
EDUCATION

University of South Carolina, Columbia, SC

Ph.D. Chemistry (Analytical)

2012

Research Advisor: Dr. Scott Goode

Research Areas: Atomic spectroscopy including laser induced breakdown spectroscopy, flame atomic absorption/emission spectroscopy and inductively coupled plasma-atomic emission spectroscopy

Training of undergraduate and graduate researchers and supervision of undergraduate and graduate research projects

University of South Carolina at Aiken, Aiken, SC

B.S. in Chemistry Magna Cum Laude

2004

Advisor: Dr. Jack Goldsmith

Senior Research Advisor: Dr. Monty Fetterolf

Senior Research Thesis: "Adsorption of Dyes onto Titania: Screening for Candidate Dyes"

PROFESSIONAL/TEACHING EXPERIENCE

University of South Carolina, Columbia, SC

Senior Instructor/General Chemistry Lab Coordinator – Responsible for teaching general chemistry courses and supervision of the general chemistry labs (~4000 students per academic year), nursing chemistry labs, maintain chemical stockroom, training and supervising graduate instructional assistants and undergraduate teaching assistants, master scheduling, LEAD certified

2018 – current

Instructor/General Chemistry Lab Coordinator – Responsible for teaching general chemistry courses and supervision of the general chemistry labs (~4000 students per academic year), nursing chemistry labs, maintain chemical stockroom, training and supervising graduate instructional assistants and undergraduate teaching assistants, master scheduling, LEAD certified

2011 – 2018

Lecturer – Taught the General Chemistry portion of an MCAT review course for the Pre-Professional Advisement Department

2011

Graduate Instructional Assistant – to Professors Lukasz Lebioda and Scott Goode in General Chemistry I, Professors Mike Dukes and Scott Goode in General Chemistry II, Professors Scott Goode and Tim Shaw in Quantitative Analysis. Collaborated on curriculum and exam development, taught labs and recitations, met with students upon request, and graded all written work, including final exam papers.

2004 – 2011

University of South Carolina at Aiken, Aiken, SC

Lecturer – Chemistry 112

2011

Developed syllabus and overall course structure, taught lecture and weekly lab practicum, and administered all grades

Lecturer – Chemistry 111

2007-2010

Developed syllabus and overall course structure, taught lecture and weekly lab practicum, and administered all grades

Lecturer – Chemistry 101

2008

Developed syllabus and overall course structure, taught lecture and weekly lab practicum, and administered all grades.

Teaching Assistant – Chemistry 101 lab

2004

AWARDS AND RECOGNITION

- Garnet Apple Award for Teaching Innovation 2022
 - USC College of Arts and Sciences Undergraduate Teaching Award 2018
 - Student Disability Services Two Thumbs Up Award 2018, 2019, 2020-2021
 - Dodie Anderson Academic Enrichment Center Faculty Appreciation 2018
 - Dodie Anderson Academic Enrichment Center Faculty Guest Coach Recognition 2016, 2017
 - Student Disability Services Two Thumbs Up Award 2016, 2018, 2019
 - Division of Student Affairs and Academic Support Faculty Recognition 2015
 - Dodie Anderson Academic Enrichment Center Faculty Recognition 2014, 2016-2017
 - USC Outstanding Graduate Teaching Assistant Award 2010
 - Multiple Bouknight Teaching Awards, University of South Carolina 2005 – 2011
 - Two-time Super Teaching Assistant Award, University of South Carolina 2005, 2006
 - Senior Chemistry Student of the Year, USC-Aiken 2004
 - DSM Chemicals North America Scholarship, USC-Aiken 2003, 2004
 - Academic Scholarship, USC-Aiken 2003, 2004
 - SCUREF Fellowship at Savannah River Site 2003, 2004
 - CRC Freshman Chemistry Student of the Year Award, USC-Aiken 2001 – 2002
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RELATED EXPERIENCE

Savannah River National Laboratory

SCUREF Fellow

Mentors: David Best and Dr. David Peeler

Development of ComPro database for glass durability studies, installation of Cold-Vapor Atomic Absorption Spectrophotometer for Mercury analysis and Ion Chromatograph instruments including writing standard operating procedures and development of quality assurance protocol for new analytical lab

PUBLICATIONS AND PRESENTATIONS

1. **Taylor-Perry** (2022, QDE Press) Chemistry in Practice I: CHEM 111L Lab Manual
2. **Taylor-Perry** (2022, QDE Press) Chemistry in Practice II: CHEM 112L Lab Manual
3. **Taylor-Perry** (2018, QDE Press) CHEM 102 Laboratory Manual
4. Reger, Freeman and **Taylor-Perry** (2018, QDE Press) CHEM 111L & 112L Laboratory Manual
5. Reger, Goode, Freeman and **Taylor-Perry** (2018, QDE Press) CHEM 111 Lecture Notes
6. Freeman and **Taylor-Perry** (2017, QDE Press) A Workbook Approach to Understanding Chemistry
7. Freeman and **Taylor-Perry** (2016, QDE Press) Chemistry 102 Lecture Notes, Laboratory Manual and Homework
8. Freeman, Reger, Goode and **Taylor-Perry** (2016, QDE Press) CHEM 112 Lecture Notes and Lab Manual
9. Reger, Goode, Freeman and **Taylor-Perry** (2016, QDE Press) CHEM 111 Lecture Notes and Lab Manual
10. Invited Panelist, University of South Carolina, Center for Teaching Excellence, Coordinators of Large Undergraduate Courses – Community of Practice, 2017
11. "Laser-induced breakdown spectrometry to determine chromium in aqueous solutions by deposition on solid surfaces" **Amy Taylor-Perry** and Scott R. Goode. Poster presented at the Winter Conference on Plasma Spectrochemistry, Fort Myers, FL, 2010
12. "Laser Induced Breakdown Spectroscopy of Aqueous Solutions" **Amy Taylor-Perry**, Scott R. Goode, Shana Williams and Christopher Dockery. Poster presented at the Winter Conference on Plasma Spectrochemistry, Temecula, CA, 2008
13. "A Critical Comparison of Aqueous Sampling Methods in Laser Induced Breakdown Spectroscopy" **Amy Taylor-Perry**. Poster presented at the Southeastern Regional Meeting of the American Chemical Society, Augusta, GA, 2006
14. **Taylor**, Edwards and Peeler (2005) "The SRNL Glass Composition-Properties (ComPro) Database"
15. Snyder, Edwards, George, **Taylor** and Peeler (2004) "Data Qualification Report: SRNL Glass Composition-Properties (ComPro) Database"
16. George, Peeler, Snyder, Edwards and **Taylor** (2004) "The Users Guide for the ComPro Database"
17. **Taylor**, Edwards, George, Snyder and Peeler (2004) "The SRNL Glass Composition-Properties (ComPro) Database"
18. Peeler, Edwards and **Taylor** (2004) "The Impact of the Proposed ΔG_p Limits on Glass Formulation Efforts: Part II. Experimental Results"
19. Peeler, Edwards and **Taylor** (2004) "The Impact of the Proposed ΔG_p Limits on Glass Formulation Efforts: Part I. Model-Based Assessments"