Eric Loren Johnson

1881 S&S Railroad Bed Road Apartment 1705, Statesboro, GA 30461

(828)-777-6326 | elorenjohnson@gmail.com

EDUCATION

University of Utah, Salt Lake City, UT
Ph.D. in Physical Chemistry **2010-2016**
Advisor: Dr. Michael D. Morse

Centre College, Danville, KY
B.S. In Chemistry with Cum Laude **2006-2010**
Double Major: Spanish

A.C. Reynolds High School, Asheville, NC **2002-2006**

TEACHING EXPERIENCE

Georgia Southern University, Statesboro, GA

Lecturer – Conversations with Professors, Fall 2023 **2023**
Led a discussion with a group of incoming freshmen about key things to know.

Lecturer – Principles of Chemistry II, Summer B 2023 **2023**
Taught one section of online lecture and lab with 43 total students.

Lecturer – Principles of Chemistry II, Spring 2023 **2023**
Taught two sections of lecture and one section of lab with 94 total students.

Lecturer – Chemical Kinetics and Thermodynamics, Spring 2023 **2023**
Taught one section of lecture and lab with 16 total students.

Lecturer – FYE 1220, Fall 2022 **2022**
Co-taught this class with Drs. LoBue, Carroll, and Ramoutar. Taught freshman about important concepts.

Lecturer – Chemical Kinetics and Thermodynamics, Fall 2022 **2022**
Taught one section of lecture and lab with 17 total students.

Lecturer – Principles of Chemistry I, Fall 2022 **2022**
Taught one section of lecture and two sections of lab with 86 total students.

Lecturer – Conversations with Professors, Fall 2022 **2022**
Led a discussion with a group of incoming freshmen about key things to know.

Lecturer – Principles of Chemistry II, Summer Term B 2022 **2022**
Taught one section of online lecture and lab with 46 total students.

Lecturer – Chemical Kinetics and Thermodynamics, Spring 2022 **2022**
Taught one section of lecture and lab with 25 total students.

Lecturer – Principles of Chemistry II, Spring 2022 **2022**
Taught two sections of lecture and one section of lab with 82 total students.

Lecturer – FYE 1220, Fall 2021 **2021**
Co-taught this class with Drs. LoBue, Carroll, and Ramoutar. Taught freshman about important concepts.

Lecturer – Chemical Kinetics and Thermodynamics, Fall 2021 **2021**
Taught one section of lab with 12 total students.

Lecturer – Principles of Chemistry II, Fall 2021 **2021**
Taught two sections of lecture and lab with 84 total students.

Lecturer – Principles of Chemistry II, Summer Term B 2021 **2021**
Taught one section of lab with 24 total students.

Lecturer – Principles of Chemistry II, Summer Term A 2021 **2021**
Taught online class and lab with 43 total students.

Lecturer – Principles of Chemistry II, Spring 2021 **2021**
Taught one section of lecture and two section of lab with 94 total students.

Lecturer – Chemistry & Environment, Spring 2021 **2021**
Taught one section of online lecture and lab with 50 total students.

Lecturer – Principles of Chemistry I Lab, Spring 2021 **2021**
Taught one section of online lab with 49 total students.

Lecturer – Principles of Chemistry II, Fall 2020 **2020**
Taught three sections of lecture and two sections of lab with 140 total students.

Lecturer – Principles of Chemistry I, Fall 2020 **2020**
Taught one section of lecture with 46 total students.

Lecturer – FYE 1220, Fall 2020 **2020**
Co-taught this class with Drs. LoBue, Carroll, and Ramoutar. Taught freshman about important concepts.

Lecturer – Conversations with Professors, Fall 2020 **2020**
Led a discussion with a group of incoming freshmen about key things to know.

Lecturer – Principles of Chemistry II, Summer Term B 2020 **2020**
Taught online class and lab with 36 total students.

Lecturer – Principles of Chemistry I, Spring 2020 **2020**
Taught three sections of lecture and two sections of lab, with 144 total students.

Lecturer – Principles of Chemistry I, Fall 2019 **2019**
Taught three sections of lecture and two sections of lab, with 144 total students.

Lecturer – Comprehensive General Chemistry Lab, Fall 2019 **2019**
Taught one section of lab, with 48 total students.

