, M. (2014). *Utilizing a particularistic method to investigate teaching practices of international teaching assistants*. Ethnographic and Qualitative Research Conference (EQRC) 2014 National Conference. Las Vegas, Nevada.
31. Shelton, B. E., Campbell, T., **Longhurst, M. L.**, & Olsen, J. (2014). *Integrated scientific inquiry classrooms: Cyber-enabled learning and teacher professional development*. Great Ideas in STEM Education Research. Boise, ID.
32. Shelton, B. E., Campbell, T., **Longhurst, M. L.**, & Olsen, J. (2014). *Integrated scientific inquiry classrooms: Cyber-enabled learning and teacher professional development*. Great Ideas in STEM Education Research. Boise, ID.
33. Wang, S. K., Campbell, T., Hsu, H. Y., Coster, D., & **Longhurst, M. L.** (2014). *Investigation of middle school science teachers' and students' use of technology inside and outside of classrooms*. Annual American Educational Research Association (AERA) Meeting. Philadelphia, Pennsylvania.
34. Campbell, T., Dowdle, G., Barrow, J., Stewart, A., Shelton, B.E., Duffy, A. M., **Longhurst, M. L.**, & Wolf, P. G. (2013). *Cyber-enabled learning in Unity: Scientific inquiry and gaming supported by assessment*. National Science Teachers Association (NSTA) National Convention. San Antonio, Texas.
35. Child, B., Maahs-Fladung, C., & **Longhurst, M. L.** (2013). *Logan elementary math endorsement*. Math Science Partnership (MSP) Conference. Washington, D. C.
36. Freeman, M. K., Turner, S., & **Longhurst, M. L.** (2013). *A South Korean and U. S. teacher education partnership: A three-year report*. Northern Rocky Mountain Educational Research Association (NRMERA) Conference. Jackson Hole, Wyoming.

37. **Longhurst, M. L.**, Campbell, T., Zuwallack, R., Duffy, A. M., Wolf, P. G., & Shelton, B. E. (2013). *Reexamining science teaching orientations and use of technology-enhanced tools for student learning: One year later*. Proceedings of the 2012 International Conference of the Association for Science Teacher Education (ASTE). Jan. 10-12. Charleston, South Carolina.  
<http://theaste.org/pubs/proceedings/2013proceedings.pl>
38. Campbell, T., **Longhurst, M. L.**, Duffy, A., Wolf, P., & Shelton, B. (2012). *Technology use in science classrooms and reformed teaching*. Presentation at 2012 International Conference of The Association for Science Teacher Education (ASTE). Clearwater Beach, Florida.
39. Campbell, T., **Longhurst, M. L.**, Wang, S., Hsu, H.Y., & Runco, L. (2012). *Cyber-enabled learning: Beginning with a baseline*. (DR K-12 Grant # 1020086) National Science Foundation Discovery Research K-12 Principal Investigator Meeting. Crystal City, Virginia.
40. **Longhurst, M. L.** (2012). *Developing Educational and Cultural Awareness Through Value Comparisons of International Teaching Assistants*. International Seminar for Global Teacher Education Program and Teaching Practicum. Daegu, South Korea.
41. **Longhurst, M. L.**, & Joeckel, G. (2012) *PDF Syllabus Builder: Open-Source Tool for Online Instructors, Course Developers and Instructional Designers*. Emerging Technologies for Online Learning International Symposium (Sloan-C). Las Vegas, Nevada.
42. Lott, K., **Longhurst, M. L.** (2011) *Elementary CORE Academy: Possible impacts on elementary teachers and students*. Presentation at 2011 International Conference of the Association for Science Teacher Education (ASTE). Minneapolis, Minnesota.
43. **Longhurst, M. L.**, Nance P., & Paulson N. (2006) *Statewide professional development is possible: Utah's elementary CORE academy*. Presentation at the Annual National Staff Development Council (NSDC) Conference. Nashville, Tennessee.
44. **Longhurst, M. L.** (2002). *Training first year and substitute teacher*. National Association of Elementary School Principals (NAESP). San Antonio, Texas.
45. **Longhurst, M. L.**, & Tippetts, Z. (2002). *The electronic portfolio and resume project*. Nevada League of Professional Schools, Spring Conference Session. Henderson, Nevada.
46. **Longhurst, M. L.** (2001). *Training first year and substitute teachers*. Presentation at the Annual National Staff Development Council (NSDC) Conference. Denver, Colorado.
47. **Longhurst, M. L.** (2000). *Enhance 1 year of learning with substitute teacher training*. Presentation at the Annual National Staff Development Council (NSDC) Conference. Atlanta, Georgia.
48. **Longhurst, M. L.** (2000). *Implementing district policies and practices that effectively recruit and retain substitutes*. Presentation at the Annual National Staff Development Council (NSDC) Conference. Atlanta, Georgia.

