

Amanda Gonczi
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PROFESSIONAL TRAINING

2015-2016 University of Virginia – Postdoctoral Research Fellow, STEM Education
2011-2015 University of Virginia – Ph. D. Science Education
1999-2002 Oklahoma State University – M.S. Curriculum and Instruction
1994-1998 Rutgers University - B.S. Natural Resource Management

PROFESSIONAL AWARDS

Association for Science Teacher Education Award V: Implications of Research for Educational Practice. (2018)

Middle School Educator of the Year for Wakefield School (2008-2009)

RESEARCH SUPPORT

ITEST Strategies: Making Engineering Real (ME Real), National Science Foundation. Award amount: 1,198,260. Award period 9/1/19-8/30/22. Maeng, J. (PI), **Gonczi, A. L. (Co-PI)**.

Lake Superior Stewardship Initiative – Meaningful Watershed Educational Experiences for Rural Schools. National Oceanic and Atmospheric Association. Award amount: \$97,882. Award #: 1807071. Award period: 1/1/2019-6/30/2020. Wescoat, L (PI), **Gonczi, A. L. (Co-PI)**, Chadde, J. (Co-PI)

Track 3: Master Teach Fellowships Track: Michigan Middle School Master Teachers Fellowship Program (MTP), National Science Foundation. Award amount: \$1,759,627. Award period: 2018-2023. Huntoon, J. H. (PI), Ellis, J. (Co-PI), **Gonczi, A. L. (Co-PI)**, Turner, S. (Co-PI).

2018-2019 MiSTEM Advisory Council Grant, Michigan Department of Education. Award amount: \$600,000. Award period: 1/1/2019-12/31/2019. Huntoon, J. H. (PI), Wojick, C (Co-PI), **Gonczi, A. L. (Co-PI)**, Tubman, S. (Co-PI), Oppliger, D. (Co-PI).

Exploring engineering self-efficacy, mindset, and career interest with global design challenges, Curry school of education dean's research and development grant. Award amount: \$10,000. Award period: 2017-2018. Chiu, J. L. (PI), **Gonczi, A. L. (Co-PI)**, Lawrence, W. (Co-PI).

(Pending) DRK-12: Promoting Career Readiness and Science Achievement Through 21st Century Problem Solving. Award amount: \$449,742. Award # 1908092. Award period: 9/1/19-8/30/22. **Gonczi, A.L. (PI)**, Gane, B. (Co-PI)

(Pending) DUE-IUSE: Increase Engagement in Non-traditional Community College Students Through Open-ended Research, National Science Foundation. Award amount: \$600,000. Award # 1915126: Award period: 8/15/2019-8/14/2022. Heldt, C. (PI), **Gonczi, A (Co-PI)**, Minikata, D. (Co-PI)

(Pending) STEMC: Integrating Computational Modeling and Simulation into a Standards-Based Science and Engineering Network for Middle Schools, National Science Foundation. Award #: 1926154. Award amount: \$994,634. Award period: 2018-2021. Wallace, C. (PI), **Gonczi, A. L. (Co-PI)**, Matthys, A. (Co-PI), Ureel, L. (Co-PI), & Ott, L. (Co-PI).

(Pending) Problem-Based Learning as a Context to Develop Middle School Students' Computing Skills and Science Achievement, United States Department of Education. Award amount: \$2,940.839. Award period: 10/1/2019-9/30/2024. **Gonczi, A. L. (PI)**, Huntoon, J. (Co-PI), Wallace, C. (Co-PI), Matthys, A., (Co-PI).

RESEARCH EXPERIENCE (EDUCATION)

Assistant Research Scientist, Michigan Technological University, Houghton, MI (December 2017-present)

- Support STEM education-related grant funding and research initiatives through manuscript preparation and grant writing.
- Oversee research and evaluation efforts on the Michigan Science Teaching and Assessment Reform (Mi-STAR) project.

Research and Evaluation Associate, Michigan Technological University, Houghton, MI (August, 2016- December 2017)

- Analyze student assessment data to inform curriculum development and research related to STEM education.
- Prepare manuscripts for publication in research and practitioner journals.
- Prepare a variety of instruments (interview protocols, surveys, student assessments) for research purposes.

