

Curriculum Vita

Sandy White Watson

Professor of Curriculum & Instruction
University of Louisiana at Monroe
700 University Avenue
2-25 Walker Hall
Monroe, LA 71209
318-342-1300
swatson@ulm.edu

EDUCATION

Doctor of Education, Georgia Southern University, 2002
Curriculum & Instruction
Mathematics, Science, Technology

Master of Education, Georgia Southern University, 1996
Science Education

Bachelor of Science, Western Kentucky University, 1983
Biology, Biophysics, Physics

CERTIFICATES AND LICENSURES

Georgia Teacher Certification Composite Science (7-12) (expired)

PROFESSIONAL EXPERIENCE

2023-Present University of Louisiana Monroe, Monroe, LA
Professor of Curriculum & Instruction
Chase Endowed Professor of Teacher Education

2021-2023 University of Louisiana Monroe, Monroe, LA
Associate Professor of Curriculum & Instruction
Chase Endowed Professor of Teacher Education

2017-2021 University of Houston-Clear Lake, Houston, TX
Associate Professor of STEM Education, EDCI/STEM Program

2012-2013 University of Tennessee at Chattanooga, Chattanooga, TN
Co-Director: UTeaChattanooga
Professor: Curriculum Studies (Emphasis in Math, Science and Technology)

2010-2012 University of Tennessee at Chattanooga, Chattanooga, TN
Co-Director: UTeaChattanooga
Associate Professor: Curriculum Studies (Emphasis in Math, Science and Technology)

2007-2012	<u>University of Tennessee at Chattanooga, Chattanooga, TN</u> Associate Professor of Science Education
2002-2007	<u>University of Tennessee at Chattanooga, Chattanooga, TN</u> Assistant Professor of Science Education
1992-2002	<u>Wayne County Board of Education, Jesup, GA</u> Wayne County High School Science Teacher

COURSES TAUGHT AT ULM

Graduate

ELED 5010	Advanced Studies in Mathematics and Science
CURR 5073	Assessment and Accountability
EDFN 5081	Foundations of Educational Research
CURR 5023	Research-Based Instruction
CURR 7000	Doctoral Pro-Seminar
CURR 7005	Qualitative Research
CURR 7007	Research in Teaching and Learning
CURR 7014	Decision Making for School Improvement
CURR 7015	Dissertation
CURR 7016	Capstone

Undergraduate

CURR 1001	Navigating within a Culturally Pluralistic Society
CURR 3004	Middle and Secondary Methods II
CURR 4060	Residency 2 Practicum
CURR 4054	Residency 1 Seminar
ELED 4044	Elementary Science Methods
ELED 4045	Elementary Science Methods Lab

COURSES TAUGHT AT UHCL

Graduate

TCED 5031	Curriculum Design, Development, Implementation
TCED 5323	Teaching Science in the EC-6 Classroom (Masters)
EDLS 7138	STEM Curriculum Design, Development, Implementation
EDCI 8939	Dissertation

Undergraduate

TCED 1301	Introduction to the Teaching Profession
TCED 4322	Teaching Science in the EC-6 Classroom

COURSES TAUGHT AT UTC

Graduate

EDUC 513 Perspectives in Multiculturalism and Diversity
EDUC 590 Culminating Experience (Masters' Theses)

Undergraduate

EDUC 201 Teaching in the United States
EDUC 311 Science Concepts and Processes
EDUC 312 Teaching Science in the Elementary Classroom
EDUC 401 Lab Safety
EDUC 433 Curriculum Design and Evaluation in the Secondary Classroom
EDUC 454 Secondary Science Methods and Materials
UTSM 2020 Classroom Interactions
UTSM 4010 Project-Based Instruction

PUBLICATIONS

Dissertation

Watson, S. (2001). The motivational stories of how women become scientists: A hermeneutic phenomenological inquiry. (Publication No. 3041649) [Doctoral Dissertation: Georgia Southern University]. ProQuest Dissertations and Theses Global. <http://www.il.proquest.com>

Edited Books

Watson, S. (2024). *Applications of service-learning in higher education*. Robert Morris University: IGI Global Communications Publishing Co. (accepted and in progress).

Watson, S., Bell, J., & Austin, S. (2022). *Conceptual analyses of curriculum inquiry methodologies*. Robert Morris University: IGI Global Communications Publishing Co.
https://www.google.com/books/edition/Conceptual_Analyses_of_Curriculum_Inquir/NqlQEAAAQBAJ?hl=en
(1 citation)

Book Chapters

Watson, S. & Koers, G. (2024). Formulating effective qualitative research questions in education. In R. Throne (Ed.), *Qualitative research methods for dissertation research*. Robert Morris University: IGI Global Communications Publishing Co. (in press)

Watson, S. (2024). Women in the academy: Challenges, barriers, promising practices and policies. In S. Chakraborty (Ed.), *Challenges of globalization and inclusivity in academic research*. Robert Morris University: IGI Global Communications Publishing Co. (in press)

Watson, S. (2024). Developing science pedagogical content knowledge among preservice and novice elementary teachers. In N.R.T. Bedizel & T.A. Sen (Eds.), *Handbook of research on the development of pedagogical content knowledge (PCK)*. Robert Morris University: IGI Global Communications Publishing Co. <https://doi.org.10.4018/979-8-3693-0655-0>

- Watson, S.** (2023). [Re]Imagining an elementary science methods course as inquiry-based. In C. Mayakis (Ed.), *Using STEM-focused teacher preparation programs to reimagine elementary education* (pp. 68-85). Robert Morris University: IGI Global Communications Publishing Co. <https://doi.org.10.4018/978-1-6684-5939-3>
- Watson, S.** (2023). Recognizing and fostering the best-loved teacher self: One teacher's story. In C. Craig, D. McDonald, & G. Curtis (Eds.), *Learning, and the best-loved self in teaching and teacher education* (pp. 61-80). Palgrave Macmillan. <https://link.springer.com/book/10.1007/978-3-031-11902-6>
- Watson, S. & Case-Hanks, A.** (2023). (Dis)trusting science in the Trump era: The partisan divide. In M. Moussaoui (Ed.). *Global science-cooperation opportunities, challenges, and good practices* (pp. 229-244). Robert Morris University: IGI Global Communications Publishing Co. <https://doi.org.10.4018/978-1-6684-7874-5.ch010>
- Watson, S.** (2023). Socially assistive robotics as an intervention for children with autism spectrum disorder. In J. Bell & T. Guifford (Eds), *Using assistive technology for inclusive learning in K-12 classrooms* (pp. 24-41). Robert Morris University: IGI Global Communications Publishing Co. <https://doi.org.10.4018/978-1-6684-6424-3.ch002>
- Watson, S.** (2022). Hermeneutic phenomenology: Interpretation of lived experience. In S. W. Watson, J. Bell, & S. Austin (Eds.), *Conceptual analyses of curriculum inquiry methodologies* (pp. 204 - 222). Robert Morris University: IGI Global Communications Publishing Co. <https://doi.org.10.4018/978-1-7998-8848-2>
- Watson, S.** (2020). Resiliency and women: The journey to academic STEM leadership. In: Craig, C.J., Turchi, L., McDonald, D.M. (eds). *Cross-disciplinary, cross-institutional collaboration in teacher education* (pp. 197-219). Palgrave Studies on Leadership and Learning in Teacher Education. Palgrave Macmillan, Cham. https://doi.org/10.1007/978-3-030-56674-6_11
(2 citations)
- Kuhn, S., **Watson, S.** & Walters, T. (2014). Online homework and correlated success in university classes: A longitudinal study. In Kyei-Blankson, L. & Ntuli, E. (Eds.), *Practical applications and experiences in K-20 blended learning environments*. Robert Morris University: IGI Global Communications Publishing Co.
(8 citations)
- Watson, S.** (2010). Telementoring in teacher education. In Scigliano, D. (Ed.), *Telementoring in the K-12 classroom: Online communication technologies for learning* (pp. 148-172). Robert Morris University: IGI Global Communications Publishing Co. <https://doi:10.4018/978-1-61520-861>
(8 citations)

Refereed Journal Articles

International

- Watson, S. & Safadel, P.** (2024). The development of doctoral students' research self-efficacy and outcomes expectancy in an Ed.D. program. *American Journal of Qualitative Research*. (under review)
- Watson, S., Quintana-Cifuentes, J., Case-Hanks, A., & Schulte, A.** (2024). The U.S. landscape of elementary teachers' science course requirements. *The Journal of Science Teacher Education*. <https://doi.org/10.1080/1046560X.2024.2322209>.