49. **Longhurst, M. L.** (1999). *Substitute teacher skill training*. Presentation at the Annual National Staff Development Council (NSDC) Conference. Dallas, Texas.
50. **Longhurst, M. L.** (1999). *Dealing with the substitute teacher shortage*. American Association of School Personnel Administrators (AASPA) Conference Presentation. Phoenix, Arizona.

### **Regional and Local Presentations**

51. **Longhurst, M. L.**, (2021). *Cultivating Principled Adaptation of Diverse Perspectives and Pedagogy in Science Learning*. Utah Science Teachers Association Annual Conference (UtSTA) 2021 Virtual State Conference.
52. **Longhurst, M. L.**, (2019). *3-5 Draft Standards Review*. Utah Science Teachers Association Annual Conference (UtSTA) 2019 State Conference. Provo, Utah.
53. **Longhurst, M. L.**, & Spielmaker, D. (2018). *NGSS: Storylines, Phenomena, and 3-D Learning*. National Agriculture in the Classroom Organization's Leadership Summit. Chicago, Illinois.
54. Spielmaker, D., & **Longhurst, M. L.** (2018). *Learning Lingo*. National Agriculture in the Classroom Organization's Leadership Summit. Chicago, Illinois.
55. **Longhurst, M. L.** (2018). *Adapting Hands-On Learning Experiences Using Video*. Utah State University E-Learning Workshop. Invited presentation for Empowering Teaching Excellence (ETE) Conference. Logan, Utah.
56. **Longhurst, M. L.** (2016). *Three dimensions of science learning*. Invited monthly presentations to Edith Bowen Laboratory School faculty and staff. Logan, Utah.
57. **Longhurst, M. L.**, & Black, M. (2016). *Introduction to new sixth grade SEEd standards: Shifts, Strands, & Standards*. Utah Science Teachers Association Annual Conference (USTA) 2016 State Conference. Provo, Utah.
58. **Longhurst, M. L.**, Tofel-Grehl, C. (2016). *Utah State University's Elementary STEM Endorsement Program*. STEM Utah Best Practices Conference. Sandy, Utah.
59. **Longhurst, M. L.** (2015). *Three dimensional learning for the new science standards*. Invited presentation to the Informal Science Education Enhancement (iSEE) partners. Salt Lake City, Utah.
60. **Longhurst, M. L.** (2014-15). *Elementary STEM levy development and delivery*. Invited monthly presentations to Logan City School District teacher leaders. Logan, Utah.
61. **Longhurst, M. L.**, & Woods, S. (2015). *Presentation of performance task and framework – new 6<sup>th</sup> grade SEEd standards*. Utah Science Teachers Association Annual Conference (USTA) 2015 State Conference. Provo, Utah.

### **Prior to Tenure Appointment**

62. **Longhurst, M. L.** (2014). *Understanding the 3-dimensions of the science standards on the horizon*. Invited presentation to the Utah state office of education elementary principals mathematics and science leadership academy. Cedar City, Utah.
63. **Longhurst, M. L.** (2014). *Using the practices*. Invited presentation to the Utah state office of education elementary principals mathematics and science leadership

academy. Logan, Utah.