Research Associate, University of Virginia, Charlottesville, VA (August, 2015-August, 2016)

- Implement WISEngineering modules in middle school classrooms and collect related data (survey, student and teacher interview, lesson observation).
- Assist with research- and practitioner-based manuscript preparation in science and engineering education.

Research Graduate Assistant, University of Virginia, Charlottesville, VA (2011-August, 2015)

- Assisted with research and evaluation components of the *Virginia Initiative for Science Teaching and Achievement (VISTA)* grant.
- Wrote annual evaluation reports
- Conducted interviews, observations, and surveys

RESEARCH EXPERIENCE (BIOLOGY)

Field Research Technician, Oklahoma State University, Stillwater, OK (2002)

- Assisted in the capture, identification, marking and release of rodents in one of three ecosystems twice a day.

Herpetology Research Volunteer, Oklahoma State University, Stillwater, OK (2000-2001)

- Assisted in the surgical implantation of radio transmitters into timber rattlesnakes (*Horridus horridus*).
- Used radio telemetry tracking to track snakes on a daily basis.
- Collected vegetative sampling data.

Hawk Watch Intern, Chimney Rock, Woodbridge, NJ (9/97-12/97)

- Identified species of raptors for migration data collection

UNIVERSITY TEACHING EXPERIENCE

Instructor, Michigan Technological University, Houghton, MI (September, 2018-present)

- Teacher Leadership I (ED 5540)
- Inquiry in Science and Mathematics Education (ED 5720)

Research Graduate Assistant, University of Virginia, Charlottesville, VA (2011-August, 2015)

- Assisted in graduate course instruction:
 - Student Teaching Seminar: Fall 2011
 - Teaching Secondary Science I: Fall 2013
 - Teaching Secondary Science II: Spring 2014

University Supervisor, University of Virginia, Charlottesville, VA (2011-2012)

- Supervise, mentor and evaluate pre-service science teachers during student teaching

Biology Lecture Facilitator, Oklahoma State University, Stillwater, OK (2002-2003)

- Assisted professors in presenting undergraduate Biology lesson material

Biology Lab Instructor, Oklahoma State University, Stillwater, OK (2000-2003)

- Taught 3 weekly introductory Biology labs

PROFESSIONAL DEVELOPMENT IMPLEMENTATION

Consultant on VISTA-ELIS Project, University of Virginia, Charlottesville, VA (September, 2016-October, 2018)

- Prepare and implement lessons that model effective technology use for inquiry-based science instruction, support participants' life science content knowledge, model explicit nature of science instruction, demonstrate science instruction using a conceptual change model.

- Support VISTA-ELIS participant inclusion of inquiry, problem-based learning, technology, literacy, and nature of science instruction through classroom-based pedagogical coaching.
- Complete observation reports of VISTA ELIS participants that document aspects of participants' science teaching.

Consultant, Public Education Foundation, Charlottesville, VA (July, 2016)

- Prepare and implement lessons to support elementary science teachers understanding of inquiry-based instruction, performance-based teaching and assessment, and cross-curricular instruction during a weeklong Innovation Institute.
- Support participants' development of inquiry-based, performance-based, and cross-curricular science lessons.
- Support participants' development of performance-based assessment rubrics.

Research Associate, University of Virginia, Charlottesville, VA (June, 2015-August, 2016)

- Prepare and implement lessons that model effective technology use for inquiry-based science instruction, support participants' life science content knowledge, model explicit nature of science instruction, demonstrate science instruction using a conceptual change model.
- Support VISTA ELIS participant inclusion of inquiry, problem-based learning, technology, literacy, and nature of science instruction through classroom-based pedagogical coaching.
- Complete observation reports of VISTA ELIS participants that document aspects of participants' science teaching.
- Model technology and inquiry based instruction using the Predict-Observe-Explain instructional model for participants in the project, *Developing Grades 6-12 Science Teacher-Leaders' Understanding of Electricity, Magnetism and Light Through Modeling and Inquiry Instruction*.

INVITED PRESENTATIONS

Maeng, J. L., & **Gonczi, A. L.** (November, 2018). *Scientific Inquiry For All Students*. A Donna Sterling Institute VAST PreConference Short course for middle school teachers. Williamsburg, VA.

Maeng, J. L., & **Gonczi, A. L.** (July, 2016). *Using Simulations to Teach inquiry and the Nature of Science*. A half-day in-service workshop for middle and high school science teachers. Culpeper, VA

Maeng, J. L., Wheeler, L. B. & **Gonczi, A. L.** (June, 2016). *Using Simulations to Teach inquiry and the Nature of Science*. A presentation for science teachers at the MSiC Summer 2016 K-12 Educator Conference. Midlothian, VA.

