

Dr. Kerri Shelton Taylor, Ph.D.

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CAREER OBJECTIVE

To execute challenging and rewarding research in the field of biomedical, synthetic and medicinal organic chemistry. Focused and skilled organic chemist with a strong background in synthetic, medicinal chemistry. Adept at working with heterocycles and polymeric materials.

SUMMARY OF ACHIEVEMENTS

- Nominated for 2025 Presidential Awards for Excellence in Science, Mathematics and Engineering Mentoring, Columbus State University
- Nominated for 2024 Felton Jenkins, Jr. Hall of Fame Faculty Awards, Columbus State University
- Awarded the 2024 Faculty Teaching Excellence Award, Columbus State University
- Awarded the 2024 Educator of the Year Award, Columbus State University, Spring 2024
- Awarded the 2024 ACS Division of Organic Chemistry Summer Undergraduate Research Fellowship (SURF)
- Awarded the 2023 Faculty Research and Scholarship Award, Columbus State University
- Awarded the 2023 Governors Teaching Fellow, Columbus State University
- Nominated for 2023 Rising Star Award, ACS Women Chemists Committee, Fall 2022
- Attended the National Computational Science Institute (NCSI): Computational Chemistry for Chemistry Educators (CCCE) workshop, June 2022
- Published 11 peer-reviewed scientific articles, chapter, and creative endeavors
- Presented at >55 local, regional, and national scientific conferences
- Nominated for Tower Day Faculty Mentorship in Research and Creative Endeavors, Columbus State University, Spring 2022
- Served as member on Chemistry Advisory Board, Pearson, 2022 – 2023
- Finalist for the 2022 Educator of the Year Award, Columbus State University
- Served as a Research Mentor to Louis Stokes Alliances for Minority Participation (LSAMP) – Southwest Georgia Alliance Scholars and Associates, 2019 - present
- Awarded Young Chemist Committee (YCC) Leadership Development Award, ACS, 2021
- Awarded Buchi 2020 Scholar Award, Columbus State University, Summer 2020
- Awarded Outstanding Faculty/Staff Award, Columbus State University, Spring 2020
- Awarded 11 Faculty Development University Research Grants, Columbus State University, 2016-2019
- Awarded 6 Educational grants including Center for Experiential Learning, Interdisciplinary and Mini-STEM Grant, 2016-present
- Nominated for Tower Day Faculty Mentorship in Research and Creative Endeavors, Columbus State University, Spring 2020
- Awarded Mentorship of a Goldwater Scholar Award, Columbus State University, Spring 2019
- Awarded 2018-2019 Inaugural Honors Faculty Fellow Columbus State University, Spring 2018
- Awarded Outstanding Professional Award for teaching skills in CHEM 3111 Fall 2018
- Awarded National Society Leadership and Success Teaching Award, Columbus State University, 2018
- Mentored 21 undergraduate students, 1 post-bachelorette and 2 graduate students
- Obtained research experience in a variety of academic environments, including synthetic organic chemistry, medicinal chemistry, and material science
- Synthesized a wide range of organic molecules for use in organic devices, metal-organic complexes, anti-tumor agents and small molecule exfoliants
- Developed a series of *N,N'*-bis(arylmethyl)imidazolium and benzimidazolium salt analogues for elucidating the structure function relationship of potential anti-cancer pharmaceuticals
- Optimized the synthesis of a select number of silver carbene complexes for use as anti-microbial agents
- Synthesized n-type heteroacene semiconductor materials through a number of synthetic pathways.

EDUCATION

Certificate of Christian Leadership , Highlands College Leadership Institute	2023-2025
Certificate of Digital Photography , Columbus State University	2019
Doctorate of Philosophy in chemistry, The University of Akron	2011-2016

Research Adviser: **Dr. Wiley J. Youngs**

Thesis: Rational Design and anti-proliferative activity of substituted *N,N'*-bis(arylmethyl)imidazolium salts as varied therapeutics

Master of Science in chemistry, The University of Kentucky

2008-2011

Research Adviser: **Dr. John E. Anthony**

Thesis: New Photovoltaic Acceptors: Synthesis and Characterization of Functionalized C-fused Antradiithiophenes Quinones

Bachelors of Arts in chemistry, Miami University

2004-2008

PROFESSIONAL/RESEARCH EXPERIENCE

COLUMBUS STATE UNIVERSITY – Columbus, GA

Academic Affairs/Provost Office

Tower Day Coordinator – Dr. Alicia Bryan

Aug 2023 – present

- assisting with event logistics, facilitating presentations, and helping create an inclusive space for students and faculty across all disciplines to present and discuss their research, scholarship, and artistic work.