64. Young, S., & **Longhurst, M. L.** (2014). *Practices contained in the science standards*. Invited presentation to the Cache County School District secondary science teachers. Mendon, Utah.
65. **Longhurst, M. L.** (2013). *Supporting professional learning through utilizing technology classrooms*. Invited presentation to the Utah state office of education elementary principal's mathematics and science leadership academy. Logan, Utah.
66. **Longhurst, M. L.** (2011). *Mathematical Practice Standards*. Invited presentation at Cache County School District. North Logan, Utah.
67. **Longhurst, M. L.** (2008). *Multi-District Preschool Conference: Behavior, cognition and language acquisition*. Invited presentation at Granite School District. Salt Lake City, Utah.
68. **Longhurst, M. L.** (2005). *Using assessment in the classroom*. Invited presentation at River Heights Elementary. River Heights, Utah.
69. **Longhurst, M. L.** (2002). *When the cat is away the mice will...* Presentation at the Utah Mentor Teacher Academy Conference. Provo, Utah.
70. **Longhurst, M. L.** (2001). *Training substitutes and first year teachers*. Presentation at the Utah Association for Curriculum Development (UASCD/USDC). Park City, Utah.
71. **Longhurst, M. L.** (2001). *STEP-IN substitute teacher training*. SubSolutions Conference. Park City, Utah.
72. **Longhurst, M. L.** (2001). *5<sup>th</sup> & 6<sup>th</sup> Grade Science for the non-scientist workshop*. Elementary science teacher training. Bear Lake, Utah.
73. **Longhurst, M. L.** (2000). *Substitute training on a budget*. SubSolutions Conference. Park City, Utah.
74. **Longhurst, M. L.** (2000). *3<sup>rd</sup> & 4<sup>th</sup> grade science for the nonscientist workshop*. Elementary science teacher training. Bear Lake, Utah.
75. **Longhurst, M. L.** (1999). *K-1 & 2<sup>nd</sup> grade science workshop*. Elementary science teacher training. Bear Lake & Provo, Utah.
76. **Longhurst, M. L.** (1997). *Student-led conferencing training*. School training for staff of Porter Elementary. Mesa, Arizona.
77. **Longhurst, M. L.** (1997). *Experiential education workshop*. School workshop for in-service teachers at Porter Elementary. Mesa, Arizona.

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#### **FUNDED PROJECTS (Total funding \$9.8 million)**

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1. Sansom, R. L., Leary, H. M., **Longhurst, M. L.**, & Stowers (2021). *Developing the Pedagogical Skills and Science Expertise of Teachers in Underserved Rural Settings*. National Science Foundation Division of Undergraduate Education, Noyce. Award#2101383 Total Support: \$2,997,000. (USU SubAward: \$157,517).