Lecturer – FYE 1220, Fall 2019 **2019**
Co-taught this class with Drs. LoBue and Carroll. Taught freshman about important concepts.

Lecturer – Principles of Chemistry I, Summer Term B 2019 **2019**
Taught one section of lecture and lab, with 16 total students.

Lecturer – Principles of Chemistry II, Spring 2019 **2019**
Taught one section of lecture and lab, with 48 total students.

Lecturer – Principles of Chemistry I, Spring 2019 **2019**
Taught two sections of lecture and lab, with 86 total students.

Lecturer – Principles of Chemistry I, Fall 2018 **2018**
Taught three sections of lecture and three sections of lab, with 144 total students.

Limited Term Instructor – Principles of Chemistry I, Summer Term B 2018 **2018**
Taught one section of lecture and one section of lab, with 24 total students.

Limited Term Instructor – Principles of Chemistry II, Spring 2018 **2018**
Taught three sections of lecture and three sections of lab, with 132 total students.

Limited Term Instructor – Comprehensive General Chemistry Lab, Fall 2017 **2017**
Taught one section of lab, with 48 total students.

Limited Term Instructor – Principles of Chemistry II, Fall 2017 **2017**
Taught one section of lecture and one section of lab, with 48 total students.

Limited Term Instructor – Principles of Chemistry I, Fall 2017 **2017**
Taught two sections of lecture and one section of lab, with 144 total students.

Limited Term Instructor – Principles of Chemistry I Lab, Summer 2017 **2017**
Taught one section of lab, with 12 total students.

Limited Term Instructor – Comprehensive General Chemistry Lab, Summer 2017 **2017**
Taught one section of lab, with 34 total students.

Limited Term Instructor – Principles of Chemistry I, Spring 2017 **2017**
Taught two sections of lecture and three sections of lab, with 144 total students.

Limited Term Instructor – Survey of Chemistry I, Fall 2016 **2016**
Taught one section of lecture and three sections of lab, with 137 total students.

University of Utah, Salt Lake City, UT

Course Organizer and Teaching Assistant – Prep for General Chemistry, Summer 2014
Instructor: Dr. Jerry Driscoll **2014**
Helped prepared the course so that it was easier to grade online and helped professor with course.

Private Tutor for Quantum Chemistry & Spectroscopy and General Chemistry I, Aug 2014-May 2016 **2014-2016**
Met weekly to cover both lecture topics and assist in understanding the assigned homework.

Teaching Assistant – Quantum Chemistry, Spring 2014
Instructor: Dr. Michael Bartl **2014**
Taught two sections of discussion where I reviewed topics covered in lecture and the homework.

Teaching Assistant – General Chemistry II Lab, Fall 2013
Instructor: Dr. David Thomas **2013**
Guided the students through the methods and techniques used in General Chemistry II Lab.

Teaching Assistant – Quantum Chemistry & Spectroscopy, Fall 2013
Instructor: Dr. Michael D. Morse **2013**
Taught two sections of discussion and hosted review sessions for exams.

Teaching Assistant – General Chemistry I Lab, Summer 2013
Instructor: Dr. David Thomas **2013**
Assisted students in the lab course for General Chemistry I.

Teaching Assistant – General Chemistry I Lab, Spring 2013
Instructor: Dr. David Thomas **2013**
Helped students learn methods and techniques for General Chemistry I. Gained experience in using the MeasureNet system for data acquisition within the laboratory.

Teaching Assistant – Quantum Chemistry & Spectroscopy, Fall 2012
Instructor: Dr. Michael D. Morse **2012**
Taught three sections of discussion and hosted review sessions for exams.

Teaching Assistant – General Chemistry I Lab, Summer 2012

Instructor: Dr. David Thomas **2012**
Guided students through the methods and techniques of General Chemistry I Lab.

Teaching Assistant – General Chemistry II, Spring 2012
Instructor: Dr. Charles Atwood **2012**
Taught two sections of discussion and hosted review sessions for exams.

Teaching Assistant – General Chemistry I Lab, Fall 2011
Instructor: Dr. Laya Kesner **2011**
Assisted students in the lab course for General Chemistry I.