Watson, S., Rotundo, H., Dumas, J., Jones, A. & Fields, V. (2023). The impact of an international service-learning experience on university students' community service attitudes. *Journal of Service Learning in Higher Education*, 18. <https://journals.sfu.ca/jslhe/index.php/jslhe/article/view/469/283>

Watson, S., & Baker, S. (2021). Elementary school library collections: A content analysis of science trade books for science content, literacy, and critical literacy criteria. *Reading Horizons: A Journal of Literacy and Language Arts*, 60(2) 77-103.
(3 citations)

Watson, S., Shan, X., George, B.T., Peters, M. (2021). Alignment of select elementary science curricula to the Next Generation Science Standards via the EQulP rubric. *Curriculum Perspectives*, 41, 17-26.
<https://doi.org/10.1007/s41297-021-00131-x>
(2 citations)

Watson, S., Dubrovskiy, A. & Peters, M. (2020). Increasing chemistry students' knowledge, confidence, and conceptual understanding of pH using a collaborative computer pH simulation. *Chemistry Education Research and Practice*, 21(2). <https://doi.org/10.1039/C9RP00235A>
(31 citations)

Watson, S. & Williams-Duncan, O. (2020). School administrators' perceptions of parental STEM awareness, strategies to promote STEM awareness, and student STEM preparation. *Research in Science and Technology Education*. <https://doi.org/10.1080/02635143.2020.1774747>
(29 citations)

Watson, S., Cothorn, T. & Peters, M. (2020). School administrators' perceptions of STEM awareness and resources. *AASA Journal of Scholarship and Practice*, 17(3), 19-40.
(3 citations)

George, B., **Watson, S.,** & Peters, M. (2020). The impact of participating in a STEM academy on girls' STEM attitudes and self-efficacy. *International Journal of Science Education*, 24(4).
<https://ejrsme.icrsme.com/article/view/20231>
(7 citations)

Watson, S., Unruh, J. & Weiser, B. (2020). A comparison of expert vs. novice delivery of STEAM-based instruction on the academic achievement of kindergarten students. *Journal of Elementary Education*, 30(1), 1-22.

Shaner, A., **Watson, S.,** Buxner, S. & Bakerman, M. (2018). ExMASS: A viable model for authentic student-scientist research partnerships. *Acta Astronautica*. <https://doi.org/10.1016/j.actaastro.2018.07.031>
(5 citations)

Watson, S. & Miller, T. (2013). LGBT oppression: A Freirean approach to transformation. *Multicultural Education*, 19(4), 2-7.
(39 citations)

Watson, S., Miller, T. & Patty, T. (2011). Peer collaboration in an early field experience: A replicable procedure for preservice teacher trainers. *Education*, 131(4), 798-817.
(24 citations)

Watson, S., Miller, T., Davis, L., & Carter, P (2010). Teachers' perceptions of the effective teacher. *Research in the Schools*, 17(2), 11-22.
(80 citations)

Watson, S. (2010, March). Biology and physics via the Internet: A study of Hiroshima and Nagasaki. *Conference paper published by the Society for Information Technology and Teacher Education, USA:* <http://site.aace.org/>

Miller, T., **Watson, S.** & Rutledge, V. (2008). Message tees and hidden curriculum. *Education Research and Perspectives*, 34(2), 91-103.
(4 citation)

Watson, S. (2007). Boys, masculinity and school violence: Reaping what we sow. *Gender and Education*, 19(6), 729-737.
(74 citations)

Watson, S. (2007). Hiroshima and Nagasaki: The atomic bombings and the resultant biological effects of radiation. *Japan Inservice/Preservice Teacher Module*. <http://68.60.199.117/pas/beta/>

Sandefur, S., **Watson, S.**, & Johnston, L. (2007): Literacy development, science curriculum, and the adolescent English language learner: Modifying instruction for the English-only classroom. *Multicultural Education*, 14(3).
(18 citations)

Watson, S. (2007). Science on a shoestring: Obtaining free and inexpensive science teaching materials. *Society for Advancement of Chicanos and Native Americans in Science News*, September.

Watson, S. (2006). Virtual mentoring in higher education: Teacher education and cyber-connections. *International Journal of Teaching and Learning in Higher Education*, 18(3), 168-179.
(52 citations)

Watson, S. & Johnston, L. (2006). Tolerance in teacher education: Restructuring the curriculum. *Multicultural Education*, 13(3). THIS ARTICLE IS ALSO PUBLISHED IN: Schultz, F. (Ed.). (2006). *Annual Editions: Education 07/08*. Akron, OH: McGraw-Hill.
(22 citations)

Watson, S., Miller, T., Rutledge, V., & Johnston, L. (2006): Professional development school graduate performance: Perceptions of principals. *The Teacher Educator*, 42(2), 77-86.
(16 citations)

Watson, S. (2002). The motivational stories of how women become scientists: Dissertation results. Paper presented at *Pathways to Change: An International Conference on Transforming Math and Science Education in the K16 Continuum* Washington D.C.
(15 citations)

Rea, D., Millican, K., & **Watson, S.** (2000) The serious benefits of fun in the classroom. *The Middle School Journal*, 31(4), 23-28.
(17 citations)

National

Watson, S. (2024). The science of artificial intelligence: An introduction. *The Science Teacher*.
<https://doi.org/10.1080/00368555.2024.2309697>

Watson, S. & Bell, J. (2022, November/December). Accommodating visually impaired students in secondary science. *The Science Teacher*, 40-49. <https://doi.org/10.1080/00368555.2022.12293737>

Watson, S. (2021). Culturally relevant pedagogy and the 5E lesson plan. *The Science Teacher*, (8)2, 56 – 62.
 (6 citations)

Watson, S. (2019). Virtual chemistry: Using the PhET pH scale simulation and the 5E model to enhance students' pH understanding. *The Science Teacher*, 25-30.
 (4 citations)

Watson, S. (2012). Science, language, and power: Describing shifting relationships. In J. Settlage & A. Johnston (Eds.), *Proceedings of the Science Education at the Crossroads Conference* (pp.70-71). Providence, RI.
<http://www.sciedxroads.org/proceedings2012.html>]

Watson, S. (2011). School of Education to UTeach: A difficult journey. In J. Settlage, A. Johnston, S. Dotger & R. Ceglie (Eds.), *Proceedings of the Science Education at the Crossroads Conference*. San Antonio, TX.
www.Sciedxroads.org/proceddings2011.html.

Watson, S. & Miller, T. (2009). Classification and the dichotomous key: Tools for identification. *The Science Teacher*, 76(3), 50-54.
 (24 citations)

Watson, S. (2009) Discovery bottles: A unique and inexpensive tool for the K-2 science classroom. *Science and Children*, 45(9), 20-24.
 (5 citations)

Watson, S. & Morris, J. (2009): University as Walmart: Consumerism in Academia. Paper presented at *The Society for Values in Higher Education Annual Fellows Meeting* (and published on SVHE web site): Elmhurst College, Elmhurst, IL. <http://www.svhe.org/content/papers-and-abstracts>

Watson, S. & Johnston, L. (2007). Assistive technology in the inclusive science classroom. *The Science Teacher*, 30(6).
 (41 citations)

Watson, S. (2006). Science on a shoestring: Obtaining free and inexpensive science teaching materials. *Science Scope*, 30(6).

Watson, S. & Rutledge, V. (2006). Online course delivery and student satisfaction (*ERIC Document Reproduction Service No. ED490363*).
 (15 citations)

Watson, S. (2006). Culminating experience: Empirical and action research (*ERIC Document Reproduction Service No. ED490414*).