2. Wathen, M., Walker, C., Faurot, V., Warburton, T. T., Sorensen, K. N., & **Longhurst, M. L. (USU SubAward P.I.)**, (2021). *Focusing on Professional Engagement to Increase the Number of Highly Effective Science and Mathematics Teachers*. National Science Foundation Division of Undergraduate Education, Noyce. Award#2050635 Total Support: \$1,200,000. (USU SubAward: \$73,415).
3. Patterson, M., & **Longhurst, M. L. (Institutional P.I.)**, (2017). *Elementary STEM (ESTEM)*. Elementary STEM Endorsement Cohort Program, Utah STEM Action Center. (2-year project), Total Support: \$472,500.
4. Spielmaker, D., & **Longhurst, M. L.** (2016). *Agriculture in the Classroom Capacity Building*: United States Department of Agriculture (USDA). Agreement No. 2013-38858-21212. Total Support: \$378,836. (NALO SubAward: \$25,000).
5. Tolman, R., Black, D., Clark, G. R., **Longhurst, M. L. (USU SubAward P.I.)**, & Walker, C. (2016). *Noyce Professional Engagement for Educators in Math & Science Phase II*. National Science Foundation Division of Undergraduate Education, Noyce. Award#1557350 Total Support: \$1,050,000. (USU SubAward: \$157,517).
6. Patterson, M., **Longhurst, M. L. (Institutional P.I.)**, Lott, K., Nadelson, L., & Tofel-Grehl, C. (2015). *Regional Partnership for Elementary STEM (ESTEM)*. Elementary STEM Endorsement Cohort Program, Utah STEM Action Center. (2-year project), Total Support: \$261,712.
7. Child, B., Moyer-Packenham, P., Kohler, B., Ng, D., & **Longhurst, M. L. (Co-P.I.)** (2012). *Elementary Math Endorsement Mathematics & Science Partnership Project*. Utah Mathematics and Science Partnership Grant, Utah State Office of Education. (3-year project), Total Support: \$223,045.
8. Campbell, T., Wolf, P., Shelton, B., Coster, D., & **Longhurst, M. L. (SubAward P.I.)** (2010). *Cyber-enabled learning: Digital Natives in Integrated Scientific Inquiry Classrooms*. National Science Foundation Discovery Research K-12. Award#1020086 CFDA No. 47.076, Total Support: \$2,500,000.

Prior to Tenure Appointment

9. **Longhurst, M. L. (P.I.)** (2008). *Elementary CORE Academy*. State Professional Inservice Funds, C-7's. Utah State Office of Education. K, 1<sup>st</sup>, & 2<sup>nd</sup> Grades: \$43,075; 3<sup>rd</sup> & 4<sup>th</sup> Grades \$37,000; 5<sup>th</sup>, & 6<sup>th</sup> Grades; \$35,000; Total Support: \$115,075.
10. **Longhurst, M. L. (P.I.)**, (2008). *Elementary CORE Academy*, State Staff Development Funds. Utah State Office of Education. K, 1<sup>st</sup>, & 2<sup>nd</sup> Grades: \$145,000; 3<sup>rd</sup> & 4<sup>th</sup> Grades \$98,000; 5<sup>th</sup>, & 6<sup>th</sup> Grades \$100,000; Special Education \$50,000. EA8331, EA8332, EA8333, AF14824, AF14827, AF14828, Total Support: \$393,000.
11. **Longhurst, M. L. (P.I.)** Taylor, M., Kohler, B., & Smith, G. G., (2007-2009). *CORE Academy Mathematics and Science Partnership Project*. Utah Mathematics and Science Partnership Grant, Utah State Office of Education. (3 year project) AF # 14825, Total Support: \$510,000.