Gonczi, A. L. (March, 2016). *Grow Students' Science Mindset with Gizmos®*. A webinar for science teachers hosted by ExploreLearning®.

Gonczi, A. L. (July, 2015). *Integrating Technology into a Problem-Based Learning Unit*. A workshop for science teachers in Albemarle county, Virginia.

Gonczy, A. L. *Inquiry Teaching and Mindset*. (December, 2014). A presentation for science coordinators at the annual Texas Science Education Leadership Meeting. Dallas, TX.

Gonczy, A. L. *Inquiry Teaching and Mindset*. (October, 2014). A presentation for science coordinators at the annual regional National Science Teachers' Association Meeting. Richmond, VA.

Gonczy, A. L. *Inquiry Teaching and Mindset*. (November, 2014). A presentation for science coordinators at the annual regional National Science Teachers' Association Meeting. Orlando, FL.

Gonczy, A. L. *Inquiry Teaching and Mindset*. (November, 2014). A presentation for science coordinators at the annual Texas Science Educators Leadership Association Meeting. Dallas, TX.

Bell, R.L., Maeng, J.L., **Gonczy, A.**, Wheeler, L., & Whitworth, B. (2011). *Simplifying Inquiry Instruction*. A workshop for teachers. Prince William County Public Schools, In-Service Training. Fairfax, VA.

UNPUBLISHED EVALUATION REPORTS

Gonczy, A. L., Bell, R. L., & Maeng, J. L. (August, 2015). *ExploreLearning Gizmos® and VISTA teachers: Analysis of simulation use*. Annual report for Virginia Initiative for Science Teaching and Achievement.

Gonczy, A. L., Bell, R. L., & Maeng, J. L. (June, 2014). *ExploreLearning Gizmos® and VISTA teachers: Analysis of simulation use*. Annual report for Virginia Initiative for Science Teaching and Achievement.

Gonczy, A. L., Bell, R. L., & Maeng, J. L. (June, 2013). *ExploreLearning Gizmos® and VISTA treatment teachers: Analysis of simulation use*. Annual report for Virginia Initiative for Science Teaching and Achievement.

Gonczy, A. L., Bell, R. L., & Maeng, J. L. (July, 2012). *ExploreLearning Gizmos® and VISTA treatment teachers: Analysis of simulation use and implications for professional development*. Annual report for Virginia Initiative for Science Teaching and Achievement.

CURRICULUM DEVELOPMENT

Environmental Studies Content Area Specialist, WorldStrides, Charlottesville, VA (May 2015)

- Created unique assessments customized to align undergraduate fieldwork with national standards.
- Formatted content for adaptability to an online learning management system, leveraging students' digital literacy skills.
- Incorporated a range of differentiated instructional strategies to increase student learning

outcomes across diverse populations.

- Constructed a rubric framework to inform data driven evaluations and inter-rater reliability within a cohort of assessment evaluators.

K-12 TEACHING EXPERIENCE

Upper School Science Teacher, Wakefield School, The Plains, VA (2009-2011)

- Developed/taught Conservation Ecology curriculum for upper school students in partnership with Cheetah Conservation Fund and Smithsonian National Zoo
- Planned/lead annual trip to Cheetah Conservation Fund, Namibia
- Oversaw research and data collection in campus biodiversity plot
- Oversaw fundraising efforts for school cheetah sponsorship program

Middle School Science Teacher, Wakefield School, The Plains, VA (2003-2011)

- Created and taught an integrated science curriculum to all 6th and 7th graders

K-12 ADMINISTRATIVE WORK EXPERIENCE

Science Department Chair, Wakefield School, The Plains, VA (2006-2011)

- Supervised/evaluated the teaching and curriculum of 5 science teachers within the school.
- Interviewed and evaluated new department candidates.
- Coordinated and planned Science Day activities for all middle and upper school students.
- Represented science department interests at school curriculum meetings.

