LINDSAY B. WHEELER, Ph.D.

Assistant Director of STEM Education Initiatives
Center for Teaching Excellence, University of Virginia
P.O. Box 400319
McCormick Rd.
Charlottesville, VA 22904
lsb4u@virginia.edu

EDUCATION

Degrees

2015	University of Virginia – Ph.D., Science Education
2008	University of Virginia - M.T., Secondary Science Education
2006	University of Virginia - M.A., Chemistry
2004	Virginia Commonwealth University - B.S., Chemistry (University Honors)
2004	Virginia Commonwealth University - B.S., Forensic Science (University Honors)

AWARDS

- Robert J. Menges Award for Outstanding Research in Educational Development, Professional & Organizational Development (POD) Network in Higher Education, 2015.
- All University Graduate Teaching Assistant Award for Math, Sciences, and Engineering, University of Virginia, 2014
- Chemistry Department Graduate Teaching Assistant Award, University of Virginia, 2014
- A.L. Bennett Endowed Scholarship, University of Virginia, 2012
- Outstanding Teaching Award, Math and Science Governor's School, 2010 & 2011.
- Odelia Moore Scholarship, University of Virginia, 2008.
- Virginia Space Grant Consortium Fellowship, University of Virginia, 2008.
- American Chemists Outstanding Senior Award, Virginia Commonwealth University, 2004.
- Outstanding Forensic Science Senior Award, Virginia Commonwealth University, 2004.
- Provost Scholarship, Virginia Commonwealth University, 2000-2004.

RESEARCH

Funded Grants & Fellowships

Co-Principal Investigator. Mumba, F., Bychkov, M., Cronmiller, C., Tai, R., & Wheeler, L. ($599,484, **funded**; July 25, 2016-July25, 2019). *Developing teaching assistants? Pedagogical knowledge of inquiry science teaching and instructional leadership skills, and assessing the impact on student learning.* Improving undergraduate STEM Education, National Science Foundation.

Principle Investigator. Wheeler, L.B., Murphy, E.M., Cronmiller, C., & Bychkiv, M. ($31,500, **unfunded**; June 1, 2016-May 31, 2017). *Technology Integration into a Cross-Disciplinary Teaching Course for Science TAs.* Learning Technologies Incubator Grant, University of Virginia.

Co-Principal Investigator. Harman, W. D., Wheeler, L.B., Gonczi , A. L., & Grisham, C. M. ($299,925, **unfunded**; July 1, 2016-July 1, 2018). *Mindsets in undergraduate chemistry laboratories.* Improving undergraduate STEM Education, National Science Foundation.

Principal Investigator. Wheeler L.B., Murphy, E.M., & Bychkov, M.A. ($57,532, **funded**; May 1, 2016-December 31, 2017). *Development and implementation of an interdisciplinary graduate student teaching seminar in science.* Jefferson Trust Grant, University of Virginia.

Principle Investigator. Wheeler, L.B. ($2,420, **funded**; August 25, 2015-May 25, 2016). *Using technology to tailor instruction in a project-based chemical foundations course.* Learning Technologies Incubator Grant, University of Virginia.

Project Evaluator. Maeng, J.L., Venton, J.B., Murphy, E.E., & Edmonson, E.E. ($673, 334, **funded**; March 1, 2015 – September 30, 2018). *VISTA ELIS at UVa.* Virginia Department of Education Math Science Partnership.

Co-Principal Investigator and Project Evaluator. Grisham, C.M., Hall, T.E., Holt, J.J., Mills, A.L., & Wheeler, L.B. ($10,725, **funded**; August 25,2015-May 25, 2016). *Further development of "introduction for coding" courses for undergraduates.* Learning Technologies Incubator Grant, University of Virginia.

Co-Principal Investigator. Grisham C.M. & Wheeler, L.B**.** ($33,500, **funded**; May 1, 2014-August 25, 2015). *Team-based guided inquiry laboratories for introductory chemistry students.* Jefferson Trust Grant, University of Virginia.

Principle Investigator. Wheeler, L.B. & Chiu, J.L. ($1,500, **funded**; August 25, 2014-May 25, 2015).*Undergraduate and graduate teaching assistants' influence on student outcomes in a project-based guided inquiry general chemistry laboratory.* Raven Society Doctoral Fellowship, University of Virginia.

Publications

Whitworth, B.A., & **Wheeler, L.B.** (In review). Engineering or not?