Department of Chemistry

Associate Professor (tenured in 2021)

Aug 2016 – present

- Develop a series of experiments to assist the Georgia Bureau of Investigation (GBI) to divide a fingerprint on a glass bottle for dual analysis. Help understand how to “preserve” the composition of the fingerprint so it can be studied for toxicology purposes (chemical studies) and arson (heat and combustion). Variables like temperature, type of bottle, and time will be tested to see how the fingerprints composition changes.
- Design and implement of audible modules to promote chemistry learning for visually impaired students undergraduate chemistry lecture and lab courses in general chemistry, organic chemistry and biochemistry
- Generate a variety of imidazolium and triazolium salts for use as potential anti-tumor pharmaceuticals. Evaluated structure activity relationship of substituted *N,N'*-bis(arylmethyl)triazolium and benzimidazolium salts tested against breast and prostate cell lines. Enhancement of the imidazolium and triazolium salts’ anti-proliferative activities were achieved through substituent variations in the different series of the azolium salts.
- Generate a variety of benzothiazolium salts for use as potential pharmaceuticals as alternatives for ALS. Evaluated structure activity relationship of substituted N-arylmethylbenzothiazolium salts tested against HEK, U2OS and SH-SY5Y cell lines that express TDP-43 cell lines.
- Synthesize and characterize quinone-based *N,N'*-bis-substituted imidazolium salts to test for anti-tumor activities against select breast and prostate cancer cell lines
- Analyze and identify of the chemical components in aging paint of a 20-acre, exterior art exhibit which will be documented to help Pasaquan Preservation Society to properly identify, curate, and restore the exhibit for an extended period of time.
- Analyze and identify of the chemical components and hardware in three early 20th century physicians’ kits that were documented into chemical report to help museum properly identify, curate, and store the medical collections for an extended period of time. Preserving these kits will allow for the evaluation of the evolution of medicine.
- Design and teach undergraduate chemistry lecture and lab courses in general chemistry, organic chemistry and biochemistry
- Consistently involved in innovative curriculum enhancement, curriculum development, professional service, grant writing, scholarly activities, community service and biomedical and chemical research.

CENGAGE

Organic Chemistry Advisory Board – Mrs. Nicole Hurst

April 2025 – Sept 2025

Organic Chemistry Advisory Board – Mrs. Nicole Hurst

Oct 2024 – March 2025

- Participate in up to 5-10 hours of work with other Advisory Board members and Cengage team
- Be reasonably available and responsive, through email and phone, to advise on product development, messaging, and enhancements.
- Hold all Cengage product initiatives and developments confidential to Cengage employees and other Advisory Board members.

GOB Advisory Board – Mrs. Roxanne Wang

Feb 2023 – May 2024

- Participate in up to 5-10 hours of work with other Advisory Board members and Cengage team.

- Be reasonably available and responsive, through email and phone, to advise on product development, messaging, and enhancements.
- Hold all Cengage product initiatives and developments confidential to Cengage employees and other Advisory Board members.

PEARSON

Chemistry Advisory Board – Mrs. Candice Madden

March 2022 – March 2023

- Participate in up to 15 hours of virtual meetings with other Advisory Board members and Pearson team at the approximate rate of one per month (no more than two per month).
- Be reasonably available and responsive, through email and phone, to advise on product development, messaging, and enhancements.
- Hold all Pearson product initiatives and developments confidential to Pearson employees and other Advisory Board members.

PROTON GURU

Inclusive Chemistry Content Author – Dr. Rhett Smith

March 2021 – May 2021

- Provided original content pertaining to individual lessons on the ProtonGuru.com website as a real-world highlight. These extra pages presented examples from the literature connecting an application or key topic in the lesson of interest.

MACMILLAN PUBLISHING

Chemistry Content Author – Mr. Stacy Benson

Aug 2021 – Dec 2021

- Created original content in clear, step by step explanations for Sapling Learning system

Chemistry Content Author – Mrs. Heather Southerland

May 2018 – June 2020

NORTON PUBLISHING

Chemistry Content Problem Solver– Ms. Liz Vogt

June 2021 – Oct 2021

- Supplied original content in clear, step by step explanations for end-of-chapters problems for Joel Karty's Organic Chemistry: Principles and Mechanisms (2nd Edition)

Chemistry Content Author– Ms. Arielle Holstein

May 2017 – Sept 2017

- Furnished original content in clear, step by step explanations for end-of-chapters problems for Joel Karty's Organic Chemistry: Principles and Mechanisms (2nd Edition)

Guest Blogger, "Teach the Mechanism" – Ms. Selin Tekgurler

Oct 2016 – Dec 2022

"Teach the Mechanism" blog is a website designed as a forum for instructors that use Joel Karty's book, Organic Chemistry: Principles and Mechanisms. Guest bloggers are asked to share their thoughts and experience teaching a mechanistically organized course. Authored 27 total posts on the website: <https://teachthemechanism.com/>

THE UNIVERSITY OF AKRON – Akron, OH

Department of Chemistry

Organic Chemistry 2 Lecture – Co-Instructor with Dr. Wiley Youngs

Spring 2016

Taught weekly lectures on Monday and Wednesday evenings to a class size of ~130 students. Discussed the core topics of Organic Chemistry 2. Conducted 75 min lecture in a PowerPoint presentation in large classroom. Prepared course materials (syllabus, lectures, exams, additional study aids, etc.), held weekly office hours and enforced curricula (arranged and graded course materials).

