Logan Michael Leslie

Department of Chemistry Phone: 404-202-4655

University of West Georgia Email: lleslie@westga.edu

**Education**:

PhD, Science Education, University of Georgia Dec. 2015

 Thesis: Playing with Science: Exploring Perceptions of Science in Online Affinity Spaces with *Portal 2*

M.S., Chemistry, Stanford University August 2010

 Thesis: Surface Plasmon Resonance and its Applications in Immunoassays

B.S., Biochemistry, University of West Georgia, summa cum laude May 2007

**Teaching Experience:**

Fall 2017 to present: Assistant Professor. University of West Georgia Department of Chemistry

Fall 2015 to Spring 2016: Limited–term Instructor. University of West Georgia Department of Chemistry. General Chemistry I, General Chemistry I Lab, General Chemistry II Lab, Education Research Independent Study.

Spring 2015. Teaching Assistant/Student Teacher Evaluator. Science Education Block 2: Student Teaching for Science Education Majors.

Fall 2013, Spring 2014, Fall 2014. TA/Evaluator. Block 1: Teaching Methods, Curriculum, and Teaching Practicum for Science Education

Summer 2014, Summer 2013. TA. Teaching Strategies for Middle and Secondary School Science Teachers.

Summer 2012. TA. Special Topics: Advanced Pedagogy

Spring 2012, Fall 2012, Spring 2013. TA and program coordinator. Project FOCUS (Foster Our Community’s Understanding of Science.) Service Learning course.

Fall 2011. TA. Project FOCUS Service Learning.

Fall Quarter, 2008. Section Teaching Assistant, General Chemistry, Stanford University.

Spring Quarter, 2008. TA, Writing-Intensive Analytical Chemistry Lab course. Stanford University.

Fall 2007, Winter 2008. Teaching Assistant, General Chemistry POGIL (peer-oriented guided inquiry learning) course. Stanford University.

**Internal grants:**

2015-16 UWG UWise Mini-grant $3500

 “Assessment of writing across the chemistry curriculum”

2019 SRAP *Creating a peer-developed online resource tailored* $1500

*to the needs of UWG students enrolled in introductory chemistry courses*

2020 SRAP *Developing in class interventions in general chemistry* $1500

2021 SRAP *Developing in class interventions in general chemistry* $1050

**Publications:**

(Provisionally accepted with revisions in process) *Employing Peer Review and Revision to Improve Undergraduate Writing Skills in a General Chemistry Lab.* Logan Leslie. *Chemical Educator.*

*The Kinetics of Thermal Stress Induced Denaturation of Aquaporin 0.* John E. Hansen, Logan Leslie, Satyanarayana Swamy-Mruthinti. *Biochemical and Biophysical Communications.* 450 (2014): 1668-1672.

 *Efficient Low-Temperature Oxidation of Carbon-Cluster Anions by SO2,* Andrew J. Leavitt, Richard B. Wyrwas, William T. Wallace, Daniel S. Serrano, Melissa G. Arredondo, Logan M. Leslie, Farooq A. Khan, and Robert L. Whetten, *Journal of Physical Chemistry A*. 109 (2005) 6218-6222.

**Selected Conference Presentations:**

2020 Using scaffolded writing assignments to improve student writing in a gen chem lab course. Logan Leslie. Biennial Conference on Chemical Education. Abstract accepted March 31, 2020. Because of the global COVID-19 pandemic, the 2020 Biennial Conference on Chemical Education was terminated on April 2, 2020, by the Executive Committee of the Division of Chemical Education, American Chemical Society; and, therefore, this presentation could not be given as intended.

Oct 2019. *Improving student writing in a general chemistry laboratory course.* Logan Leslie. Southeastern Association for Science Teacher Education. Carrollton, GA.

May 2019. *Learning to Read Science: Developing Targeted Reading Guides to Increase Student Textbook Usage*. Logan Leslie. UWG Innovations in Pedagogy Conference. Carrollton, GA.

January 2019. *Challenges in Preparing Teachers for Diversity in Today’s Science Classroom: Considering Wicked Problems*. Stacey Britton, Sophia Jeong, Sun Young Jeong, **Logan Leslie,** David Steele and Deborah J.Tippins. ASTE (Association for Science Teacher Education) International Conference. Savannah, GA.

March 2018. *Creating a Polyphonic and Dialogic Process to Address the Issue of Science Mistrust and Misunderstanding.* Sophia Jeong, Gretchen King, David Pauli, Cary Sell, David Steele, Dan Capps, David Jackson, **Logan Leslie**, Steve Oliver, and Deborah Tippins. NARST (National Association for Research in Science Teaching) Annual International Conference. Atlanta, GA.

October 2017. *Using Assemblage Theory to Understand a Writing Intervention in a College General Chemistry Course.* Logan Leslie. SASTE (Southeastern Association for Science Teacher Education) Annual Meeting. Pensacola Beach, FL.