Teaching Assistant – General Chemistry I Lab, Spring 2011
Instructor: Dr. Laya Kesner **2011**
Helped students learn methods and techniques for General Chemistry I.

Teaching Assistant – Quantum Chemistry & Spectroscopy, Spring 2011
Instructor: Dr. Thanh N. Truong **2011**
Taught one section of discussion and hosted review sessions for exams.

Teaching Assistant – General Chemistry I, Fall 2010
Instructor: Dr. Joel S. Miller **2010**
Taught three sections of discussion and hosted review sessions for exams.

Centre College, Danville, KY

Elementary Educator in Costa Rica, Winter 2010
Instructor: Genny Ballard **2010**
As part of a class, I taught a group of elementary aged students in Costa Rica on simple subjects in Spanish.

Lab Setup – General Chemistry I and II, Fall 2009 – Spring 2010
Instructor: Cheryl Mayes **2009**
Prepared the chemicals that were used in General Chemistry I and II Labs and set up waste containers and any materials the students needed.

Teaching Assistant – Organic Chemistry II Lab, Spring 2009 **2009**
Along with the professor, I guided students through the lab course for Organic Chemistry II.

Teaching Assistant – General Chemistry I Lab, Fall 2008 **2008**
Assisted students in the lab course for General Chemistry I.

RELATED EXPERIENCE

Georgia Southern University, Statesboro, GA

Seminar Committee **2023-present**
Helped organize the seminars in the chemistry department.

COSM Early Career Faculty Mentorship Program **2023-2024**
Participated in program designed to help early career faculty.

Governor's Teaching Fellowship Summer Symposium **2023**
Attended a week-long conference at the University of Georgia on STEM related teaching techniques.

General Chemistry Textbook and Homework Committee **2022-present**
Helped decide on a new homework system and textbook for Principles of Chemistry I and II

Faculty Service Committee **2022-present**
Served on committee that awarded service grants to faculty across the university.

College of Science and Mathematics (COSM) Diversity, Inclusion, and Excellence Collaborative **2022-present**
Worked on a variety of DEI issues with other faculty, such as DFW rates.

Workload Committee **2022-present**
Served on committee to create workload policy for department.

Georgia Southern Scholarship of Teaching and Learning (SoTL) Mentor Program **2021-2022**
Participated in program that taught me how to perform SoTL research and mentored me in developing a SOTL project.

Visiting Faculty Search Committee **2021**
Served on committee that hired a visiting faculty member.

Eagle Preview Committee **2021-present**
Helped with Eagle Preview and interacted with potential freshmen.

Faculty Senate **2021-present**
Served as an alternate for Faculty Senate

National Science Bowl Competition **2021-2022**
Served as a scorekeeper, timekeeper, and other jobs for NCSB.

Medical Dental Review Board **2021**
Participated in a series of mock interviews with prospective medical students.

Lab Advisory Board Member **2019-present**
Regularly attended meetings where the FYE and RLC associated with the Lab Living Learning Community were discussed.

Faculty Learning Community on Scholarship of Teaching and Learning (SoTL) **2019-2020**
Workshop led by Drs. Diana Botnaru and Shainaz Landge on how to do SoTL research.

Southeastern Society of Toxicology Conference Organizer **2019-2020**
Helped Dr. Eric Gato organize the SESOT conference that was held virtually.

Computational Chemistry for Chemistry Educators Workshop **2019**
Attended workshop on how to use WebMO.

Science Olympiad **2019-2022**
Developed and ran an Experimental Design test for a group of middle school students.

Faculty Learning Community on Small Teaching Changes **2018-2019**
Workshop led by Dr. Shainaz Landge on teaching techniques with high impact but low preparation time.

CHEM 1211/1212 Assessment Committee **2018-2019**
Helped revise Principles of Chemistry I final exam to reflect new curriculum.

Statesboro Campus General Chemistry Committee **2018**
Helped decide on a new textbook and homework system for Principles of Chemistry I and II.

Fall STEM Field Experience Volunteer **2017**
Performed a series of demos for a group of high school students interested in STEM.

Safety Committee Member **2017-2022**
Helped out with inspections of the labs and made sure they were compliant with OSHA and EHS.