Graduate Researcher – Dr. Wiley Youngs

2011 – May 2016

- Synthesized imidazolium salts (IS) for use as potential antitumor pharmaceuticals and UTI exfoliants. Evaluated structure activity relationship of substituted *N,N'*-bis(arylmethyl)imidazolium and benzimidazolium salts tested against non-small cell lung cancer (NSCLC) cell lines NCI-H460, NCI-H1975, HCC827, and NCI-A549 cells. Enhancement of the imidazolium salts' anti-proliferative activities were achieved through substituent variations in the different series of imidazolium salts.
- Gained experience with the synthesis of silver carbene complexes for use in anti-microbial studies and helped to optimize the synthetic procedure of SCC1.

Teaching Assistant – Dr. David Modarelli/ Dr. Matthew Panzner

2011 – Dec 2015

The University of Akron Research Foundation (UARF) – Akron, OH

Workshop Lab Assistant (WLA) Chemistry Aid – Dr. Victor Monroy

2011 – 2013

- Tutored Saudi Arabian Engineering & Elastomer students in groups of 3 – 7 on a weekly basis.

- Created supplementary study aids for students.
- Constructed demo kits demonstrating the interactions of carbon fillers, silica fibers and white mineral fillers.
- Prepared and edited PowerPoint Lectures on General/Organic Chemistry, Elastomer (general and specialized polymer types) and Elastomer Fillers.

THE UNIVERSITY OF KENTUCKY – Lexington, KY

Department of Chemistry

Graduate Research – Dr. John Anthony

2008 – 2011

- Synthesized c-fused anthradithiophene quinones for the intended use as acceptor material for organic photovoltaic devices. Enhancement of these compounds was conducted through tetrafunctionalization of silylethynyl groups. Studied trends of crystal packing with synthesized derivatives. Synthesis of acenequinones was accomplished through integration of different heterocycles.
- Research focus was on integrated areas of organic chemistry and materials science.

AREAS OF INTEREST & TECHNICAL SKILLS

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| <ul style="list-style-type: none"> • Organic Synthesis • Medicinal Chemistry • Purification Techniques • NMR Spectroscopy • Fourier-Transform Infrared (FT-IR) • Gas Chromatograph (GC) • Mass Spectrometry (MS) | <ul style="list-style-type: none"> • Scanning Electron Microscopy (EDS-SEM) • Chemical Education • Career Readiness for STEM majors • Online Certification in Supportive Inclusive Practices (SIP), Developing Inclusive Practices (DIP), Quality Matters |
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GRANTS AWARDED

- Faculty Development University Research Grant – “Preserving Latent Prints for Forensic Use Through Debris Testing.”, Columbus State University, Spring 2025, \$1,602.
- Center for Experiential Learning and Career Design/CSU Faculty Center Experiential Field Trip Grant - “CHEM 3111-Organic Chemistry”, Columbus State University, Spring 2025, \$1000.
- American Chemical Society Summer Undergraduate Research [Fellowship](#) (SURF), “Synthesis and biological activity of N,N'-bis-substituted-triazolium salts against the cell proliferation and cell viability of NCI-H1299 carcinoma and WI-38 cells”, Columbus State University, Summer 2024, \$6000.
- Center for Experiential Learning and Career Design/CSU Faculty Center Experiential Field Trip Grant - “CHEM 1715-Introductory Chemistry Seminar”, Columbus State University, Fall 2024, \$1000.
- Faculty Development University Research Grant – “Synthesis and biological activity of N,N'-bis-substituted triazolium salts to study the cell proliferation and cell viability of NCI-H1299 and WI-38 cells.”, Columbus State University, Spring 2024, \$3,000
- Center for Experiential Learning and Career Design/CSU Faculty Center Experiential Field Trip Grant - “CHEM 1715-Introductory Chemistry Seminar”, Columbus State University, Fall 2023, \$500.
- Teaching and Learning External Development Grant, Columbus State University, Fall 2022-Spring 2023, \$1,000.
- American Chemical Society's 2022 Diversity, Equity and Respect (DEIR) Grant, “Undergraduate students utilizing innovative research to developing a structure activity relationship,” Columbus State University, Fall 2022, \$1,400
- “2023 Mind Prize”, Sponsored by Pershing Square Foundation, Private, “Synthesis and biological activity of N-substituted benzothiazolium salts as biological agent against ALS cells and the effects of the TDP-43 Protein.” Columbus State University, Fall 2022, Not funded.
- “Organic Syntheses Summer Research Grant Program”, Sponsored by American Chemistry Society Division of Organic Chemistry, Columbus State University, Fall 2022, Not funded.
- Faculty Development University Research Grant – “Synthesis and biological activity of N-substituted benzothiazolium salts as biological agent against ALS cells and the effects of the TDP-43 Protein.”, Columbus State University, Fall 2022, \$3,593
- Center for Experiential Learning and Career Design/CSU Faculty Center Experiential Field Trip Grant - “CHEM 1715-Introductory Chemistry Seminar”, Columbus State University, Fall 2022, \$300.
- Center for Experiential Learning and Career Design/CSU Faculty Center Interdisciplinary Initiative Grant - “The effects of benzothiazole-derivatives on the TDP-43 protein in ALS patients”, Columbus State University, Spring 2022, \$2,000.
- Faculty Development University Research Grant – “Synthesis and differential anti-proliferative activity of N,N'-substituted triazolium salts against ESKAPE pathogens, Columbus State University, Spring 2022, \$2,000
- Kohler Foundations, “Pasaquan Interdisciplinary Paint Restoration Project”, Columbus State University, Spring 2022, \$70,000.