Whitworth, B.A., Maeng, J. L., **Wheeler, L. B**., & Chiu, J. L. (In review). Investigating the role of a district science coordinator.

Wheeler, L.B., Maeng, J.L., & Whitworth, B.A. (In review). Factors influencing changes in Inquiry-based chemistry laboratory teaching assistants' knowledge and beliefs

Wheeler, L.B., Maeng, J.L., Chiu, J.L., & Bell, R.L. (Accepted). Do teaching assistants matter? Investigating relationships between teaching assistants and student outcomes in undergraduate science laboratory classes. *Journal of Research in Science Teaching.*

Palmer, M.P., **Wheeler, L.B**., & Aneece, I.P. (In press). Does the document matter? The role of syllabi in higher education. *Change*

Wheeler, L.B., Chiu, J.L., & Grisham, C.M. (2016). Computational methods in general chemistry: Perceptions of programming, prior experience, and student outcomes. *Journal of College Science Teaching, 45, 3,* 83-91.

Wheeler, L.B., Maeng, J.L., & Whitworth, B.A. (2015). Teaching assistants perceptions of a training to support an inquiry-based general chemistry laboratory course. *Chemical*

Education Research and Practice, 16, 824-842. DOI: 10.1039/c5rp00104h

Wheeler, L.B., Bell, R.L., Whitworth, B.A., & Maeng, J.L. (2015). The science ELF: Assessing the Enquiry Levels Framework as a heuristic for professional development. *International Journal of Science Education, 1,* 55-81. DOI:10.1080/09500693.2014.961182

Wheeler, L.B., Whitworth, B. A., & Gonczi, A.L. (2014). Chemistry and engineering design: Integrated science instruction. *The Science Teacher, 81(9)*, 30-36.

Wheeler, L. B., Maeng, J. L. & Smetana, L.K. (2014). Incorporating argumentation through forensic science. *Science Activities: Classroom Projects and Curriculum Ideas*, *51(3),* 67-77. doi: 10.1080/00368121.2014.907233

Wheeler, L.B. & Bell, R.L. (2012). Open-ended inquiry: Practical ways of implementing the most challenging form of inquiry. *The Science Teacher*, 79(6), 32-39.

Presentations

Wheeler, L.B., & Gonczi, A.L. (submitted). *Ability beliefs of students in an undergraduate chemistry inquiry context: Their role in mediating student attitudes and learning.* A paper for the Annual Meeting of the Association for Science Teacher Education, Des Moines, IA.

Maeng, J.L., Whitworth, B.A., Dubois, S., & **Wheeler, L.B.** (submitted). *Incorporating Engineering Design into Elementary Science Instruction: Frequency, Content, and Process.* A paper for the Annual Meeting of the Association for Science Teacher Education, Des Moines, IA.

St.Claire, T., Maeng, J., **Wheeler, L.**, & Bell, R (submitted). *Mixed-Methods Analysis of Science Teacher Educator Professional Development Practices.* A paper for the Annual Meeting of the Association for Science Teacher Education, Des Moines, IA.

Wheeler, L.B., & Palmer, M. (accepted). *Development and Implementation of Observational Studies to Assess Classroom Practices.* A paper for the Annual POD Network Conference, Louisville, KY (November, 2016).

Wheeler, L.B., & Clark, C. (May, 2016). *Supporting graduate teaching assistants: Making learning about teaching visible.* A presentation for the Annual Innovations in Pedagogy Summit, Charlottesville, VA.

Wheeler, L.B., & Palmer, M. (May, 2016). *Creating syllabi for courses you'll love to teach & students will love to take.* A presentation for the Annual Innovations in Pedagogy Summit, Charlottesville, VA.

Wheeler, L.B., Maeng, J.L., Chiu, J.L., & Bell, R.L. (April, 2016). *Do teaching assistants matter? Assessment of teaching assistants impact on student outcomes in a general chemistry laboratory.* A paper for the Annual Meeting of the National Association for Research in Science Teaching, Baltimore, MD.

Whitworth, B. A., Maeng, J. L., **Wheeler, L. B.,** & Chiu, J. L. (April, 2016). *A foundational study of the*

district science coordinators' role in supporting science instruction. A paper for the Annual meeting of the National Association for Research in Science Teaching, Baltimore, MD.

Wheeler, L.B., Chiu, J.L., Maeng, J.L., & Bell, R.L. (January, 2016). *Inquiry-based professional development for general chemistry laboratory teaching assistants: Changes in teaching assistants' knowledge, beliefs and confidence*. A paper for the Annual Meeting of the Association for Science Teacher Education, Reno, NV.