CEMITURE Volunteer **2017-present**
I helped with the REU program at Georgia Southern by judging students' research presentations and papers and made presentation on time management.

SAACS Faculty Advisor **2016-present**

Helped GSU chapter of ACS with demos and helped with new safety video for general chemistry labs.

Research Collaborator **2016**
Collaborated with Ryan Fortenberry at Georgia Southern and Lai-Sheng Wang at Brown University on calculations on CP and C_2P

University of Utah, Salt Lake City, UT

Chemical Education Journal Club **2016**
Met weekly to discuss journal articles pertaining to chemical education

Graduate Research Assistant **2010 – 2016**
Studying resonant two-photon ionization spectroscopy of transition metal containing molecules including NiCCH, OsSi, VC, VS, and VN.

University of North Carolina at Asheville, Asheville, NC

Undergraduate Reseacher **2009**
Worked with iron and yttrium garnets and studied them using Mossbauer spectroscopy.

PUBLICATIONS, PAPERS, AND PRESENTATIONS

Extra Credit Quizzes as a Teaching Tool in General Chemistry. Poster presented by Dr. Eric Johnson at Scholarship of Teaching and Learning (SoTL) Commons, Savannah, GA. **2023**

Implementation of Pop Quizzes as an Inclusive Teaching Tool in General Chemistry. Talk given by Dr. Eric Johnson at Biennial Conference on Chemical Education (BCCE), West Lafayette, IN. **2022**

Relationship of Study Habits to Deep and Surface Learning as Measured by the M-ASSIST (Modified Approaches and Study Skills Inventory). Poster presented by Ms. Jessica Orvis and Dr. Eric Johnson at BCCE, West Lafayette, IN. **2022**

Implementation of Pop Quizzes as an Inclusive Teaching Tool in General Chemistry. Poster presented by Dr. Eric Johnson at SoTL Commons, Savannah, GA. **2022**

Relationship of Study Habits to Deep and Surface Learning as Measured by the M-ASSIST (Modified Approaches and Study Skills Inventory). Poster presented by Ms. Jessica Orvis and Dr. Eric Johnson at SoTL Commons, Savannah, GA. **2022**

Predissociation Measurements of Bond Dissociation Energies. Research presented by Dr. Michael Morse at International Conference of Chemical Bonding, Kauai, HI. **2018**

A High-Resolution Photoelectron Imaging and Theoretical Study of CP^- and C_2P^-.
Journal of Chemical Physics, 148(4), 044301/1-044301/9. **2017**

Bond dissociation energies of TiSi, ZrSi, HfSi, VSi, NbSi, and TaSi.
Journal of Chemical Physics, 147(8), 084301/1-084301/8. **2017**

Bond dissociation energies of diatomic transition metal selenides: TiSe, ZrSe, HfSe, VSe, NbSe, and TaSe.
Journal of Chemical Physics, 145(21), 214308/1-214308/10. **2016**

Predissociation measurements of bond dissociation energies: VC, VN, and VS.
Journal of Chemical Physics, 144(23), 234306/1-234306/9. **2016**

Resonant two-photon ionization spectroscopy of jet-cooled OsSi.
Journal of Chemical Physics, 143(10), 104303/1-104303/12. **2015**

The $\tilde{A}\,^2\Delta_{5/2}$-$X\,^2\Delta_{5/2}$ electronic band system of nickel acetylide, NiCCH.

Molecular Physics, 113(15-16), 2255-2266.

2014

Synthesis and analysis of yttrium iron garnets, europium yttrium iron garnets, and europium iron garnets. Centre Science Journal

2010

AWARDS AND CERTIFICATES

College of Science and Mathematics Award for Excellence in Collaboration for Lab LLC **2023**

Governor's Teaching Fellowship **2023**

Association of College and University Educators Certificate in Effective College Instruction **2023**

College of Science and Mathematics Award for Excellence in Teaching (Nominated) **2022**

VOLUNTEERING

Salt Lake Valley Science and Engineering Fair (SLVSEF) – Judge for the Secondary Division. **2015**
Utah Science Olympiad – Assistant in Analytical Chemistry event. **2014**
Salt Lake Valley Science and Engineering Fair (SLVSEF) – Judge for the Secondary Division. **2014**