- Center for Experiential Learning and Career Design/CSU Faculty Center Experiential Field Trip Grant - "CHEM 1715-Introductory Chemistry Seminar", Columbus State University, Fall 2021, \$1230.
- Center for Experiential Learning and Career Design/CSU Faculty Center Interdisciplinary Initiative Grant - "Chemical Investigations of Organics in the Chattahoochee River", Columbus State University, Spring 2021, \$2,000.
- Henry Dreyfus Teacher Scholar, "*N,N'*-bis-substituted triazolium salts as anti-tumor and antimicrobial agents", Sponsored by Private, \$75000. Columbus State University. Not Funded. Fall 2020.
- Center for Experiential Learning and Career Design/CSU Faculty Center Interdisciplinary Initiative Grant - "Pasaquan Interdisciplinary Paint Restoration Project", Columbus State University, Summer 2020, \$2,000.
- Buchi 2020 Scholar Travel Grant, Columbus State University, Summer 2020, \$1,000.
- Teaching and Learning External Development Grant, Columbus State University, Spring 2020, \$1,000
- WiSTEM2D Scholars Award Program, Sponsored by Johnson & Johnson, Private, "Impacts of research and as a leader in STEM2D fields." Columbus State University, Fall 2019, Not funded
- Innovation in Scholarship and Research Seed Grant FY20 – "Pasaquan Interdisciplinary Paint Restoration Project," Columbus State University, Fall 2019, \$3,495
- Faculty Development University Research Grant – *N,N'*-bis-substituted triazolium salts, Columbus State University, Fall 2019, \$2,350
- Center for Experiential Learning and Career Design/CSU Faculty Center Interdisciplinary Initiative Grant - "Chemistry in the Arts: Identification and Documentation of 1920s Physicians' Kits", Columbus State University, Spring 2019, \$2,000
- Faculty Development University Research Grant – NIH Writing Conference, Columbus State University, Spring 2019, \$1,232
- Innovation in Scholarship and Research Seed Grant FY19 - Hybrid triazolium salts, Columbus State University, Fall 2018, \$3,353
- Faculty Development University Research Grant - Caffeine inspired molecules, Columbus State University, Fall 2018, \$3,050
- Center for Experiential Learning and Career Design/CSU Faculty Center Interdisciplinary Initiative Grant - CHEM 3555/TDS 1155/HONS 3555 Curricula, Columbus State University, Fall 2017, \$1,000
- Mini-STEM Grant - Flipping the Organic Chemistry I classroom" CHEM 3111/3112 Curricula, Columbus State University, Fall 2017, \$2,691.25
- NSF MRI grant, "MRI: Acquisition of 400 MHz Nuclear Magnetic Resonance Spectrometer", Sponsored by Federal, \$416,130. Columbus State University. Not Funded. Fall 2017.
- Faculty Development University Research Grant - Doxo-inspired molecules, Columbus State University, Fall 2017, \$4,600
- Faculty Development University Research Grant - Hybrid imidazolium salts, Columbus State University, Fall 2016, \$4,144