May 2017. *Peer led team learning (PLTL) at UWG.* Logan Leslie. Georgia General Chemistry Network Meeting. Athens, GA.

May 2017. *Developing a Student Journal Reading Group*. Logan Leslie. UWG Innovations in Pedagogy Conference. Carrollton, GA.

May 2016. *QEP: Lessons from the First Year of Implementation.*  Presenters: Logan Leslie, Nadja Williams, Rod McRae, Sal Peralta. UWG Innovations in Pedagogy Conference. Carrollton, GA.

May 2016. *“Let’s all stay calm and do some science [education]”: Guiding your Dissertation Committee toward Acceptance of a Postqualitative Informed Inquiry,* Logan Leslie. Twelfth International Congress of Qualitative Inquiry, Urbana, IL.

April 2016. *Science, Humor, and Dialogue in an Online Gaming Space.* Logan Leslie. NARST (National Association for Research in Science Teaching) International Conference, Baltimore, MD.

May 2015: “*There’s nothing wrong with the physics here”: Discussing Science in Affinity Spaces Related to Video Games,* Logan Leslie. Eleventh International Congress of Qualitative Inquiry, Urbana, IL.

Sept. 2014. *Science as the Punchline: The Use of Scientific Humor in Online Gaming Forums,* SASTE (Southeastern Association of Science Teacher Education) Conference, Savannah, GA.

May 2014. *Vibrant Matter in a Virtual World: How the New Materialisms Inform Video Game Research in Science Education*, Logan Leslie. Tenth International Congress of Qualitative Inquiry, Urbana, IL.

April 2014. *Symposium – Awakening a Dialogue between Science Education and EcoJustice.* Presenters: Logan M. Leslie, Deborah J. Tippins, Pauline W. U. Chinn, Debra Mitchell, Giuliano Reis, NARST (National Association for Research in Science Teaching) International Conference, Pittsburg, PA.

January 2014. Science as a Puzzle: One View of How Video Games Present Science, Logan Leslie. ASTE (Association for Science Teacher Education) International Conference, San Antonio, TX.

October 2013. *The Impact of a Deleuzean Framework on Research into How a Video Game can Influence our Understanding of Science,* Logan Leslie. SASTE Conference, Statesboro, GA.

October 2012. *What is Science? How Portal 2 Presents Science.* Logan Leslie, SASTE Conference, Macon, GA.

**Student Presentations:**

William Helton *Addressing student misconceptions about solutions chemistry through numerical, conceptual and visual questions in an in-class activity.* UWG Scholars’ Day Undergraduate Research Conference 2022

Holly Bearden *Addressing student misconceptions about gas laws and electrochemistry through self-led in class activities*. UWG Scholars’ Day Undergraduate Research Conference 2021.

Ellye Puckett and Kaitlin Watkins *Can* ***In-Class Assignments Assist Students***? UWG Scholars' Day Undergraduate Research Conference 2020. (Postponed due to Covid-19 pandemic)

**Graduate School Honors and Awards:**

Outstanding UGA Teaching Assistant Award, Spring 2013

Eddie Griffin Memorial Award, Outstanding Position Paper, SASTE (Southeastern Association of Science Teacher Education, Spring 2012

Honorable mention, NSF Graduate Research Fellowship, 2008.

**Professional Development and Service:**

Spring 2016-2022 Science Fair Judge. West Georgia Regional Science and Engineering Fair.

Fall 2021-Spring 2022 Co-Chair of the CACSI Teacher Education Committee

Spring 2020 Guest lecture. *Thomas Kuhn and the Development of Scientific Understandings.* The Ohio State University.

2020 Reviewer for *Open Journal of Social Science* (JSS)

Spring 2018 Moderator/reader Georgia Middle School Regional Science Bowl.

Fall 2016- Spring 2020. Lead weekly undergraduate chemistry journal reading group.

Spring 2017. Speaker. ACS Cover Letter and Resumé Workshop.

Spring 2017. Georgia Middle School Regional Science Bowl judge.

Fall 2016. Invited speaker for XIDS 2100: Myth and Religion on topic of the Big Bang and the connection between science and myth.

Spring 2016. Guest, WLBB Community Voice radio program. Presentation on gravitational waves.

November 2015. 2015 Nobel Prizes Public Forum. Presentation on 2015 Nobel Prize in Medicine. University of West Georgia.

Spring 2015. Plant Sciences Head Judge. Clark County Science Fair.

Spring 2013-2014. Judge. Clark County Bridge building competition

Summer 2014 “Utilizing PhET in the classroom.” Presentation and work session given to Clark County School District teachers.

Summer 2013 “UsingPhET simulations in the physical science classroom.” Presentation to professional development workshop for CCSD teachers.

**Professional Organizations:**

Member: American Chemical Society (ACS), National Association for Research in Science Teaching (NARST), Southeastern Association of Science Teacher Education (SASTE)