INFORMAL PUBLIC TEACHING EXPERIENCE

Farm Tour Guide, Rutgers University New Brunswick, NJ (2005-2007)

- Educated K-12 students about animal husbandry and ongoing agricultural research at Rutgers University

AWESIM KIDS Coordinator, Lord Stirling Park, Basking Ridge, NJ (1996)

- Helped plan, lead and coordinate activities associated with the environmentally based summer program, AWESIM KIDS, for ages 10-14.

Naturalist Assistant, Lord Stirling Park, Basking Ridge, NJ (1995)

- Assisted naturalists in the organization, development, and research needed for public and camp environmental programs
- Answered questions from the general public concerning the surrounding wildlife and ecology.

PUBLICATIONS

Gonczi, A.L., Goodrich, M., Tubman, S., Wojick, C., Huntoon, J. (Winter, 2019). Preparing for the new M-STEP? Mi-STAR is here to help! MSTa Newsletter.

Maeng, J.L. & **Gonczi, A. L.** (March, 2019). Debunking Misconceptions Related to Plant Energy Production. *The Science Teacher*.

- Navy, S.L., Edmondson, E., Maeng, J.L., **Gonczi, A. L.**, & Mannarino, A. (January, 2019). Building coherence and understanding of the problem-based learning planning process. *Science and Children*, 56(5).
- Edmondson, E., Navy, S.L., Maeng, J.L., **Gonczi, A.**, & Mannarino, A. (2019). Got Energy: Is it enough? *Science and Children*.
- Maeng, J. L., St. Claire, T., Whitworth, B., & **Gonczi, A.L.** (2018). Supporting elementary teachers' enactment of Nature of Science Instruction: A randomized controlled trial. *International Journal of Science Education*. DOI: 10.1080/09500693.2018.1528643
- Whitworth, B. A., Bell, R. L., Maeng, J. L., & **Gonczi, A. L.** (2017). Supporting the supporters: Professional development for science coordinators. *Journal of Science Teacher Education*, 28, 699-723. DOI: 10.1080/1046560X.2017.1404814
- Maeng, J.L., Whitworth, B. A., **Gonczi, A. L.**, Navy, S. L., & Wheeler, L. B. (2017). Elementary science teachers' integration of engineering design into science instruction: results from a randomised controlled trial. *International Journal of Science Education*, DOI: 10.1080/09500693.2017.1340688
- Gonczi, A. L.**, Maeng, J. L., & Bell, R. L. (2017). Elementary teachers' simulation adoption and inquiry-based use following professional development. *Journal of Technology and Teacher Education*, 25(2), 5-34.
- Chiu, J., **Gonczi, A.**, Fu, X., & Burghardt, M. D. (2017). Supporting Informed Engineering Design across Formal and Informal Contexts with WISEngineering. *International Journal Of Engineering Education*, 33(1), 371-381.
- Gonczi, A. L.**, Bergman, B. G., Huntoon, J. E., McIntyre, B., Turner, S., Davis, J., Allen, R.J., & Handler, R. M. (2016). Tools to enhance middle school engineering instruction. *Science Activities: Classroom Projects and Curriculum Ideas*, 54(1) 8-17.
- Gonczi, A. L.**, Chiu, J. L., Maeng, J. L., & Bell, R. L. (2016). Instructional support and implementation structure during elementary science teachers' science education simulation use. *International Journal of Science Education*, DOI: 10.1080/09500693.2016.1217363
- Gonczi, A. L.**, Maeng, J. L., Bell, R. L., & Whitworth, B. A. (2016). Situating computer simulation professional development: Does it promote inquiry-based instructional use? *Computers in the Schools*, DOI:10.1080/07380569.2016.1205351
- Gonczi, A. L.** & Chiu, J. L. (July, 2016). WISEngineering hydroponics: A technology-enhanced life science engineering design unit. *Science Scope* 39(9), 19-25.

Maeng, J.L. & **Gonczi, A.L.** (2015). Developing science teachers' TPCK: Technology integration is only the tip of the iceberg. In Myint Swe Khine, (Ed), *New Directions in Technological and Pedagogical Content Knowledge Research: Multiple Perspectives*. Information Age Publishing: Charlotte, NC.

Wheeler, L.B., Whitworth, B. A., & **Gonczi, A. L.** (December, 2014). Chemistry and engineering design: Integrated science instruction. *The Science Teacher*, 30-36.