Palmer, M.P., **Wheeler, L.B.**, & Aneece, I.P. (November, 2015). *Not Your Granddaddy's Syllabus: Investigating Student Perceptions of Course Syllabi.* A paper for the Annual POD Network Conference, San Francisco, CA.

Maeng, J.L., **Wheeler, L.B.**, & Gonczi, A.L. (November, 2015). *Using Simulations and Inquiry to Teach Nature of Science.* A paper for the Annual Meeting of the Virginia Association of Science Teachers, Chantilly, VA.

St.Clair, T.L., Maeng, J.L., Bell, R.L., & **Wheeler, L.B.** (April, 2015). *Exploring Science Education Faculty Attitudes Toward Standardized Testing,* A paper for the Annual Meeting of the National Association for Research in Science Teaching, Chicago, IL.

Wheeler, L.B., Maeng, J.L., & Whitworth, B.A. (April, 2015). *Assessing a Professional Development for Teaching Assistants in a Project-Based Guided Inquiry General Chemistry Lab*. A paper for the Annual Meeting of the National Association for Research in Science Teaching, Chicago, IL.

St.Clair, T.L., Maeng, J.L., Bell, R.L., & **Wheeler, L.B.** (2015, January). *Science Education Faculty Vexations and Ventures with Standardized Testing.* A paper for the Annual Meeting of the Association for Science Teacher Education, Portland, OR.

Whitworth, B.A., Maeng, J.L., **Wheeler, L.B.**, & Chiu, J. L. (2015, January). *Critical Factors Impacting the Role of a District Science Coordinator*. A paper for the Annual Meeting of the Association for Science Teacher Education, Portland, OR.

Maeng, J.L. & **Wheeler, L.B.** (2014, November), *Inquiry Inquiries: Differentiation & Scientific Practices*. A paper for the Annual Meeting of the Virginia Association of Science Teachers, Roanoke, VA.

Wheeler, L.B., Maeng, J.L., & Whitworth, B.A. (2014, July). *Teaching Assistant Role and Perceptions: Assessment of Professional Development to Support Project-Based, Guided Inquiry Approach in General Chemistry Labs*. An oral presentation for the Annual IUPAC International Conference on Chemistry Education, Toronto, Canada.

Whitworth, B. A., Maeng, J. L., **Wheeler, L. B.**, & Chiu, J. L. (2014, April) *Understanding the critical role of a district science coordinator*. A poster presented at the annual meeting of National Association of Research in Science Teaching, Pittsburg, PA.

Wheeler, L.B., Maeng, J.L., & Whitworth, B.A. (2014, March). *Assessing a Professional Development for Teaching Assistants Implementing a Project-Based Guided-Inquiry Approach to General Chemistry Laboratories* . A poster for the Annual Curry Research Conference, Charlottesville, VA.

St. Clair, T., **Wheeler, L.B.,** & Maeng, J.L. (2014, January). *Outcomes of the Science Education Faculty Academy Professional Development.* A paper for the Annual meeting of the Association for Science Teacher Education, San Antonio, TX.

Wheeler, L.B., Barnhill, B., Lariviere, C., & Grisham, C. (2013, November). *Implementation of a Project-Based Guided Inquiry Approach to General Chemistry Labs.* An oral presentation for the Southeast Regional Meeting of the American Chemical Society, Atlanta, GA.

Wheeler, L. B., Whitworth, B.A., Maeng, J.L., & Bell, R.L., (2013, March). *Understanding and scaffolding inquiry: A tale of three teachers.* A poster for the Annual meeting of the National Association of Research in Science Teaching, San Juan, PR.

Gonczi, A. L., Bell, R. L., Maeng, J. L., & **Wheeler, L. B.** (2013, March). *Analysis of instructional computer simulation use by elementary and secondary teachers.* A poster for the Annual Meeting of the National Association of Research in Science Teaching, San Juan, PR.

Wheeler, L. B., Maeng, J.L., Bell, R.L., & Whitworth, B.A. (2013, February). *Secondary science teachers' understanding and practices of the levels of inquiry.* A poster for the Annual Curry Research Conference, Charlottesville, VA.

Wheeler, L.B, Bell, R.L., & Whitworth. B.A. (2013, January). *Three teachers' implementation of inquiry in the secondary science classroom.* A paper for the Annual Meeting of the Association of Science Teacher Educators, Charleston, SC..