Watson, S. (2006). Professional Development School and student teachers: Perceptions of preparedness (*ERIC Document Reproduction Service No. ED490362*).

Watson, S., Smith, Z., & Driver, J. (2006). Alcohol, sex and illegal activities: An analysis of selected facebook photos in fifty states. (*ERIC Document Reproduction Service No. ED493049*).
(44 citations)

Watson, S., Miller, T. L., Driver, J., Rutledge, V., & McAllister, D. (2005). English language learner representation in teacher education textbooks: A null curriculum? *Education, 126*(1), 148 -157.
(44 citations)

Watson, S. & Johnston, L. (2004). Teaching science to the visually impaired. *The Science Teacher, 71*(6), 34-38.
(7 citations)

Watson, S. (2004). Opening the doorway to science for English Language Learners: Practical strategies. *The Science Teacher, 71*(2), 32-35.
(16 citations)

CONFERENCE PRESENTATIONS

International

Castro, L. M.C., Cifuentes, J. P. Q., & **Watson, S.** (2024, October). WIP: Exploring the viability of a bi-directional skill-based mentoring program on communication skills for graduate students in education and computer science students. *Frontiers in Education Conference*, Washington DC.

Becken, G., Koers, G., **Watson, S.,** & Stimers, M. (2024). Game-based learning to promote education for sustainable development: A school festival case study. *International Conference on Sustainable Development*, New York, NY- Hybrid.

Watson, S. & Baker, S. (2022). Science trade books: A content analysis. Paper presented at the *American Educational Research Association*, San Diego, CA.

Williams-Duncan, O., **Watson, S.,** Smith, A. & El Rasheedy, Y. (2021). An overview of phase 3 research about the exploration of the moon and asteroids by secondary students (ExMASS) program. *Joint NASA Exploration Science Forum and European Lunar Symposium*. July 23, 2021. Virtual.

Craig, C., McDonald, D. M., Auzenne-Curl, C., Curtis, G., Davis, T., Divoll, K., Evans, P., Gauna, L., Kiekell, J., Manuel, M., McAlister-Shields, L., Newsum, J., Pohl, B., Turchi, L., **Watson, S.,** & Williams-Duncan, O. (2021, April). Collective and collaborative understanding of leadership within a knowledge community. Paper presented at the *American Educational Research Association*. Virtual.

George, B. & **Watson, S.** (2020). The impact of participating in a STEM academy on girls' STEM self-efficacy. Paper presented at the *American Educational Research Association International Conference*. Virtual.

Watson, S., Cothorn, T. & Peters, M. (2020). School administrators' perceptions of STEM awareness and resources. Paper presented at the *American Educational Research Association International Conference*. Virtual.

Shane, A., **Watson, S.**, Buxner, S. & Bakerman, M. (2018). ExMASS: Four years of authentic scientific research by high school students. *The 2018 NASA Exploration Science Forum, Solar System Exploration Research Virtual Institute*. NASA Ames Research Center, Moffett Field, CA.

Watson, S. (2005). Women scientists. Paper presented at the *American Educational Research Association International Conference*, Montreal, Canada.

National

Watson, S., Quintana-Cifuentes, J., Case-Hanks, A., & Schulte, A. (2023, October). The U.S. landscape of elementary teachers' science course requirements. Paper presented at the *American Association for Teaching and Curriculum* conference, Louisville, KY.

Watson, S., Quintana-Cifuentes, J., Case-Hanks, A., & Schulte, A. (2023, November). Teaching science in the elementary school. Paper presented at the *Midsouth Educational Research Association* conference, Pensacola, FL

Cooper, J. M., McDonald, D., **Watson, S.**, Curtis, G., Baker, S., Gauna, L., Craig, C. J., Williams-Duncan, O., Newsum, J., Phol, B., Keikel, J., Stokes, D., Wandix-White, D. (2023, October). Academic transitions impart scholarly identity shifts through stressors and opportunities for growth. Paper presented at the *American Association for Teaching and Curriculum*. Louisville, KY.

Cooper, J. M., McDonald, D., **Watson, S.**, Curtis, G., Baker, S., Gauna, L., Craig, C. J., Williams-Duncan, O., Newsum, J., Phol, B., Keikel, J., Stokes, D., Wandix-White, D. (2023, October). Invisible colleges: Extra-institutional collaborative wisdom. Paper presented at the *American Association for Teaching and Curriculum*. Louisville, KY.

Williams-Duncan, O. & **Watson, S.** (2022, October). Implementing abductive reasoning on qualitative findings about 2020-2021 Exploration of the Moon and Asteroids by Secondary Students (ExMASS) program participants' email communications. Paper presented at the *American Association for Teaching and Curriculum*, Chicago, IL.

Watson, S. (2022) Assessing culturally responsive pedagogy in "More than an example: Implementing culturally responsive pedagogies in STEM education" Teaching Conference. April 1 2022. Lincoln University, Jefferson City, Missouri. (invited speaker-virtual).

Smith, A., Williams-Duncan, O., **Watson, S.**, & El Rasheedy, Y. (2021, October). Scientist advisors: An overview of research about the Exploration of the Moon and Asteroids by Secondary Students (ExMASS) program. Paper presented at the *American Association for Teaching and Curriculum*, Albuquerque, NM.

Watson, S. & Baker, S. (2021, October). Elementary school library collections: A content analysis of science trade books. Paper presented at the *American Association for Teaching and Curriculum*, Albuquerque, NM.

Williams-Duncan, O., **Watson, S.**, Smith, A., & Rasheedy, Y. (2021, October). Cultivating student engagement in STEM: Phase 3 research exploring scientist advisor and student team relationships in the 2020-2021 Exploration of the Moon and Asteroids by Secondary Students (ExMASS) Program. Paper presented at the *American Association for Teaching and Curriculum*, Albuquerque, NM.

- McDonald, D. M., Craig, C., Pohl, B., Sack, J., **Watson, S.**, Cooper, J., Williams-Duncan, O. & Gauna, L. (2021, October). Muses that amuse: Inspirational stories of teachers' best-loved selves. Paper presented at the *American Association for Teaching and Curriculum*, Albuquerque, NM.
- McDonald, D. M., Craig, C., Pohl, B., Sack, J., **Watson, S.**, Cooper, J., Williams-Duncan, O. & Gauna, L. (2021, October). Crossing disciplines and institutions: Proliferating and pro-liberating possibilities in learning to lead through collaboration. Paper presented at the *American Association for Teaching and Curriculum*, Albuquerque, NM.
- McDonald, D., Craig, C., **Watson, S.**, Auzenne, C., Pohl, B., Williams-Duncan, O., Curtis, G., Divoll, K. (2021, June). Two books, two tales: Looking back at leadership development and moving forward with our best-loved selves. Paper presented at the *Virtual Invisible College*. Virtual.
- Williams-Duncan, O., **Watson, S.**, Smith, A., & El Rasheedy, Y. (2021, October). An overview of phase 3 research about the exploration of the moon and asteroids by secondary students (ExMASS) program. Paper presented at the *NASA Exploration Science Forum & European Lunar Symposium*. Virtual.
- Watson, S.**, Williams-Duncan, O. & Peters, M.L. (2020, July 27-30). School administrators' awareness of parental STEM knowledge, strategies to promote STEM knowledge, and student STEM preparation [Conference Session]. Paper presented at the *National Science Teaching Association STEM20 Conference*. Virtual. <https://www.nsta.org/stem20-virtual-event>
- McDonald, D., Crawford, C., **Watson, S.**, Shulsky, D. & Baker, S. (2019, October) Leadership lessons learned: The liminal space between limitations and victory laps. Paper presented at the *American Association for Teaching and Curriculum Conference*. Birmingham, AL.
- Watson, S.** & Kuhn, S. (2012). Customized web homework: Why? How? To what effect? Advantages? Disadvantages? Paper presented at the *National Council of Teachers of Mathematics Conference*. Hartford, CT.
- Watson, S.** (2012, May). UTeach Co-Directors' Panel Session. *University of TX, UTeach Annual Conference*. Austin, TX.
- Watson, S.** & Kuhn, S. (2011, May). UTeach Engineering – An Integral part of UTeaChattanooga. *University of TX, UTeach Annual Conference*. Austin, TX.
- Watson, S.** & Kuhn, S. (2011, May). Recruitment strategies for UTeach replication sites. *University of TX UTeach Annual Conference*. Austin, TX.
- Watson, S.**, Miller, T., & Carter, P. (2010, September). Teachers' perceptions of effective teaching. Paper presented at the *Ethnographic and Qualitative Research Conference*. Cedarville, OH.
- Watson, S.** (2010). Physics and biology via the Internet: A study of Hiroshima and Nagasaki. Paper presented at the *Society for Information Technology and Teacher Education*. San Diego, CA.
- Watson, S.** & Morris, B.J. (2009). University as Wal Mart: Consumerism in academia. Paper presented at the *Society for Values in Higher Education*. Chicago, IL.
- Watson, S.** (2008). Teaching about Japan: Japan in-service/pre-service teacher module. Paper presented at the *Asian Studies Conference*. Hilton Head Island, SC.