12. **Longhurst, M. L. (P.I.)** (2007). *Elementary CORE Academy*. State Professional Inservice Funds, C-7's. Utah State Office of Education. K, 1<sup>st</sup>, & 2<sup>nd</sup> Grades: \$40,000; 3<sup>rd</sup> & 4<sup>th</sup> Grades \$37,000; 5<sup>th</sup>, & 6<sup>th</sup> Grades; \$35,000; Total Support: \$112,000.
13. **Longhurst, M. L. (P.I.)** (2007). *Elementary CORE Academy*, State Staff Development Funds. Utah State Office of Education. K, 1<sup>st</sup>, & 2<sup>nd</sup> Grades: \$253,373; 3<sup>rd</sup> & 4<sup>th</sup> Grades \$93,000; 5<sup>th</sup>, & 6<sup>th</sup> Grades \$154,000; Special Education \$75,000. EA7346, EA7347, EA7345, AF14607, AF14608, AF14609, Total Support: \$575,373.
14. **Longhurst, M. L. (P.I.)** (2006). *Elementary CORE Academy*, Professional Development Funding. WestEd. Total Support: \$130,000.
15. **Longhurst, M. L. (P.I.)**, (2006). *Elementary CORE Academy*. State C-7 Discretionary Funding. Utah State Office of Education. K, 1<sup>st</sup>, & 2<sup>nd</sup> Grades: \$40,000; 3<sup>rd</sup> & 4<sup>th</sup> Grades \$32,000; 5<sup>th</sup>, & 6<sup>th</sup> Grades; \$30,000; Total Support: \$102,000.
16. **Longhurst, M. L. (P.I.)** (2006). *Elementary CORE Academy*, State Staff Development Funds. Utah State Office of Education. K, 1<sup>st</sup>, & 2<sup>nd</sup> Grades: \$85,000; 3<sup>rd</sup> & 4<sup>th</sup> Grades \$93,000; 5<sup>th</sup>, & 6<sup>th</sup> Grades \$95,000; Special Education \$75,000; AF 14331, AF14319, Total Support: \$348,000.
17. **Longhurst, M. L. (P.I.)** (2005). *Elementary CORE Academy*. State C-7 Discretionary Funding. Utah State Office of Education. K, 1<sup>st</sup>, & 2<sup>nd</sup> Grades: \$65,000; 3<sup>rd</sup> & 4<sup>th</sup> Grades \$30,000; 5<sup>th</sup>, & 6<sup>th</sup> Grades; \$30,000; Total Support: \$125,000.
18. **Longhurst, M. L. (P.I.)** (2005). *Elementary CORE Academy*, State Staff Development Funds. Utah State Office of Education. K, 1<sup>st</sup>, & 2<sup>nd</sup> Grades: \$112,495; 3<sup>rd</sup> & 4<sup>th</sup> Grades \$95,000; 5<sup>th</sup>, & 6<sup>th</sup> Grades \$95,000; Special Education \$75,000; Total Support: \$377,495.
19. **Longhurst, M. L. (P.I.)**, Evans, J. P., Rowley, E. R., & Smith, G. G. (2004). *CORE Academy Mathematics and Science Partnership*. Utah Mathematics and Science Partnership Grant, Utah State Office of Education. (3 year project) AF # 13874, Total Support: \$639,015.
20. **Longhurst, M. L. (P.I.)** (2004). *Elementary CORE Academy*. State C-7 Discretionary Funding. Utah State Office of Education. K, 1<sup>st</sup>, & 2<sup>nd</sup> Grades: \$40,000; 3<sup>rd</sup> & 4<sup>th</sup> Grades \$40,000; 5<sup>th</sup>, & 6<sup>th</sup> Grades; \$30,000; Total Support: \$110,000.
21. **Longhurst, M. L. (P.I.)** (2004). *Elementary CORE Academy*, State Staff Development Funds. Utah State Office of Education. K, 1<sup>st</sup>, & 2<sup>nd</sup> Grades: \$185,000; 3<sup>rd</sup> & 4<sup>th</sup> Grades \$192,495; 5<sup>th</sup>, & 6<sup>th</sup> Grades \$50,000; Special Education \$75,000; Total Support: \$502,495.
22. Smith, G. G., **Longhurst, M. L. (P.I.)**, & Cangelosi, J. (2003). *CORE Implementation Model*. Utah State Agency for Higher Education. Total Support: \$147,000.
23. **Longhurst, M. L. (P.I.)** (2003). *Elementary CORE Academy*, State Eisenhower Professional Development Program. Utah State Office of Education. K, 1<sup>st</sup>, & 2<sup>nd</sup> Grades: \$60,000; 3<sup>rd</sup> & 4<sup>th</sup> Grades \$57,549; 5<sup>th</sup>, & 6<sup>th</sup> Grades; \$60,000; Total Support: \$177,549.