Gonczi, A.L., Bell, R.L., Maeng, J.L, & **Wheeler, L.B**. (2013, January). *VISTA and Gizmos™: Analysis of simulation use in science instruction.* A paper for the Annual Meeting of the Association of Science Teacher Educators, Charleston, SC..

Wheeler, L.B., Whitworth, B.A., Barry, L., Chase, A., Tuska, A., Verner, M. Maeng, J.L. & Bell, R.L. (2012, November). *Differentiating inquiry.* A paper for the Annual Meeting of the Virginia Association of Science Teachers, Williamsburg, VA.

Smetana, L.K., Bell, R. L., & **Wheeler, L.B.** (2012, March). *Simulating science in the physical and earth science classroom.* A paper for the Annual meeting of the National Science Teachers Association, Indianapolis, IN.

Germunson, A., **Wheeler, L. B.,** Bell, R.L., Gardner, C., Peairs, J., Newman, M., & Lee-Park, J. (2011, November). *CSI: Crime Scene Inquiry.* A presentation at the Annual Meeting of the Virginia Association of Science Teachers, Roanoke, VA.

Cunningham, J., **Buford, L.**, Justus, C., O'Conner, E., Zafrane, D., Farquhar, H., Smetana, L., & Bell, R.L. (2007, November). *CSI: Collaborative science inquiry.* A presentation at the Annual Meeting of the Virginia Association of Science Teachers, Williamsburg, VA.

Sidorov, V.A. & **Buford, L.,** (2005, November). *Toward the Controlled Fusion of Liposomes.* A poster presentation at the Southeastern Regional Meeting of the American Chemical Society, Research Triangle Park, NC.

Professional Development & Curriculum Development

Wheeler, L.B. (2013-present). *Professional Development for Teaching Assistants Implementing Guided Inquiry in the General Chemistry Laboratory.* An annual professional development for teaching assistants. University of Virginia, Chemistry Department, August.

Wheeler, L.B. & Shorter, C. (2011). *Introducing Middle School Students to Careers in Forensic Science Through After School Investigations.* NEXT After School Program, Rockbridge County High School, February.

Wheeler, L.B. (2008). *Utilizing Crime Scene Investigation to Teach Middle School Students Science.* Summer Enrichment Program (SEP), Curry School of Education, University of Virginia, July.

Workshops, & Invited Lectures

Wheeler, L.B. (2016). *How to Use Questioning Strategies to Improve Discourse in Physics Laboratories.* A invited workshop for the Department of Physics graduate students, University of Virginia, August 19, 2016.

Wheeler, L.B. (2016). *Why is Teaching Important? Impact of Teaching Assistants on Students and Self.* A keynote address for University of Nebraska-Lincoln Teaching Assistant Orientation, August 16, 2016.

Wheeler, L.B. (2016). *A Workshop for Faculty Developers in using COPUS for faculty observations.* An invited workshop for the Center for Faculty Innovation. James Madison University, July 13, 2016.

Wheeler, L.B. (2015). *A Workshop for Course Assistants Learning how to Support Students' Computational Thinking in a Flipped Computer Programming Course.* An invited workshop for University of Virginia Advanced Computing Services and Engagement (UVACSE), August.

Wheeler, L.B. (2015). *Professional Development for University-Level Teaching Assistants and Its Impact on Student Learning.* An invited works-in-progress talk for the Department of Curriculum, Instruction, and Special Education. Curry School of Education, University of Virginia. April 22, 2015.

Wheeler, L.B. (2015). *Teaching Assistants' Influence on Student Learning in a Project-Based Guided Inquiry General Chemistry Laboratory.* An invited research symposium for the Raven Society. University of Virginia. Raven Society, April 8, 2015.

Wheeler, L.B. (2012-2015). *Teaching Scientific Inquiry.* An annual workshop for graduate teaching assistants. University of Virginia, Teaching Resource Center, August.

Wheeler, L. B. (2014). *The State of General Chemistry Labs.* An invited workshop attendee for general chemistry laboratory instructors. McGraw-Hill, May 15, 2014.

Grisham, C.M. & **Wheeler, L.B.** (2013). *Implementing Guided Inquiry in the General Chemistry Labs at UVA.* An invited presenter for the Collaboration and Innovations session, University of Virginia, Chairs & Directors Retreat, August 20, 2013.

Bell, R.L., Maeng, J.L., Gonczi, A., **Wheeler, L.B.,** & Whitworth, B. (2011). *Simplifying Inquiry Instruction.* A workshop for teachers. Prince William County Public Schools, In-Service Training. August 31, 2011.