- Watson, S., Rutledge, V. & Johnston, L. (2007).** PDS: A partnership of success. Paper presented at the *Coalition of Urban and Metropolitan Universities Conference*. Towson, MD.
- Watson, S., Rutledge, V. & Johnston, L. (2007).** Perceptions of teacher performance: PDS vs. non-PDS. Paper presented at the *Holmes Conference*. San Antonio, TX.
- Watson, S., Rutledge, V., & Johnston, L. (2006).** Professional Development Schools. Paper presented at the *Teachers for a New Era Conference*. Philadelphia, PA.
- Watson, S. (2005).** Teaching science to students with special needs. Paper presented at the *National Science Teachers Association National Convention*. Dallas, TX.
- Watson, S., Rutledge, V., & Driver, J. (2005).** ESL Summer Institute results. Paper presented at the *Holmes Conference*. Philadelphia, PA.
- Watson, S. & Rutledge, V. (2005).** Urban impact. Paper presented at the *Holmes Conference*. Philadelphia, PA.
- Watson, S. & Rutledge, V. (2004).** The changing landscape of teacher preparation: Exploring the Professional Development School. Paper presented at the *National Science Teachers Association National Conference*. Atlanta, GA.
- Watson, S. (2004).** ESL students and success in science: Teaching practices and strategies. Paper presented at the *National Youth-at-Risk Conference*. Savannah, GA.
- Watson, S., Rutledge, V. & Johnston, L. (2004).** NCATE, NCLB, and PDS: A formula for measuring success. Paper presented at the *Maryland Professional Development School Network's Second National Professional Development School Conference*. Baltimore, MD.
(10 citations)
- Watson, S. & Millican, K. (2001).** Girls just wanna have fun: Motivating girls in science with serious fun. Paper presented at the *JCT Conference on Curriculum Theory and Classroom Practices*, Bergamo Conference Center. Dayton, OH.
- Watson, S. (2000).** Spaces of hope: The work of Bryan Deever. Paper presented at the *JCT Conference on Curriculum Theory and Classroom Practices*, Bergamo Conference Center. Dayton, OH.
- Regional/Multistate
- Watson, S., & Schulte, A. (2023, November).** Elementary teachers' science course requirements in the US. Paper presented at the *Midsouth Educational Research Association*. Pensacola, FL.
- Watson, S., & Fields, V. (2023, November).** The impact of an international interdisciplinary service-learning project on students' attitudes toward community service. Paper presented at the *Midsouth Educational Research Association*. Pensacola, FL.
- Watson, S., Bartsch, R., Kelling, A., Beavers, E., & Shan, G. (2019, April).** Benefits of introspection and self-reflection in a course on effective teaching practices. Paper presented at the *Innovative Teaching and Learning Symposium*, University of Houston. Houston, TX.

Watson, S. (2019, February). Texas school Administrators' perceptions of parental STEM awareness. Paper presented at the *Southeastern Research Association*. San Antonio, TX.

Watson, S., & Weiser, B. (2018, February). A comparison of expert vs. novice delivery of STEAM-based instruction on the academic achievement of kindergarten students. Paper presented at the *Southeastern Educational Research Association*. New Orleans, LA.

Watson, S. (2012). Science, language and power: Describing shifting relationships. Paper presented at the *Science Education at the Crossroads Conference*. Providence, RI.

Watson, S., Miller, T., & Carter, P. (2011). Teacher perceptions of quality instruction: A longitudinal investigation of middle schools within a district. Paper presented at the *Educational Research: Innovations in Pennsylvania, Delaware and New Jersey Conference*. Philadelphia, PA.

Watson, S. (2011). Education to UTeach: A new beginning. Paper presented at the *Science Education at the Crossroads Conference*. San Antonio, TX.

Watson, S., Rutledge, V., & Driver, J. (2004). UTC's ELL Summer Institute. Paper presented at the *Southeast Teachers of English to Students of Other Languages Conference*. Nashville, TN.

Watson, S. (2002). Let's eliminate the stereotypical male scientist: Strategies to motivate girls in science. Paper presented at the *National Science Teachers Association Regional Conference*. Louisville, KY.

Watson, S. & Millican, K. (2001). Fun with physics and physical science. Paper presented at the *National Science Teachers Association Southeastern Area Conference*. Atlanta, GA.

State

Case-Hanks, A. & **Watson, S.** (2023, June). *Natural disaster mitigation and Management: STEM Pathways proposal*. Louisiana Teacher Leader Summit. New Orleans, LA.

Watson, S. & Bell, J. (October 2022). Teaching the visually impaired in a secondary science lab course. Paper presented at the *LA AEMing for Success Conference*, Baton Rouge, LA.

Watson, S., & Cothorn, T. (March 2019). Texas school administrators' perceptions of STEM awareness and resources. Paper presented at the *Greater Houston Area STEM Conference*, University of Houston-Clear Lake. Houston, TX

Watson, S. & Kuhn, S. (2011). UTeaChattanooga. Paper presented at the *Tennessee Mathematical Association of Two-Year Colleges*. Dyersburg State Community College. Dyersburg, TN.

Watson, S. & Johnston, L. (July 2004). Teaching science to students with disabilities: Practical strategies. Paper presented at the *Alabama Department of Education 2004 Mega Conference*. Mobile, AL.

Watson, S. & Johnston, L. (July 2005). Science and special needs students: A winning combination. Paper presented at the *Alabama Department of Education 2005 Megaconference*. Mobile, AL.

Non-refereed Conference Proceedings (UHCL)

Watson, S. (2020). First generation college students and persistence. *First Generation College Student Group at UHCL*. Houston, TX.

Watson, S., Bartsch, R., Kelling, A., Beavers, E., & Shan, G. (2019). ACUE active learning. *UHCL Faculty Development Center Conference*. Houston, TX.

Watson, S. (2018). Problem based learning. *UHCL Faculty Development Center STEM Research Colloquium*. Houston, TX.

Watson, S. (2018). School administrators' perceptions of STEM awareness. *UHCL Faculty Development Conference*. Houston, TX.

Non-refereed Conference Proceedings (ULM)

Watson, S. (2021). APA 7th Edition. *Ed.D. Doctoral Students*

Watson, S. (2022). Grant writing. *School of Education faculty*.

GRANTS (UTC, UHCL, ULM)

ULM Internal

Watson, S., & Case-Hanks, A. (2022). ULM Science and Mathematics Program. University of Louisiana, Board of Regents, Targeted Departmental Enhancement. \$98,000 (not funded).

Watson, S. & Bell, J. (2022). SciMAT Teaching and Learning Lab. University of Louisiana, Board of Regents, Comprehensive Department Enhancement. \$96,000 (not funded).

ULM External

Case-Hanks, A. & **Watson, S.** (2024). National Science Foundation: S-STEM: 1.8M

Watson, S. (2023). National Science Foundation: Improving Undergraduate STEM Education: Directorate for STEM Education. ChangeMaker K-12: A Digital Platform for Supporting Elementary Teacher Candidates in Teaching Engineering and Human-Centered Design \$58,963 - funded: Award Number (FAIN): 2336826.