AWARDS AND DISTINCTIONS

- Awarded the 2024 Teaching Mentor for Core Course Design Institute, Columbus State University, Fall 2024-Fall 2025
- Awarded the 2024 Faculty Teaching Excellence Award, Columbus State University, 2024
- Awarded the 2024 Educator of the Year Award, Columbus State University, Spring 2024
- Awarded the 2024 ACS Division of Organic Chemistry Summer Undergraduate Research Fellowship (SURF)
- Awarded the 2023 Faculty Research and Scholarship Award, Columbus State University, 2023
- Awarded the 2023 Governors Teaching Fellow, Columbus State University, 2023
- Nominated for 2023 Rising Star Award, ACS Women Chemists Committee, Fall 2022
- Nominated for Tower Day Faculty Mentorship in Research and Creative Endeavors, Columbus State University, Spring 2022
- Finalist for 2022 Educator of the Year Award, Columbus State University, Spring 2022
- Young Chemist Committee (YCC) Leadership Development Award, American Chemical Society (ACS), 2021
- Faculty Writing Fellowship, Columbus State University, 2020-2021
- Buchi 2020 Scholar Award, Columbus State University, Summer 2020
- Outstanding Faculty/Staff Award, Columbus State University, Spring 2020
- Nominated for Tower Day Faculty Mentorship in Research and Creative Endeavors, Columbus State University, Spring 2020
- Mentorship of a Goldwater Scholar Award, Columbus State University, Spring 2019
- Outstanding Professional Award for teaching skills in CHEM 3111, Columbus State University, Fall 2018
- 2018 Inaugural Honors Faculty Fellow, Columbus State University, Fall 2018
- National Society Leadership and Success Teaching Award, Columbus State University, 2018
- Dr. Henry and Jean Stevens Graduate Fellowship, The University of Akron, 2016

- Graduate Student Presentation Award at Cleveland ACS Meeting in Miniature, 2015
- Outstanding Teaching Assistant Award, The University of Akron, 2015
- Dr. & Mrs. James A. D'Ianni Scholarship, The University of Akron, 2011
- Max Steckler Fellowship, University of Kentucky

SPEAKING ENGAGEMENTS

Keynote Speaker, "Chemical Investigations & Restoration of Pasaquan" in *American Chemical Society Women's Chemist Committee 2025* (May 2025), New College of Florida.

PUBLICATIONS/PUBLISHED WORKS

1. Fine, C. Devera, C. Shelton, K.L., Dabke, R. "Development and evaluation of audible modules: chemistry learning for visually impaired students." *JCE*. **2025 Article ASAP**. DOI: 10.1021/acs.jchemed.3c01276
2. Shelton, K.L. "Chemistry in the Museum: Elucidation of 1920s Medical Kits." *SECEIJ*. **2023**, Winter 24, 16 (1), 36-59.
3. Shelton, K.L., and Gonzalez, J. "Bringing Chemistry Majors into Real-World Settings to Increase Motivation and Performance." *The Chemical Educator*, **2023**, 28, 1-6.
4. Dabke, R. Shelton, K.L. & Melaku, S. Interlocking Toy Building Blocks as Teaching Modules for Undergraduate Organic Chemistry-Based Course for Allied Health Majors. *J. Chem. Educ.* **2022**, 99 (7), 2726–2732.
5. Ramos, S., Shelton, K.L., "Chemical Investigations of Pasaquan & Interdisciplinary Paint Restoration." *The Chemical Educator*. *The Chemical Educator*, **2022**, 27, 51-57.
6. Wilson, J. A., Lin, Z. J., Rodriguez, I., Ta, T., Martz, L., Fico, D., Johnson, S. S., Gorden, J. D., Shelton, K. L., King, L. B., "Synthesis, characterization, and antimicrobial activity of lipophilic N,N'-bis-substituted triazolium salts." *J. Heterocyclic Chem.* **2021**, 1. <https://doi.org/10.1002/jhet.4403>
7. Ramos, S., Spires, J., Brooks, A., Bush, R., Shelton, K.L. "Mystery Science Museum 3000" Columbus, GA, July 2020 – January 2021, The Columbus Museum. <https://columbusmuseum.com/exhibitions/current-exhibitions/mystery-science-museum-3000.html>
8. Lin, Z., Bies, J., Johnson S., Gorden, J.D., Strickland, J., Frazier, M., Meyers, J. M., Shelton, K.L. "Synthesis and anti-proliferative activity of N,N'-bis- substituted 1,2,4-triazolium salts against breast cancer and prostate cell lines." *Journal of Heterocyclic Chemistry*, **2019**, 56 (2), 533-538.
9. Shelton, K.L., Wagers, P.O., DeBord, M.A., Southerland, M.R., Williams, T.M., Robishaw, N.K., Panzner, M.J., Tessier, C.A., Youngs, W.J. Synthesis and Anti-proliferative activity of substituted N,N'-bis(arylmethyl)benzimidazolium salts against select non-small cell lung cancer cell lines." *Bioorganic & Medicinal Chemistry*, **2017**, 25, 421-439.
10. Shelton, K.L., DeBord, M.A., Wagers, P.O., Panzner, M.J., Southerland, M.R., Taraboletti, A.A., Robishaw, N.K., Jackson, D.J., Tessier, C.A., Shriver, L.P., Youngs, W.J. Synthesis, Anti-proliferative activity and Toxicity of C⁴(C⁵)-substituted N,N'-bis(arylmethyl)imidazolium salts against select non-small cell lung cancer cell lines. *Tetrahedron*, **2016**, 72, 5729-5743.
11. Wagers, P.O., Tiemann, K.M., Shelton, K.L., Kofron, W.G., Panzner, M.J., Wooley, K.L., Youngs, W.J. and Hunstad, D.A. Imidazolium salts as small-molecule urinary bladder exfoliants in a murine model. *Antimicrob. Agents Chemother.* **2015**, 59, 5494-5502. DOI 10.1128/AAC.00881-15. <http://aac.asm.org/content/early/2015/06/24/AAC.00881-15>.
12. Wright, B.D., Deblock M.C., Wagers, P.O., Duah, E., Robishaw, N.K., Shelton, K.L., Southerland, M.R., DeBord, M.A., Kersten, K.M., McDonald, L.J., Stiel, J.A., Panzner, M.J., Tessier, C.A., Paruchuri, S., Youngs, W.J. Anti-tumor activity of lipophilic imidazolium salts on select NSCLC cell lines. *Med. Chem. Res.* **2015**, 24, 2838-2861. DOI 10.1007/s00044-015-1330-z. <http://link.springer.com/article/10.1007/s00044-015-1330-z>
13. Wagers, P.O., Shelton, K.L., Panzner, M.J., Tessier, C.A. and Youngs, W.J. (2014) Synthesis and Medicinal Properties of Silver–NHC Complexes and Imidazolium Salts, in *N-Heterocyclic Carbenes: Effective Tools for Organometallic*