REFEREED PRESENTATIONS

Gonczi, A. L. & Maeng, J. L. (Accepted). Plants Do What?! Using a Conceptual Change Framework and Computer Simulation to Understand Respiration. *A paper for the annual meeting of NARST*. (2019, Baltimore, MD)

Maeng, J. L., Edmondson, E., Gonczi, A. L., Wheeler, L. (January, 2019). Problem-Based Learning: A context to support student and teacher learning and integration of literacy, NOS and inquiry instruction. *A paper for the annual meeting of ASTE*, (Savannah, GA)

Maeng, J. L., & **Gonczi, A. L.** (November, 2018). PBL & Engineering Design: A Natural Connection. *A presentation for the annual meeting of the Virginia Association for Science Teaching*. (Williamsburg, VA)

Gonczi, A. L., & Maeng, J. L. (November, 2018). Supporting STEM and Literacy Learning through PBL *A presentation for the annual meeting of the Virginia Association for Science Teaching*. (Williamsburg, VA)

Hungwe, K., **Gonczi, A. L.**, & Huntoon, J. (October, 2018). Middle School Science Teachers' Pre-conceptions of the Next Generation Science Standards – A Baseline Study. A poster presentation for the Midwest Annual Robert Noyce Conference, (St. Louis, MO)

Huntoon, J., Ellis, J., Stockero, S., Hungwe, K., Gonczi, A. (July, 2018) Michigan Middle School Master Teachers Fellowship Program (poster presentation): NSF Noyce Workshop (July 2018, Washington, D.C).

Gonczi, A. L., Bergman, B. G., & Huntoon, J. E. (March, 2018). Give Me That Cookie! Middle School Students' Understanding of and Learning about Competition. *A paper for the annual meeting of NARST*. (2018, Atlanta, GA)

Maeng, J., Bell, R.L., St. Clair, T., **Gonczi, A.L.**, Whitworth, B.A. (January, 2018). Elementary Teachers' Classroom Nature of Science Instruction following PD: Results of a RCT. *A paper for the annual meeting of ASTE*, (January 2018, Baltimore, MD.)

Gonczi, A.L., Bergman, B.G., and Huntoon, J.E. (August, 2017). How Middle School Students Conceptualize and Learn about Competition and Invasive Species. *A paper for the annual Ecological Society of America Conference*. (2017, Portland, Oregon).

- Gonczi, A. L. & Maeng, J. L.** (November, 2017). Using computer simulations to support conceptual change. *A presentation for the annual meeting of the Virginia Association for Science Teaching.* (November 2017, Roanoke, VA)
- Maeng, J. L. & **Gonczi, A. L.** (November, 2017). PBL: Solving real-world problem with a literacy twist. *A presentation for the annual meeting of the Virginia Association for Science Teaching.* (2017, Roanoke, VA)
- Gonczi, A. L., & Chiu, J.L.** (April, 2017). Using visualizations to support understanding and application of thermodynamics concepts in middle school engineering design projects. *A paper for the annual meeting of NARST* (2017, San Antonio, TX)
- Gonczi, A. L.** Bergman, B. G., & Huntoon, J. E. (April, 2017). NGSS aligned problem-based instruction: Helping all students understand ecological principles. *A paper for the annual meeting of NARST* (2017, San Antonio, TX)
- Gonczi, A. L. & Maeng, J. L.** (November, 2016). Using simulations to demystify Earth-Moon-Sun relationships. *A presentation at the annual meeting of the Virginia Association of Science Teachers,* Williamsburg, VA (November, 2016).
- Maeng, J.L., Bell, R.L., Whitworth, B.A., St. Clair, T.L., & **Gonczi, A. L.** (April, 2016). From Professional Development to Practice: Elementary Teachers' Understandings and Enactment of Nature of Science Instruction. *A paper for the annual meeting of NARST* (2016, Baltimore, MD).
- Gonczi, A. L.,** Chiu, J. L., & Maeng, J. L. (April, 2016). Science Teachers' Computer Simulation Use To Support Engineering Design. *A paper presented at the Annual Meeting of American Educational Research Association,* Washington, DC (April, 2016).
- Maeng, J. L., Wheeler, L. B., & **Gonczi, A. L.** (November, 2015). Using Simulations to Teach Nature of Science. *A presentation at the annual meeting of the Virginia Association of Science Teachers,* Chantilly, VA (November, 2015).
- Gonczi, A. L.,** Maeng, J. L., & Bell, R. L. (April, 2015). Science educational computer simulations and elementary science teachers. *A paper for the Annual Meeting of the National Association for Research in Science Teaching,* Chicago, IL (April, 2015).
- Maeng, J. L. & **Gonczi, A. L.** (April, 2015). Elementary teachers' mindsets: Does situated professional development promote growth mindedness? *A paper for the Annual meeting of the National Association of Research in Science Teaching,* Chicago, IL. (April 2015)
- Gonczi, A. L., & Maeng, J. L.** (March, 2015). Science education computer simulations: Innovations for elementary teacher adoption. *A poster presented at the annual Curry Research Conference,* Charlottesville, VA