Case-Hanks, A. & **Watson, S.** (2023). National Science Foundation: S-STEM. 1.3 M. (not funded).

Watson, S., & Case Hanks, A. (2023). National Science Foundation: Improving Undergraduate STEM Education: Education and Human Resources (IUSE: EHR): ULM Pedagogical STEM Education Program (ULM P-STEP). \$326,919.00 (not funded).

Case-Hanks, A. & **Watson, S.** (2022). National Science Foundation: S-STEM: 1.3M (not funded).

Watson, S., & Case Hanks, A. (2021). National Science Foundation: Improving Undergraduate STEM Education: Education and Human Resources (IUSE: EHR): ULM Pedagogical STEM Education Program (ULM P-STEP). \$300,000.00 (not funded).

Watson, S., Case-Hanks, A., & Keith-Vincent, L. (2021). National Science Foundation: Discovery Research PreK-12: CASS-unConference: Conversations Among Science Stakeholders-unConference. \$100,000 (not funded).

UHCL External

Watson, S. & UTeach Institute (2019). *UTeach Replication at UHCL*. The Powell Foundation, \$300,000 (funded).

Watson, S. (2019). *Urban gardening: Texas native prairie grassland* (for Parkwood Elementary School in Deer Park, ISD), \$4,335.77 (funded).

Watson, S. (2018). *Problem based learning in early childhood: Its effects on student learning and engagement*. The Crowder Foundation, \$3,000. (Funding cancelled.)

UTC External

Hays, S., **Watson, S.** & Wigal, C. (2013). *U.S.-Chile IRES: Intraspecific variation and genetic mechanisms of animal sociality*. National Science Foundation, \$249,801 (funded).

Hays, S., **Watson, S.** & Wigal, C. (2012). *The Chile – Chattanooga Connection: Improving STEM Education for K-12 and University Students*. The Community Foundation of Chattanooga, \$15,000 (funded).

Buchanan, S., **Watson, S.**, Wigal, C., & Kuhn, S. (2012). *Examining gendered interactions in STEM*. Crisp, \$10,000 (funded).

Miles, P., Shaw, G. & **Watson, S.** (2012). *The integration of science, education, and religious views with implications for STEM education*. Crisp, \$9,997 (funded).

Watson, S. & Kuhn, S. (2011). *Robert Noyce Scholars*. National Science Foundation, \$1.2 M. (No. DUE-1132284) (funded).

Kuhn, S. & **Watson, S.** (2011). Center for STEM education at UTC. *Congressional Earmark*, \$770,000 (funded).

Watson, S., Kuhn, S., Tennessee Higher Education Commission, Tennessee State Board of Education (2010). *UTeach implementation at UTC*. Race to The Top, \$1.74 M (funded).

Watson, S. & Johnston, L. (2006). *Assistive technology in science*. Tennessee Higher Education Commission, \$64,500.00 (funded).

Watson, S. (2003). *New College Teachers' Workshop travel funds*. Society for Values in Higher Education Annual Fellows Meeting: Farmington, Maine, \$3,000.00 (funded).

SERVICE**Service Within the Institution***University of Louisiana at Monroe*

2024	IRB Board Member
2024	Universities Council on Foreign Relations Workshop, New York, NY
2023-present	PK-16 Advisory Council member
2023-2024	Educator's Rising Conference (Call for Proposals Committee Chair)
2023-present	ULM Research Symposium Judge
2023-present	Social Science Fair Judge
2023-2024	Scholarship Mentor for Dr. Frances Hester (new faculty).
2021-2024	Board Member, ULM Women's Symposium
2021-2023	Dominican Republic Service-Learning Project Leader
2022-present	Ed.D. Application Evaluation Committee
2022-2023	University-wide Tenure and Promotion Committee
2022	Neville High School Summer Camp – Atmospheric
Science Teacher	
2022	Richland Parish Summer Learning Camp planning meeting
2021-present	Member, SOE Assessment Committee
2021-present	Full Graduate Faculty Member
2021	Session Chair for Educators Rising
2021	Session Chair for Greater Houston Area STEM Conference
2021	Taught two two-hour classes at WarhawksU Summer Camp
2022	Educational Leadership Search Committee member
2022	Grant Writing 101 Presentation to SOE Faculty
2021-2022	Scholarship Mentor for Dr. Jeremy Bell (new faculty).

University of Houston-Clear Lake

2019-2020	Chair, COE Scholarly Research Sub-Committee
2018-2020	Member, International Education Awards Committee.
2017-2020	Alternate Member, Academic Honesty Committee.
2020-2021	Faculty Senate (elected)
2020	Faculty Senate: Faculty Governance Ad Hoc Committee
2020	Faculty Senate: University Life Ad Hoc Committee
2020-2021	Director, Kids U Science.
2020-2021	EDLS Doctoral Program Admissions Committee
2019-2020	Chair, COE Research and Scholarly Activities Sub-Committee
2019-2020	Chair, EDCI Doctoral Admissions Committee.
2018	Writer, TCED Program Report.
2018-2019	Chair, CAEP Standard Five Committee.
2019-2020	Member, CAEP Standard Five Committee.
2019	Presenter, UHCL Doctoral Reception.
2017-2020	Chair, UTeach Planning Committee.
2017-2020	Member, EDCI STEM Committee.
2017-2020	Member, Faculty Academy.
2017	Attendee, STEM Retreat.
2017-2018	Liaison, Parkwood Elementary.

2017-2018	Attendee, UTeach Conference.
2017-2020	Attendee, Kickoff Luncheon.
2017-2020	Attendee & Presenter, STEM Luncheon.
2017-2020	Attendee, C&I Potluck Luncheon.
2017-2020	Attendee, End of Semester Luncheon.
2018-2020	Volunteer, Greater Houston Area STEM Conference.
2018	Recruiter, Alief National STEM Day.
2018	Attendee, Grant Proposers' Luncheon.
2018	Attendee, EDCI Doctoral Spring Dinner.
2018-2020	Attendee, Teacher Induction Ceremony.
2018-2020	Attendee, Faculty Awards Ceremony.
2018-2020	Participant, UHCL Open House.
2019	Attendee, UHCL Graduation.
2019	Attendee, Project Wet training.
2019-2020	Proctor, Doctoral Comp. Exams.

University of Tennessee at Chattanooga

2002-2003	Member, UTC Technology Task Force Committee.
2002-2006	Professor-in-Residence, 21 st Century Academy.
2003-2004	Member, New Faculty Search Committee.
2003-2004	Member, Tennessee State Board of Ed. Ad-Hoc Committee on Middle Grades Licensure.
2003-2013	Member, Graduate Faculty.
2003-2004	Professor-in-Residence, Red Bank High School.
2003-2004	Professor-in-Residence, Red Bank Middle School.
2003-2013	Faculty Advisor, NSTA, Student Chapter
2004-2005	Chair, NCATE Standard Five.
2004-2005	Member, UTC Classroom Technology Committee.
2004-2005	Member, UTC Athletics Committee.
2004-2006	Member, NCATE Steering Committee.
2004-2005	Professor-in-Residence, Ooltewah Middle School.
2004-2007	Member, UTC Curriculum Committee.
2005-2006	Professor-in-Residence, Chattanooga School for the Arts and Sciences.
2006-2013	Member, UTC Honors Court.
2006-2007	Chair, New Faculty Search Committee.
2006-2007	Member, UTC Student Conduct Board.
2006-2007	PDS Professor, Brainerd High School/Dalewood Middle School.
2006-2007	Member, UTC Academic Standards Committee.
2006-2007	Member, UTC Conduct Committee.
2006-2010	Member, UTC Graduate Studies Division Research Committee.
2007-2010	PDS Professor, Chattanooga School for the Arts and Sciences.
2007	Attendee, Project Wet Training.
2007	Attendee, Project Wild Training.
2007	Attendee, Tennessee Tech. STEM Meeting.
2008	Chair, NCATE Diversity Standard.
2009	Professor-in-Residence, UTC Challenger Center.
2009	Attendee, Live Text Training, David Lipscomb College.
2009-2013	Member, STEM Working Committee.
2009	Member, UTeach Interview Committee.