CONFERENCE PROCEEDING & PRESENTATIONS

1. Simmons, P., Dove, N., Kennedy, A., Crane, L., Goode, D., Frazier, M., Shelton, K.L. "Synthesis and biological activity of N,N'-bis-substituted-triazolium salts against the cell proliferation and cell viability of NCI-H1299 carcinoma and WI-38 cells" Department of Chemistry, Columbus State University - Poster Presentation, Fall 2024 SERMACS Regional Meeting, Atlanta, GA.
2. Schmitz, A., Clarkson, T., Simmons, P., Shelton, K.L. "Preserving Latent Prints for Forensic Use Through Debris Testing: Collaborative Project with Georgia Bureau of Investigation." Department of Chemistry, Columbus State University - Poster Presentation, Fall 2024 SERMACS Regional Meeting, Atlanta, GA.
3. Dabke, R., Melaku, S., Shreck, J., Griffin, K., Harrell, M., Ray, L., Turner, H., Devera, C., Fine, C., Shelton, K.L., "Chemistry classroom and laboratory learning modules for visually impaired high school and undergraduate students." Department of Chemistry, Columbus State University – ACS Oral Presentation, Summer 2024 IUPAC International Conference on Chemistry Education, Pattaya, Thailand.
4. Schmitz, A., Simmons, P., Shelton, K.L. "Fingerprint Analysis and Experimental Methods to Maintain Studies for Purposes of Toxicology & Arson." Department of Chemistry, Columbus State University - Poster Presentation, Spring 2024 Tower Day, Columbus, GA.
5. Simmons, P., Kennedy, A., Frazier, M., Shelton, K.L. "Synthesis, Characterization, and Cytotoxic Activity of Substituted THC Salts." Department of Chemistry, Columbus State University - Poster Presentation, Spring 2024 Tower Day, Columbus, GA.
6. Crane, L., Byrom, J., Martin, R., Kennedy, A., Goode, D., Gorden, J., Frazier, M., Shelton, K.L. "Exploring Novel 1,2,3-Triazolium Salts as Potential Biological Agents." Department of Chemistry, Columbus State University - Poster Presentation, Spring 2024 Tower Day, Columbus, GA.
7. Fine, C. Devera, C. Shelton, K.L., Dabke, R. "Development and evaluation of audible modules: chemistry learning for visually impaired students." Department of Chemistry, Columbus State University – ACS Oral Presentation, Spring 2024 National Meeting New Orleans, LA.
8. Crane, L., Byrom, J., Martin, R., Kennedy, A., Goode, D., Gorden, J., Frazier, M., Shelton, K.L. "Exploring Novel 1,2,3-Triazolium Salts as Potential Biological Agents." Department of Chemistry, Columbus State University – ACS Poster Presentation, Spring 2024 National Meeting New Orleans, LA.
9. Parker, C., Crane, L. Kennedy, A., Goode, D., Unruh, D., Gorden, J., Frazier, M., Shelton, K.L. "Rational Design and Anti-Proliferative Activity of Substituted Azolium Salts as Therapeutics." Department of Chemistry, Columbus State University – ACS Poster Presentation, Spring 2024 National Meeting New Orleans, LA.
10. Simmons, P., Kennedy, A., Frazier, M., Shelton, K.L. "Synthesis, Characterization, and Cytotoxic Activity of Substituted THC Salts." Department of Chemistry, Columbus State University – ACS Poster Presentation, Spring 2024 National Meeting New Orleans, LA.
11. Fine, C. Devera, C. Shelton, K.L., Dabke, R. "Development and evaluation of audible modules: chemistry learning for visually impaired students." Department of Chemistry and Department of Biology, Columbus State University – Oral Presentation, Fall 2023 Faculty Research Conference, Columbus, GA.
12. Fine, C. Devera, C. Shelton, K.L., Dabke, R. "Development and evaluation of audible titration modules: chemistry learning for visually impaired students." Department of Chemistry and Department of Biology, Columbus State University – Poster Presentation, Fall 2023 SERMACS, Durham, NC.
13. Fine, C. Devera, C. Shelton, K.L., Dabke, R. "Development and evaluation of audible titration modules: chemistry learning for visually impaired students." Department of Chemistry and Department of Biology, Columbus State University – Poster Presentation, Spring 2023 CSU Tower Day, Columbus, GA.