24. **Longhurst, M. L. (P.I.)** (2003). *Elementary CORE Academy*, State Staff Development Funds. Utah State Office of Education. K, 1<sup>st</sup>, & 2<sup>nd</sup> Grades: \$210,000; 3<sup>rd</sup> & 4<sup>th</sup> Grades \$190,000; 5<sup>th</sup>, & 6<sup>th</sup> Grades; \$99,600; Total Support: \$499,600.
25. **Longhurst, M. L. (P.I.)** (2003). *Elementary CORE Academy*, Special Education Support. Utah State Office of Education. Total Support: \$40,000.
26. **Longhurst, M. L. (P.I.)**, & Smith, G. G. (2001). *Creation of "Search for the Water Cycle."* Utah State Office of Education. Total Support: \$20,000.
27. **Longhurst, M. L. (P.I.)** (2002). *Elementary CORE Academy*, Professional Development Funding. WestEd. Total Support: \$50,000.
28. **Longhurst, M. L. (P.I.)** (2002). *Elementary CORE Academy*, State Experimental Development Funds. Utah State Office of Education. Total Support: \$35,000.
29. **Longhurst, M. L. (P.I.)** (2002). *Elementary CORE Academy*, State Eisenhower Professional Development Program Discretionary Funds. Utah State Office of Education. \$126,016.
30. **Longhurst, M. L. (P.I.)** (2002). *Elementary CORE Academy*, State Staff Development Funds. Utah State Office of Education. Total Support: \$100,000.
31. Zsiray, S. (P.I.), & **Longhurst, M. L. (Co-P.I.)** (2001). *Goals 2000 Electronic Portfolio and Resume Project*. Utah State Office of Education. Total Support: \$30,000.
32. Smith, G. G., & **Longhurst, M. L. (Co-P.I.)** (2000). *Science for the Non-Scientist*. Eisenhower Professional Development Program, Utah State Office of Education. Total Support: \$36,602.
33. Smith, G. G., **Longhurst, M. L. (Co-P.I.)**, Klag, P., Tolman, M., & Murdock, C., (1999). *Science for the Non-Scientist*. Eisenhower Professional Development Program, Utah State Office of Education. Total Support: \$31,835.

## **TRAINING MATERIALS**

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- Longhurst, M. L.** (2008). *Elementary CORE Academy Handbooks K-6*.
- Longhurst, M. L.** (2007). *Elementary CORE Academy Handbooks K-6*.
- Longhurst, M. L.** (2006). *Elementary CORE Academy Handbooks K-6*.
- Longhurst, M. L.** (2005). *Elementary CORE Academy Handbooks K-6*.
- Longhurst, M. L.** (2004). *Elementary CORE Academy Handbooks K-6*.
- Longhurst, M. L.** (2003). *Elementary CORE Academy Handbooks K-6*.
- Longhurst, M. L.** (2002). *Elementary Science CORE Academy Content*.
- Longhurst, M. L.** (2002). *Search for the Water Cycle*, 4<sup>th</sup> Grade Water Curriculum.
- Longhurst, M. L., Smith, G.G.** (2000). *SubInstructor CD*. Logan, UT: Substitute Teaching Institute, Utah State University.
- Longhurst, M. L., Smith, G.G.** (1999). *SubOrientation Video*. Logan, UT: Substitute Teaching Institute, Utah State University.

## RESEARCH SUPERVISION

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### Post-Doctoral Fellow Supervision

Dr. Hyunju Lee (Supervisor 2015-2016) Utah State University. Dr. Lee's responsibilities included literature searches and reviews, conducting statistical data analyses, and writing manuscripts for publication from data collected in the funded *Cyber-enabled Learning: Digital Natives in Integrated Scientific Inquiry Classrooms* grant.