2009	Attendee, AIMS Task Force Training.
2009-2019	Member, General Education Restructure Committee.
2009	Participant, Operation Move-In.
2010	Attendee, UTeach Co-Directors Training, UT, Austin.
2010	Attendee, Banner Training, UTC.
2010	Attendee, IRIS Training, UTC.
2010-2013	Chair, UTeach Advisory Council.
2010-2013	Chair, UTeach Steering Committee.
2010-2013	Member, College-wide Task Force Committee.
2010	Attendee, NCATE SPA Training, University of Northern Arizona.
2010	Marshall, UTC Graduation, spring and fall.
2010-2013	Member, Council of Academic Department Heads.
2011	Attendee, NCATE NCTM Training.
2011	Attendee, Undergraduate Research Training, UC, Berkley.
2011	Member, HCDOE/University Round Table, Benwood Foundation.
2011	Attendee, AERA UTeach Research & Vanderbilt Education Reception, New Orleans, LA.
2011	Faculty Sponsor, UC Berkley Undergraduate Research Conference, Berkley, CA.
2011	Attendee, TaskStream Training.
2011	Attendee, AACTE Leadership Training, Seattle, WA.
2011	Member, Volkswagen Interview Team.
2011-2012	Member, Conflict Resolution Committee.
2011-2013	Member, Budget and Economic Status Committee.
2012-2013	Member, Grade Appeals Committee.
2012-1013	Member, Scholarships Committee.
2012	Attendee, SharePoint Training
2012	Grader, CAPS.
2012	Attendee, STAR Conference, San Jose, CA.
2012	Attendee, Gender, Sexual Orientation, and Workplace Issues
2012	Attendee, Google Docs Training
2013	Writer, SPA Report (science), resulted in SPA accreditation.
2013	Presenter, NCATE Poster Session, UTC.

Service to the Profession

University of Louisiana at Monroe

Louisiana Believes Science Collaborative member: 2022-2023.

International Professional Organizations

2024	Universities Council on Foreign Relations Workshop
2023	American Educational Research Association: Reviewed 10 presentation proposals for the Research on Teacher Induction sig.
2022 – 2024	Chair: American Educational Research Association, Research on Teacher Induction SIG (SIG # 149).
2023, October	Reviewed ten presentation proposals for the Research in Teacher Induction sig.
2022, September	American Educational Research Association: Reviewed 10 presentation proposals for the Teacher and Teacher Education sig.

2021, August	American Educational Research Association: Reviewed 11 presentation proposals for the Teacher and Teacher Education sig and 10 for the Mentoring and Mentoring Practices sig.
2021-2023	American Association of Teaching and Curriculum, Curriculum and Teaching Dialogue, Hunkins Distinguished Article Awards Committee
2021-present	Editorial Review Board Member, Association for the Advancement of Computing in Education
2019-present	Reviewer, Association for Science Teacher Education.
2019-present	Editorial Review Board Member for ASTE CITE journal
2019-present	ASTE Equity Committee: appointed member
2019-present	Reviewer, <i>Journal of Research on Technology in Education</i> .
2018-present	Review Board Member, <i>Gender and Education</i> .
2018-present	Member, American Educational Research Association.
2017-present	Reviewer, <i>International Journal for Teaching and Learning in Higher Education</i> .
2017-present	Reviewer, <i>Early Childhood Education</i> .
2017-present	Reviewer, <i>The Science Teacher</i> .
2017-present	Editorial Review Board Member, <i>International Journal of Science Education</i> .
2021-present	Reviewer, <i>The Electronic Journal of Research in Science and Mathematics Education</i> .
2017- present	Member, National Science Teachers Association.
2021-present	Appointed to serve three-year term on Association for Science Teacher Education's (ASTE) equity committee
2021-present	ASTE Awards Committee: elected member.
2020-present	CITE journal science editorial review board member
2021-present	Member, American Association for Teaching and Curriculum

National Professional Organizations

2017-present	Member, National Science Teachers Association.
2021-present	Appointed to serve three-year term on Association for Science Teacher Education's (ASTE) equity committee
2021-2023	ASTE Awards Committee
2021-2023	Member, American Association of Teaching and Curriculum

Regional/State Professional Organizations

2021	Greater Houston Area STEM Conference facilitator
2017-2021	Reviewer and presenter, Southwest Educational Research Association.
2017-2021	Reviewer and presenter, Southwest Educational Research Association.
2017-2021	Session Facilitator, Southwest Educational Research Association.
2018-2019	Reviewer, Texas 21 st Century Community Learning Centers, Cycle 10, Year 1.

University of Houston-Clear Lake

International Professional Organizations

2019-present	Reviewer, Association for Science Teacher Education.
2018-present	Review Board Member, <i>Gender and Education</i> .
2017-present	Reviewer, <i>International Journal for Teaching and Learning in Higher Education</i> .
2017-present	Reviewer, <i>Early Childhood Education</i> .

2017-present Reviewer, *The Science Teacher*.
 2017-present Editorial Review Board Member, *International Journal of Science Education*.
 2001-present Member, American Educational Research Association.

National Professional Organizations

2018-2021 Member, UTeach STEM Educators' Association Executive Board

University of Tennessee at Chattanooga

2006 Attendee, NCATE Standards 1& 2 Training, Washington, DC.
 2006 Attendee, NSTA Conference and NCATE Training,
 Anaheim, CA.
 2010 Reviewer, Robert Noyce Scholarships, Washington DC.

Regional/State Professional Organizations

2017-2021 Reviewer and presenter, Southwest Educational Research Association.
 2017-2021 Session Facilitator, Southwest Educational Research Association.
 2018-2019 Reviewer, Texas 21st Century Community Learning Centers, Cycle 10, Year 1.

University of Tennessee at Chattanooga

2006-2007 Member, Teacher Quality Task Force, TN State Board of Education.
 2006-2007 Science Supervisor, Alternate Certification
 2007 Attendee, Tennessee's Next Generation Tools for Teaching Standards-Based
 Science Training.
 2007 Attendee, Teachers for a New Era Training, Chicago.
 2010 Member, TN STEM Innovation Network.
 2011-2013 Executive Member, STEM Leadership Council, Middle Tennessee State
 University.

Workshops/In-service Presentations

University of Tennessee at Chattanooga

Watson, S. & Kuhn, S. (2012). UTeaChattanooga: Why a replication at UTC? Chattanooga Community Foundation, Chattanooga, TN

Watson, S. (2011). UTeaChattanooga. Chattanooga State Technical College education department, Chattanooga, TN.

Watson, S. (2011). UTeaChattanooga, UTC Math Colloquium, Chattanooga, TN.

Watson, S. (2011). UTeaChattanooga, Chattanooga State Technical College science and mathematics departments, Chattanooga, TN.

Watson, S. (2009). Science teachers achieving real success (STARS) workshop: Teaching science through inquiry, Challenger Center, UTC, Chattanooga, TN.