Wheeler, L.B. (2011). *Teaching Laboratory Classes.* A workshop for graduate teaching assistants. University of Virginia, Teaching Resource Center, August 17, 2011.

Education Research Experience

2015-present *Project Co-Director* – Center for Teaching Excellence STEM Observation Project, University of Virginia
Oversee one post-doctoral student and ten undergraduate students on a multi-year observation project of science, technology, engineering, and mathematics courses across the university.

2014-2015 *Graduate Research Associate* – Teaching Resource Center, University of Virginia
Implement the NUCLEUS project to help faculty redesign STEM courses to a more student-centered approaches and assess the effectiveness of the project.

2011-2015 *Graduate Research Assistant* – Virginia Initiative for Science Teaching and Achievement Grant (VISTA), University of Virginia
Collect and analyze data to evaluate the effectiveness of the 5-year state-wide VISTA i3 project. Train new research assistants on the project. Present and publish research results from this study.

Science Research Experience

Summer 2005 *Research Assistant* - Chemistry Department - University of Virginia
Synthesized Belomycin analogs using conventional synthetic techniques.

Summer 2004 *Research Assistant* - Chemistry Department, Virginia Commonwealth University
Developed a controlled method of liposome fusion.

Summer 2003 *Research Assistant* - Chemistry Department, Virginia Commonwealth University
Synthesized non-heme biomimetic iron enzymes part of the Research Experience for Undergraduates (REU) program.

Spring 2003 *Research Assistant* – Chemistry Department, University of Wales-Swansea
Created a system of identifying unknown paints to be used as a lab practicum

TEACHING

University Teaching Experience

2016-2017 *Instructor* – Chemistry Department, University of Virginia
Instructor for the following undergraduate courses:
CHEM 2559/BIOL 2900 – Teaching Methods for Undergraduate TAs
Instructor for the following graduate courses:
CHEM 7011/BIOL 7110/PHYS 9030 - Teaching Science in Higher Education

2015-2016 *Instructor* – Chemistry Department, University of Virginia
Instructor for the following undergraduate courses:
CHEM 1400 – Foundations of Chemical Principles
Course instructor for ~30 students. Use POGIL instructional method to facilitate deep understanding of foundational topics in chemistry.
CHEM 1411/1421 – Intro to College Chemistry Lab
CHEM 1611/1621 – Intro to College Chemistry for Engineers Lab
Course instructor for ~1400 students. Mentor and supervise a head teaching assistant to help manage the course. Supervise and train ~30 teaching assistants for the course.

2011-2015 *Teaching Assistant Supervisor* – Chemistry Department, University of Virginia
Co-instructor for the following undergraduate courses:
CHEM 1411/1421 – Intro to College Chemistry Lab
CHEM 1611/1621 – Intro to College Chemistry for Engineers Lab
Mentor, supervise and train ~30 General Chemistry Laboratory teaching assistants. Collaborated with instructor to develop and implement a guided inquiry approach to the general chemistry lab course. Guided inquiry curriculum incorporates cooperative planning of labs, online supporting materials, and integration of technology for presenting experimental results. Developed and implemented intensive inquiry-based professional development for teaching assistants.

2011-2013 *University Supervisor* – Curry School of Education, University of Virginia
Mentored, supervised, and evaluated student teachers. Teaching assistant for student teaching seminar. Aided in student teachers' preparing and presenting at state conference.

2011-2013 *Teaching Assistant* – University of Virginia, Curry School of Education
Assisted in instruction for the following graduate courses:
EDIS 4885, Secondary Science Field Placement
EDIS 5050/5051, Secondary Science Methods I and II
EDIS 5875, Secondary Teaching Associateship Seminar
EDIS 5885, Secondary Teaching Associateship

2005-2008 *Teaching Assistant* – University of Virginia, Department of Chemistry
Assisted in instruction for the following undergraduate courses:
CHEM 1411, General Chemistry Lab I
CHEM 1421, General Chemistry Lab II
CHEM 4410, Biological Chemistry

2004-2005 *Teaching Assistant* – Georgia Southern University
Assisted in instruction for the following undergraduate courses:
CHEM 3441, Chemical Kinetics & Thermodynamics
CHEM 3442, Introduction to Quantum Chemistry

Fall 2003 *Teaching Assistant, RAM PAL* – Virginia Commonwealth University
Assisted in instruction for the following undergraduate course:

UNIV 101, Introduction to the University

K-12 Teaching Experience

2008-2011 *Chemistry Teacher* - Rockbridge County High School, Lexington, VA
Planned and taught Chemistry, Chemistry Honors and Advanced Placement Chemistry. Developed and implemented the first AP Chemistry course taught at the high school. Worked with Science Department Chair on grants to obtain technology and equipment for the department.