14. Kennedy, A. Powell, K., Thornton, D., Carlisle, H., Ramos, S., Gorden, J., Unruh, D., Goode, D., Frazier, M., Shelton, K.L. "Synthesis and biological activity of N-substituted-benzothiazolium salts upon application with ALS cells and the effects of the TDP-43 Protein." Department of Chemistry and Department of Biology, Columbus State University – Oral Presentation, Spring 2023 CSU Tower Day, Columbus, GA.
15. Shelton, K.L., and Gonzalez, J. "Student Experiences in Academic and Industrial Environments Provide Living User's Manual for Chemistry Majors." Department of Chemistry, Columbus State University – Take Ten Talk Presentation, Spring 2023 USG Teaching & Learning Conference, Athens, GA.
16. Davis, N. Wilkes, H., Kennedy, A., Powell, K., Fico, D. Rodriguez, I., Shelton, K.L. Frazier, M., "Synthesis and biological activity of *N,N'*-bis-substituted-triazolium salts against the cell proliferation and cell viability of NCI-H1299 carcinoma and WI-38 cells." Department of Chemistry and Department of Biology, Columbus State University – Poster Presentation, Spring 2023 LSAMP Alliance Summit, Columbus, GA.
17. Kennedy, A., Powell, K., Thornton, D., Carlisle, H., Ramos, S., Gorden, J., Unruh, D., Goode, D., Frazier, M., Shelton, K.L. "Synthesis and biological activity of *N*-substituted-benzothiazolium salts upon application with ALS cells and the effects of the TDP-43 Protein." Department of Chemistry and Department of Biology, Columbus State University – Poster Presentation, Spring 2023 LSAMP Alliance Summit, Columbus, GA.
18. Clamor, R., Crane, L., Martin, R., Kennedy, A. Powell, K., Fico, D. Rodriguez, I., Goode, D., Unruh, D., Gorden, J., Frazier, M., Shelton, K.L. "Synthesis, characterization, and biological properties of asymmetric *N,N'*-bis-substituted triazolium salts." Department of Chemistry, Columbus State University – Poster Presentation, Spring 2023 LSAMP Alliance Summit, Columbus, GA.
19. Kennedy, A., Powell, K., Thornton, D., Carlisle, H., Ramos, S., Gorden, J., Unruh, D., Goode, D., Frazier, M., Shelton, K.L. "Synthesis and biological activity of N-substituted-benzothiazolium salts against ALS-like cells and the TDP-43 Protein." Department of Chemistry and Department of Biology, Columbus State University – Poster Presentation, Fall 2022 Louis Stokes Midwest Regional Conference of Excellence (LSMRCE), "STEM Ecosystem: Diversity, Partnership, and Empowerment.", Chicago, IL.
20. Clamor, R., Crane, L., Martin, R., Kennedy, A. Powell, K., Fico, D. Rodriguez, I., Goode, D., Unruh, D., Gorden, J., Frazier, M., Shelton, K.L. "Synthesis, characterization, and biological properties of asymmetric *N,N'*-bis-substituted triazolium salts." Department of Chemistry, Columbus State University - Poster Presentation, Fall 2022 SWRM Regional Meeting, Baton Rouge, LA.
21. Kennedy, A. Powell, K., Thornton, D., Carlisle, H., Ramos, S., Gorden, J., Unruh, D., Goode, D., Taraboletti, A., Frazier, M., Shelton, K.L. "Synthesis and biological activity of *N*-substituted-benzothiazolium salts upon application with ALS cells and the effects of the TDP-43 Protein." Department of Chemistry, Columbus State University - Oral Presentation, Fall 2022 SWRM Regional Meeting, Baton Rouge, LA. – **[INVITED TALK]**
22. Carlisle, H., Goodwin, K., Klar, E., Taylor, K.S. "Chemical Investigations of Organics in the Chattahoochee River." Department of Chemistry, Columbus State University - Poster Presentation, Fall 2022 SWRM Regional Meeting, Baton Rouge, LA.
23. Kennedy, A. Powell, K., Thornton, D., Carlisle, H., Ramos, S., Gorden, J., Unruh, D., Goode, D., Taraboletti, A., Frazier, M., Shelton, K.L. "Synthesis and biological activity of *N*-substituted-benzothiazolium salts upon application with ALS cells and the effects of the TDP-43 Protein." Department of Chemistry, Columbus State University - Oral Presentation, Fall 2022 Faculty Research Conference, Columbus, GA– Virtual.
24. Kennedy, A., Powell, K., Thornton, D., Carlisle, H., Ramos, S., Gorden, J., Unruh, D., Goode, D., Tarabolletti, A., Frazier, M., Shelton, K.L. "Synthesis and biological activity of *N*-substituted-benzothiazolium salts against ALS-like cells and the TDP-43 Protein." Department of Chemistry and Department of Biology, Columbus State University – Poster Presentation, Fall 2022 Annual Biomedical Research Conference for Minority Students (ABRCMS), Anaheim, CA.
25. Kennedy, A. Powell, K., Thornton, D., Carlisle, H., Ramos, S., Gorden, J., Unruh, D., Goode, D., Taraboletti, A., Frazier, M., Shelton, K.L. "Synthesis and biological activity of *N*-substituted-benzothiazolium salts upon application