- Cowan, K. & **Watson, S.** (2008). Differentiating reading across the curriculum. THEC workshop, Nashville, TN.
- Watson, S.** (2008). Diversity and equity in education. ESL Summer Institute, UTC, Chattanooga, TN.
- Watson, S.** (2007). Diversity and equity in education. ESL Summer Institute, UTC, Chattanooga, TN.
- Watson, S.** (2007). Hands-on science for teachers of grades 3-5. Hamilton County Board of Education, Chattanooga State Technical School, Chattanooga, TN.
- Watson, S.** (2007). Multiculturalism and diversity. ESL Summer Institute, UTC, Chattanooga, TN.
- Watson, S.** (2007). Differentiation in science workshop. UTC, Chattanooga, TN.
- Watson, S.** (2007). The special needs of ESL students. Dalewood/Brainerd PDS students, UTC, Chattanooga, TN.
- Watson, S.** (2006). Teaching science to special needs students. Special Education Summer Institute, UTC, Chattanooga, TN.
- Watson, S.** (2006). Diversity and equity in education. ESL Summer Institute, UTC, Chattanooga, TN.
- Watson, S.** (2006). Utilizing dispositions in the secondary classroom: Organization and advanced planning. Student teacher meeting. UTC, Chattanooga, TN.
- Watson, S.** (2006). ESL Issues. Dalewood PDS students, UTC, Chattanooga, TN.
- Watson, S.** (2006). ESL Issues. 21st Century Academy PDS students, UTC, Chattanooga, TN.
- Watson, S.** (2006). Teaching, learning, and technology: Virtual mentoring. UTC faculty presentation, Chattanooga, TN.
- Watson, S.** (2005). Teaching English Language Learners. Normal Park PDS 1 Group, Chattanooga, TN.
- Watson, S.** (2005). Teaching English Language Learners. CSLA PDS 1 Group, Chattanooga, TN.
- Watson, S.** (2005). Classroom management in the secondary school. Student teachers' meeting: University of TN at Chattanooga, Chattanooga, TN.
- Watson, S.** (2003). Science and literacy strategies for ESL teachers. Hamilton County Board of Education Professional Development Workshop, Chattanooga, TN.
- Watson, S.** (2003). ESL and science. UTC, Chattanooga, TN.
- University of Houston-Clear Lake*
- Watson, S.** (2020). First generation college students and perseverance. UHCL, Houston, TX.
- Watson, S.** (2018). Problem-based learning. UHCL Faculty Development Center Conference, UHCL, Houston, TX.

Watson, S. (2019). Writing workshop. TCED 4322 students. UHCL, Houston, TX.

Service to the Community (ULM)

2022	Richland Parrish – attended summer camp planning event, June
2022	LA Environmental Education Commission- Presented new STEM Pathways course to Commission (November)
2022	ULM – Browse on the Bayou – table for SOE
2022	Neville High School Summer Camp-taught 4 days on weather disaster and mitigation (June)
2021	Table at J.S. Clark Elementary School’s Science Day
2020 – Present	US-Based Field Coordinator: Abba’s House Children’s Center, Cienfuegos, Dominican Republic
2021	Keynote Speaker: National Evangelical College Teaching Conference: Santiago, Dominican Republic
2021	Teacher, WarhawksU Summer Camp
2020	Judge, Science and Engineering Fair of Houston

Service to the Community (UHCL)

2019	Teacher, Upward Bound: Marshall High School, Chemistry and Biology.
2019	Judge, Science and Engineering Fair of Houston.
2018	Judge, Brookside Intermediate Science Fair.
2017	Judge, TAFTE Competition. UHCL

PROFESSIONAL AND ACADEMIC MEMBERSHIPS

National Science Teaching Association (NSTA).
 American Educational Research Association (AERA).
 Midsouth Educational Research Association (MSERA).
 Southwestern Educational Research Association (SERA).
 Association for Science Teacher Education (ASTE).
 Association of Teacher Educators (ATE).
 American Association of University Professors (AAUP).
 American Association of Teaching and Curriculum (AATC).
 Midsouth Educational Research Association (MSERA).

JOURNAL REVIEWER SERVICES

Indo-Pacific Journal of Phenomenology
 American Educational Research Association
 Association for Science Teacher Education
 Southwestern Educational Research Association
 Association for Teacher Education
 American Association of Teaching and Curriculum

PROFESSIONAL DEVELOPMENT

NSTA/ASTE: The role of instructional materials in science teacher education. 11/18/22. 1 hour.

AERA: Introduction to qualitative meta-synthesis methods: Achieving STEM equity and inclusion through syntheses. 5/20/21. 3 hours.

Survey Sparrow – training. June 2022. 1 hour.

AERA SIG Officer Training. 5/13/22. 1 hour.

PEERS Data Training. 6/1/22. 2 hours.

STATA Webinar. 5/25/22. 2 hours.

NVIVO Seminar. 6/17/22. 1.5 hours.

CONSULTANT WORK

Louisiana State Board of Education. STEM Pathways-Weather and Disaster Mitigation Course construction, training piloting teachers, 2022.

Louisiana Believes Science Collaborative – member, 2022 – 2023

DISSERTATION SUPERVISION

Doctoral Dissertation Supervision at ULM:

Student Name	Date Started	MP or CM	Dissertation Title
Abbis, Norehan	2024	CM	
Adams, Cieltia	2017	CM	
Barlar, Jonathan	2020	CM	
Beecken, Gesa	2019-2024	CM	<i>A game-based learning festival as a sustainable development tool: A case study. COMPLETE</i>
Bertin, Michelin	2020	CM	
Blackburn, Katera	2023	MP	<i>An exploration of strategies to improve middle school reading motivation.</i>
Broussard, Angela	2020	CM	
Brown, Alexis	2020	CM	<i>Learning through play: Exploring perceptions and experiences of plan and implementation according to Louisiana prekindergarten teachers, their administrators, and the toles they “play” in students’ play.</i>
Brown, Xochitl	2023	CM	
Bryant, Jessica	2024	MP	
Cady, Amy	2018 (withdrawn)	MP	
Cannon, Jessica	2021	CM	<i>Instructional routines to develop number sense in primary learners. Capstone.</i>
Cappo, Julie	2020-2024	MP	<i>How teachers’ content knowledge affects</i>

			<i>instruction in Louisiana Guidebook units. COMPLETE</i>
Cheramie, Stephanie	2021	CM	
Clifton, Jessica	2023	MP	<i>Exploring the impact of theatre arts integration on reading comprehension in fourth-grade students: A qualitative study</i>
Couch, Jason	2022	MP	
Coyle, Eleni	2021 - complete	MP	<i>STEM college and career self-efficacy and persistence of graduates of a multi-year high school science research program: A mixed methods study. COMPLETE</i>
Dalton, Caitlin	2019	MP	<i>Reflective portfolio approach to middle grades writing assessment.</i>
De Avies, Patricia	2024	CM	
DiBenedetto, Adam	2023	MP	
Dominguez, Angela	2024	CM	
Douglas, Leah	2019	CM	
Ellis, Lauren	2019	MP	<i>Understanding Parental Involvement by Examining the Perceptions and Experiences of Parents in K-12 Schools: A Qualitative Study</i>
Ezell, Carla	2024	CM	
Faber, Jill	2021	CM	<i>School counselors' experiences with career counseling curriculum: A phenomenological study</i>
Finnegan De Mol, Malia	2024	CM	
Foster, Angella	2020	CM	
Franklin, Connor	2021 – 2023	MP	<i>An exploration of the perspectives of secondary educators on the importance of teacher attire. COMPLETE</i>
Garcia, Kimberly	2023	MP	
Gardner, Ashlee	2018	CM	
Gates, James	2020	MP	<i>A psychological approach to aesthetics and color theory for curriculum and instruction development.</i>
George, Katherine	2019	CM	
Grace, Sherry	2019-2024	MP	<i>Investigating the relationship between House Bill 4545 and teacher self-efficacy: A case study of Texas middle schools' implementation and rollout. COMPLETE</i>
Green, Christy	2020	CM	
Griffin, Tanya	2024	MP	
Griswald, Elizabeth	2021 - complete	CM	<i>Assessing social-emotional benefits of collaborative consultation in high school students with specific learning disabilities.</i>
Jordan Haas	2023	MP	
Hansen, Sara	2023	MP	
Hattaway, Rachel	2021	CM	<i>The impact of mentorship on novice teacher retention at a rural northeastern Louisiana public high school: A case study</i>
Herren, David	2022	CM	<i>Including the voices of students with disabilities in</i>