- Gonczi, A. L.,** Maeng, J. L., & Bell, R. L. (September, 2014). Computer Simulation Professional Development for Elementary Science Teachers: Attention to Teachers' Pedagogical Knowledge Cannot Be Overlooked. *A paper for the MA-ASTE*, Boone, NC.
- Gonczi, A. L.,** Bell, R. L., & Whitworth, B. A. (2014, January). Analysis of two computer simulation professional development models. *A paper presented at the annual meeting of the Association of Science Teacher Education*, San Antonio, TX.
- Gonczi, A. L.,** & Whitworth, B. A. (2014, February). Situating computer simulation professional development. *A poster presented at the annual Curry Research Conference*, Charlottesville, VA.
- Gonczi, A. L.,** Bell, R. L., Maeng, J. L., & Wheeler, L. B. (2013). Analysis of VISTA teachers' computer simulation use. *A paper presented at the annual meeting of the National Association of Research in Science Teaching*, San Juan, PR.
- Gonczi, A. L.,** Whitworth, B. A., Wheeler, L. B., Bell, R. L., & Maeng, J. L. (2013, February). VISTA: Computer simulation use by VISTA treatment teachers. *A poster presented at the Curry Research Conference*, Charlottesville, VA.
- Whitworth, B. A., Maeng, J. L., Bell, R. L., & **Gonczi, A. L.** (2013, January). Science coordinators experience with VISTA professional development. *A paper for the annual meeting of the Association of Science Teacher Education*.
- Gonczi, A. L.,** Bell, R. L., Maeng, J. L., & Wheeler, L. B. (2013, January). *VISTA and Gizmos™: analysis of simulation use to support science instruction*. A paper for the annual meeting of the Association of Science Teacher Education.
- Wheeler, L. B., **Gonczi, A. L.,** Whitworth, B. A., Bell, R. L., & Maeng, J. L. (2013, February). VISTA: Understanding secondary science teachers' practices of the levels of inquiry. *A poster presented at the Curry Research Conference*, Charlottesville, VA.
- Whitworth, B. A., Maeng, J. L., Bell, R. L., & **Gonczi, A. L.** (2013, April). VISTA district science coordinator professional development: A case study. *A paper presented at the annual meeting of the National Association of Research in Science Teaching*, San Juan, PR.
- Whitworth, B. A., Wheeler, L. B., **Gonczi, A. L.,** Bell, R.L., & Maeng, J. L. (2013, February). VISTA: A case study of science coordinators. *A poster presented at the Curry Research Conference*, Charlottesville, VA.
- Gonczi, A. L.,** Leach, J., Bakke, P., McLean, J., Trebels, H., Wang, L., Maeng, J. L., & Bell, R. L. (2012, November). Effective use of computer simulations in biology. *A paper for the Annual Meeting of the Virginia Association of Science Teachers*, Williamsburg, VA.

Gonczi, A., Burns, T., Menard, D., Walker, Mulvey, B. K., & Bell, R. L. (2011, November). Google Earth: A new view of science. *A presentation at the meeting of the Virginia Association of Science Teachers*, Roanoke, VA.

PROFESSIONAL SERVICE

- Co-Editor: *Virginia Journal of Science Education* (VJSE), 2019- present
- Proposal Reviewer - Annual Meeting of the Association for Science Teacher Education, 2013-present.
- Proposal Reviewer - Annual Meeting of the National Association for Research in Science Teaching, 2013- present.
- Manuscript Reviewer- *International Journal of Science Education*, 2011-present.

PROFESSIONAL AFFILIATIONS

- National Science Teachers' Association (NSTA)
- Association for Science Teacher Education (ASTE)
- National Association for Research in Science Teaching (NARST)
- Virginia Association for Science Teaching (VAST)