### Chair/Co-Chair for Ph.D. Students

Luara Wheeler (Chair 2020) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

Brady Ridge (Chair 2018) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

Brenda Bennett (Chair 2017) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

Nick Harris (Chair 2017) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

John Louviere (Graduated 2020) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

Zachary Horton (Graduated 2019) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

Andrew Glaze (Graduated 2019) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

### Committee Member – Ph.D. Students

Amelia Miller (Committee Member 2021) Utah State University, Applied Sciences, Technology, & Education, Career & Technical Education

Clayton Chamberlain (Committee Member 2020) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

Melissa Mendenhall (Committee Member 2019) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

Katie Lundell (Committee Member 2019) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

April Mitchell (Committee Member 2018) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

Doug Ball (Committee Member 2017) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

Malia Balls (Committee Member 2017) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

Cory Smith (Committee Member 2018) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

Kevin Thomas (Committee Member 2014) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

Mike Walker (Committee Member 2014) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

Ryan Barlow (Graduated 2020) Utah State University, Engineering Education

David Joy (Graduated 2020) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

Sydney Schoepf (Graduated 2020) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

Donny Anderson (Graduated 2019) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

Rose Judd-Murray (Graduated 2019) Utah State University, Agriculture Systems Technology & Education, Agriculture Education

Mason Lefler (Graduated 2018) Utah State University, School of Teacher Education and Leadership, Educational Leadership

Tyler Poll (Graduated 2018) Utah State University, School of Teacher Education and Leadership, Educational Leadership

Christopher Garner (Graduated 2018) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

Murad Mahmoud (Graduated 2018) Utah State University, Engineering Education

Kevin Whitehead (Graduated 2017) Utah State University, School of Teacher Education and Leadership, Curriculum & Instruction

## TEACHING

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### Course Instruction:

ELED 4056 – Elementary Education Content Block Practicum Coordinator	2020-Present
TEAL 7711 – Contemporary Perspectives on Teaching & Learning Sci. Ed.	2021
TEAL 7712 – STEM Education: Research Development	2019-Present
TEAL 7713 – Nature of Science Education Research	2018-Present
TEAL 5105 – Motivation and Classroom Management	2020
TEAL 6265 – STEM Practices & PBL for Teachers	2016-Present
ELED 4000 & 4020 – Elementary Science Methods	2013-Present
TEAL 6940 – Administrative Supervisory Internship Supervisor	2013-2016
TEAL 6205 – The Nature of Science and Engineering for Teachers	2015-Present
TEAL 6190 – Theories of Teaching and Learning	Spring 2015
ELED 3005 – Beginning Classroom Management	2011-2013
ELED 4005 – Intermediate Classroom Management	2011-2013
Supervisor of Student Teachers	2009-2011

ELED 6220 – Workshop in Early Childhood Education	2003-2008
ELED 6240 – Workshop in Science Education	2003-2008
ELED 6300 – Workshop in Math Education	2003-2008
SCED 3300 – Science Clinical I	Fall 2005
SCED 4300 – Science Clinical II	Fall 2005
Science for the Non-Scientist Workshops, Coordinator	1999-2001

### **Course Development:**

TEAL 7820 – ST: STEM Education Integration: Current Issues & Policy	2019
TEAL 7713 – Nature of Science Education Research	2018
TEAL – Lead in Elementary STEM Endorsement Development	2015-2019
TEAL 6265 – STEM Practices & PBL TEAL	2016
TEAL 6205 – The Nature of Science and Engineering	2015
ELED 3005 – Beginning Classroom Management	2013
ELED 4005 – Intermediate Classroom Management	2013
ELED 6240 – Workshop in Science Education	2003
ELED 6300 – Workshop in Math Education	2003

## **PROFESSIONAL RECOGNITION**

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2018	<i>Northern Utah Curriculum Consortium 2018 Leadership Award: Curriculum Development and Implementation.</i> Northern Utah Curriculum Consortium, October 11, 2018.
2018	<i>College of Education and Human Services – Teacher of the Year,</i> Utah State University, April 2018.
2018	<i>School of Teacher Education and Leadership –Teacher of the Year,</i> Utah State University, April 2018.
2016	<i>Alan Alda Center for Communicating Science Workshop –</i> Selected Nominee, Utah State University, October 2016.
2014	<i>Outstanding Higher Education Teacher –</i> Utah Science Teachers Association, February 2014.
2009	<i>Marvin N. Tolman Life Long Service Award –</i> Utah Science Teachers Association, February 2009.
2004	<i>Outstanding Higher Education Teacher –</i> Utah Science Teachers Association, February 2004.
2001	<i>Telly Award –</i> Producer/Director of the SubInstructor CD, 2001.
2001	<i>Aegis Award of Excellence –</i> Interactive CD-ROM, SubInstructor Producer/Director, 2001.
2001	<i>Award of Distinction, The Videographer Awards –</i> SubOrientation, Substitute Teaching Institute, 2001.