			<i>the evaluation of curricular decisions in a secondary resource history classroom.</i>
Hider, Amy Budd	2023	CM	Three paper option.
Jackson, Shannon	2019	MP	<i>Investigating the relationship between house bill 4545 and teacher self-efficacy: A case study of Texas middle schools' implementation and rollout.</i>
Jackson, Tonyaneka	2020-2024	MP	<i>The common in Common Core: An investigation of the parallelism in standards aligned middle school math curricula. COMPLETE</i>
Jantzen, Rebecca	2023	MP	
John-Baptiste, Sandra	2024	CM	
Jones, Ashanti	2023	CM	
Kaplan, Chris	2020	CM	
Kennedy, Taylor	2021	CM	
Lang, Jennifer	2024	CM	
LeJeune, Jeannine	2023	CM	
Lewis, Hannah	2024	CM	
Liao, Fangyi	2019	CM	<i>Discovering the factors that influence international faculty to adopt culturally responsive teaching practices in the U.S. higher education classroom.</i>
Lowery, Caitlin	2021	CM	<i>Faces at the bottom of the gap: Counterstories of Black elementary students and their experiences with White teachers. COMPLETE</i>
Lueders, McKenzie	2020	MP	
Mayrell, Doreen	2023	MP	
McCain, Kelli	2021	MP	
McCarty, Kasha	2021	MP	<i>How having a consistent science curriculum in elementary classrooms affects students' standardized test scores.</i>
McClain, Ashley	2023	MP	
Meyers, Craig	2019-2024	CM	<i>Literacy in a career and technical education high school program. COMPLETE</i>
Morgan, Celeste	2021-2024	MP	<i>Closing the relational gap: Qualitative lessons from Black middle school math students. COMPLETE</i>
Morrison, Bradley	2020	CM	
Napoli, Mary	2023	CM	
O'Neil, Martin	2024	MP	
Popko, Jonathan	2023	CM	
Savage, Jeremy	2024	MP	
Sikes, Jamie	2024	CM	
Simmons, Martha	2022	CM	<i>Incorporating diversity, equity, and inclusion in English language arts novel studies</i>
Smith, Alvetta	2023	CM	
Stanis, Corey	2024	CM	
Underwood, Jennifer	2020	MP	

Venezia, Jessica	2023	CM	
Walton, Jazmine	2019	CM	
Warnke, Loriann	2020	CM	
Weaver, Calvinesha	2021	CM	
Kenya Williams	2023	CM	
Williams, Sha'Myra	2019	MP	
Williams, Shanice	2019-2024	MP	<i>Representation matters: Correlating Black high school students' achievement levels on the Louisiana English I high stakes assessment with their academic self-concept and perceptions of curriculum diversity. COMPLETE</i>
Wiggins, Raynetta	2022	MP	<i>Examining teacher-assigned instructional tasks: A mixed methods case study on the impact of procedural and conceptual tasks in mathematics.</i>
Wynn, Eric	2021- complete	MP	<i>Teachers' perceived effects of implementing aggressive monitoring techniques on high school chemistry students in a post-pandemic educational system. Capstone.</i>
Zachary, Kristine	2019	CM	
Zahler, John	2024	CM	

UHCL Dissertation Committee Member:

Patterson, T. (2021)
Houston, S. (2021)
Smith, A. (2021)
Gruber, S. (2021): *Inquiry-based learning: Perceptions, use and barriers for 6-12 science teachers.*
Gatson, Z. (2020-2024): *Evaluating middle school parents' awareness of STEM careers.*
George, B. T. (2019). *STEM Academy: A case study of girls' STEM self-efficacy.*
Martinez, J. (2020). *Analyzing the characteristics of elementary STEM school-wide programs.*
Molen, A. (2020).
Moya, D. (2020).
Roble, G. (2019).
Shaukat, F. (2020). *The relationship between scientific literacy and science self-efficacy in undergraduates.*
Unruh, J. (2018).
Verhofstad, S. (2020). *Examining the influence of social capital on early college and traditional high school underrepresented students enrolled in college courses.*
Waters, C. (2019).

UHCL Dissertation Co-Chair

Lenamon, M. (2019). *The effect of science course choice on future elementary educators attitudes and beliefs towards the learning of and teaching of science: Information for teacher education programs.*

UTC Dissertation Committee Member

Robbs-Turner, C. (2008).
Romine, X. (2010).

UTC Masters' Capstone Projects Chaired

- Wheeler, E. (2010). *Effectiveness of professional development provided by the UTC Challenger Center to middle grades teachers.*
- Bowen, W. (2005) *Chronic disruptive students in public schools: Forty-five years on downhill slide.*
- Bufkin, A. (2005). *Balanced literacy and state testing.*
- Goad, A. (2005) *Discussion as measure of achievement: The gender variable.*
- Green, M. (2005). *Might students increase their understanding of the poem "Paul Revere's Ride" through role playing or creative dramatics?*
- Hampton, A. (2005). *Integration of software in a beginning Latin class: A case study.*
- Henderson, J. (2005). *Attitudes and knowledge of current events in a social studies classroom.*
- Hicks, M. (2005). *Effects of purposeful writing activities on handwriting.*
- Howard, L. (2005). *Effects of various review methods on test scores of science students.*
- King, J. (2005). *The relationship between student achievement and parental involvement.*
- Littlejohn, W. (2005). *Disciplinary actions before and after dress code enforcement.*
- LoCicero, D. (2005). *American symbols and significant American presidents.*
- McGill, B. (2005). *Does teaching using hands-on activities positively influence middle school girls' attitudes toward physics?*
- Moore, K. (2005). *Evaluating the effect visiting a local artist's studio has on learning and retention rates of high school art students.*
- Pickett, A. (2005). *Computer based programs and the struggling reader: An action-based research project.*
- Pons, R. (2005). *Parental involvement and academic motivation: Educators' perceptions.*
- Raines, K. (2005). *Teachers' opinions of standardized tests.*
- Scates, V. (2005). *Managing student behavior is necessary for academic success.*
- Tuttle, A. (2005). *Using TPR and stories to teach Kindergarteners French.*
- Ward, L. (2005). *Literacy instruction for emergent learners.*
- Whitfield, S. (2005). *Parental involvement and student success in urban middle schools.*

HONORS/AWARDS

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|--------------|--|-------|
| 2024 | Nominated by ULM Provost Mark Arant to attend Universities Council on Foreign Relations Workshop, New York, NY | |
| 2023 | Promoted to Professor and granted tenure, ULM. | |
| 2023-2024 | Senior Researcher: United Space School – Foundation for International Education | Space |
| 2021-2024 | Awarded Chase Professorship in Teacher Education Endowment: ULM. | |
| 2021-present | Full Graduate Faculty Member: ULM | |
| 2020 | Elected to Faculty Senate: UHCL | |
| 2019 | Go to Eleven Award: UHCL Faculty Development Center. | |
| 2018 | Go to Eleven Award, UHCL Faculty Development Center. | |
| 2018 | NASA Emerging Star Award, NASA MUREP MEI. | |
| 2013 | Ten Year Service Award, UTC. | |
| 2012 | Promoted to Professor, UTC. | |
| 2011 | Distinguished Rating on Administrator Goals, UTC College of Arts and Science. | |
| 2011 | Odyssey Supernova Award Nominee, UTC. | |
| 2010 | Exceeds Expectations EDO Rating, UTC. | |
| 2010 | UTC Lady Mocs Basketball Team Academic Coach. | |
| 2010 | Outstanding Teaching/Advising Award, College of Education, UTC. | |

- 2009-2010 Alpha Society President, UTC.
- 2009 Exceeds Expectations EDO Rating, UTC.
- 2008 Five Year Service Award, UTC.
- 2007 Elected to Council of Scholars, UTC.
- 2007 Institutional Representative for American Association of Colleges for Teacher Education (AACTE).
- 2007 Outstanding Research and Scholarship Award, UTC.
- 2007 Received Tenure and Promotion to Associate Professor, UTC.
- 2006 Exceeds Expectations EDO Rating.
- 2006-2008 Alpha Society Vice President, UTC.
- 2005 Exceeds Expectations EDO Rating, UTC.
- 2006 Elected to Alpha Society (UTC).
- 2006 Elizabeth Dalton Award (outstanding accomplishments in all three areas of research, service, and teaching, College of Education, UTC).
- 2005 Teaching, Learning, and Technology Faculty Fellow, UTC.
- 2005 Education About Asia, Faculty Fellow, UTC.
- 2005 Awarded UC Foundation Professorship, UTC.
- 2004 Nominated for Tennessee Science Educator of the Year, Higher Education Division, UTC.
- 2003 Nominated for Tennessee Science Educator of the Year, Higher Education Division, UTC.
- 2002 Wayne County High School Teacher of the Year, runner up.
- 2001 Wayne County High School Teacher of the Year, runner up.