Fall 2006 *AVID Tutor* – Western Albemarle High School, Charlottesville, VA
Tutored and mentored students in a small group setting through the Advancement Via Individual Determination (AVID) program

SERVICE

University

- Committee Member & Reviewer – *Graduate Teaching Awards*, Graduate School for the Arts & Sciences at UVA, 2016.
- Program Advisor – *Tomorrow's Professor Today Program*, Teaching Resource Center at UVA, 2015-2016
- Committee Member – *Undergraduate Studies Committee,* Chemistry Department at UVA, 2015-2016
- Committee Member – *Assessment Committee*, Chemistry Department at UVA, 2014-2016
- Graduate Student Representative – *Curry Program Review Committee,* Curry School at UVA, 2013-2014
- Academic Affairs Chair – *Ed Council*, Curry School at UVA, 2013-2014.
- Proposal Committee Chair – *Curry Research Conference*, Curry School at UVA, 2013-2014.
- Alumni Representative - *Advisory Committee*, Forensic Science Department at VCU, 2007-2008

Conferences & Organizations

Committees

- Committee Member – *Membership Committee,* Professional & Organizational Development, 2015-2017.
- Graduate Student Representative - *Publications Committee*, Association for Science Teacher Education, 2013
- Committee Member - *Principal's Advisory Committee*, Rockbridge County High School, 2009-2011.
- Committee Member - *Governor's School Selection Committee*, Rockbridge County High School, 2009-2011.
- Committee Member - *Jefferson Scholars Selection Committee*, Rockbridge County High School, 2010.

Conference Organization

- Strand coordinator, *College & University Science Education strand,* Association for Science Teacher Education, 2016
- Presider, *Annual national conference*, Association for Science Teacher Education, 2012-present
- Program Coordinator Co-chair – *Curry Research Conference,* Curry School at UVA, 2012-2013.

- Executive and founding member - *Forensic Science Student Club*, Forensic Science Department at VCU, 2002-2003.

Reviewing & Editing

Editorial Board Member

- Journal of Science Teacher Education, 2016-2019

Proposal Reviewer

- Professional & Organizational Development, 2016-present
- Association for Science Teacher Education, 2013-present
- National Association for Research in Science Teaching, 2013-present
- Curry Research Conference, 2012.

Manuscript Reviews

- Chemical Education Research and Practice, 2015-present
- Education Review International, 2015-present
- Journal of College Science Teaching, 2015-present
- International Journal of Science Education, 2014-present
- Journal of Computing in Higher Education, 2014-present
- Science Activities, 2013-present.
- The Teacher Educator's Journal, 2012-present
- The Science Teacher, 2011-present
- Journal of Virginia Science Education, 2011-present

Textbook Editing & Book Reviews

- Co-editor for *Chemical Principals in the Laboratory 8th ed.*, Chemistry Department at UVA, 2008.
- Chemistry textbook editor for *McGraw-Hill*, 2013.
- Book Reviewer for *American School Board Journal*, 2007.

K-12 Service

- Science Fair Judge - *Virginia Piedmont Regional Science Fair*, 2013.
- Science Fair Judge - *Fairfield Elementary School*, 2009-2011.

Professional Membership

- American Chemical Society
- Association for Science Teacher Education
- National Science Teachers Association
- National Association of Research in Science Teaching
- Professional & Organizational Development Network
- Royal Society of Chemistry
- School of Science and Mathematics Association
- Virginia Association of Science Teachers

PROFESSIONAL EXPERIENCE

2014-2015 *Subject Matter Expert* – LearnSmart Labs for Chemistry, McGraw Hill

Refine the curriculum and provide consulting services as a chemistry and education expert for LearnSmart Labs. Author, review, and revise chemistry assessment questions for online lab simulation program.

Spring 2008 *Freelance Editor*
Correlated physics test bank questions for the ExamView program to North Carolina and Georgia physics state standards

2004-2005 *Laboratory Technician* – Georgia Southern University
Prepared chemicals for General Chemistry, Organic Chemistry, and Biochemistry laboratory classes.