## SERVICE

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### International / National Service:

Association for Science Teacher Education (ASTE) Equity Committee	2020-2023
Association for Science Teacher Education (ASTE) Conference Co-Chair	2020

### University Service:

GenEd QL/QI Subcommittee	2021-Present
Empowering Teaching Excellence (ETE) Faculty Committee	2017-2019
Center for Student Analytics Grant Advisory Committee	2019-Present

### Departmental Service:

School of Teacher Education and Leadership: Content Block Coordinator	2020 - Present
ELED 5105 Course Review Committee Chair	2018-2019
School of Teacher Education and Leadership: Department Head Search Committee, Member	2014, 2016, 2017
Undergraduate Faculty Committee	2015-Present
Graduate Faculty Committee	2015-Present
Educational Leadership Admission Review Panel	2013-2015
School of TEAL – Group Assessment Review Panel	2009-2018
Capstone Project Sub-Committee, Co-Chair	2015-2016
School of Teacher Education and Leadership: Awards & Scholarship Committee	2013, 2017, 2018-Present

### Manuscript, Presentation, or Grant Review:

Proposal Reviewer – <i>Association for Science Teacher Education (ASTE)</i>	2019-Present
<i>National Association for Research in Science Teaching (NARST)</i>	2016-Present
Manuscript Reviewer – <i>Professional Development in Education</i>	2020-Present
<i>Journal of Science Teacher Education</i>	2019-Present
<i>EURASIA Journal of Mathematics, Science and Technology Ed.</i>	2018-Present
<i>Journal of Science Education and Technology</i>	2013-Present
<i>Journal of Teacher Education</i>	2014-Present
<i>School Science and Mathematics</i>	2015-Present
<i>British Journal of Educational Technology</i>	2013-Present
Managing Editor <i>SubJournal: For personnel responsible for substitute teaching.</i>	2000-2002

### Consulting Local, Regional, State, National or International Organizations:

Utah State Board of Education: Elementary Science Endorsement Writing Team	2019-2021
Utah State Board of Education: Professional Learning Advisory Council	2017-2020

Utah State Board of Education: K-5 & 9-12 Science Core Revision Team (3 <sup>rd</sup> – 5 <sup>th</sup> Grade Band writing team, Co-Chair)	2018-2019
Utah State Office of Education: Science Core Revision Team (6 <sup>th</sup> Grade writing team, Co-Chair)	2013-2014
School Administrator Assessment Team Member Box Elder and Cache County School District screening	2014-2018
Science Teacher Training for Cache County School District	2014
<b>Outreach Mission of Utah State University:</b>	
USU MESA/STEP Coordinator	2019-Present
Northern Utah Curriculum Consortium	2017-Present
Guest Lecturer: University of Utah's GK-12 Program, Think Globally—Learn Locally	2014
MESA Competition Committee, Co-Chair	2009-2014
Hillcrest Elementary Science Fair, Judge	2010 & 2011
Davis School District Science Fair, Judge	2010
Collaborator for the State MESA Challenge at Physics Day	2010-2014
PAEMST, State Coordinator	2007
<b>Local, Regional, National or International Advisory or Governing Boards:</b>	
NSF Grant – Utah FUEL CS: Fostering Utah Education Learning for 4-6 Computer Science Project (USB)	2020-Present
Utah State Office of Education: Science Advisory Committee	2012-2019
State Science Education Coordination Committee	2000-Present
Utah Scientifically Based Research Committee, Member	2005-2008