- with ALS cells and the effects of the TDP-43 Protein." Department of Chemistry, Columbus State University - Poster Presentation, Fall 2022 Herty Medalist Undergraduate Research Symposium (HMURS), Lawrenceville, GA.
26. Carlisle, H., Goodwin, K., Klar, E., Taylor, K.S. "Chemical Investigations of Organics in the Chattahoochee River." Department of Chemistry, Columbus State University - Poster Presentation, Fall 2022 Herty Medalist Undergraduate Research Symposium (HMURS), Lawrenceville, GA.
 27. Joshi, M.M, Wilson, J.A., Shelton, K.L., King, L.B. "Antimicrobial and Anti-Biofilm Effects of Benzothiazole Derivatives Against Multi-Drug Resistant UTI Isolates of *Acinetobacter baumannii*." Poster Presentation, Fall 2022 Mercer University School of Medicine Summer Scholars Research Symposium, Columbus, GA.
 28. Carlisle, H., Goodwin, K., Klar, E., Taylor, K.S. "Chemical Investigations of Organics in the Chattahoochee River." Department of Chemistry, Columbus State University - Poster Presentation, Spring 2022 Tower Day, Columbus, GA.
 29. White, A., Thornton, D., Ramos, S., Taylor, K., Frazier, M. "Biological Effects of Benzothiazole Derivatives: ALS cells and the effects of the TDP-43." Department of Chemistry, Columbus State University - Poster Presentation, Spring 2022 Tower Day, Columbus, GA.
 30. Harrison, C. McFalls, M. Shelton, K.L. "Chemical Investigations of Pasaquan & Interdisciplinary Paint Restoration." Department of Chemistry, Columbus State University- Poster Presentation, Spring 2022 Tower Day, Columbus, GA.
 31. White, A., Thornton, D., Ramos, S., Taylor, K., Frazier, M. "Biological Effects of Benzothiazole Derivatives: ALS cells and the effects of the TDP-43." Department Chemistry, Columbus State University – Poster Presentation, Spring 2022 Annual Meeting of the Georgia Academy of Science, Valdosta, GA.
 32. Thornton, D., White, A., Carlisle, H., Ramos, S., Sanders, S., Gorden, J., Frazier, M. Taylor, K., "Synthesis and biological activity of N-substituted-benzothiazolium salts with lipophilic and hydrophilic substituents upon application with ALS cells and the effects of the TDP-43 Protein." Department Chemistry, Columbus State University – Poster Presentation, Spring 2022 Louis Stokes Alliance Minority Participation (LSAMP) Summit Conference, Virtual.
 33. Wilson, J., Lin, Z., Rodriguez, I., Fico, D., Ta, T., Martz, L., Johnson, S., Gorden, J., King, L., Shelton, K.L. "Synthesis and biological activity of *N,N'*-bis-substituted-triazolium salts as potential antiviral and antimicrobial agents." Department of Chemistry, Columbus State University - Poster Presentation, Fall 2021 SERMACS Regional Meeting, Birmingham, AL.
 34. Fico, D., Rodriguez, I.C., Wilson, J., Clamor, R.V., Sanders, S., Gorden, J., Frazier, M., King, L., Taylor K.S. "Synthesis, characterization, and cytotoxic activity of asymmetric *N,N'*-bis-substituted 1,2,3- triazolium Salts." Department of Chemistry, Columbus State University - Poster Presentation, Fall 2021 SERMACS Regional Meeting, Birmingham, AL.
 35. Carlisle, H., Goodwin, K., Klar, E., Taylor, K.S. "Chemical Investigations of Organics in the Chattahoochee River." Department of Chemistry, Columbus State University - Poster Presentation, Fall 2021 SERMACS Regional Meeting, Birmingham, AL.
 36. White, A., Thornton, D., Ramos, S., Taylor, K., Frazier, M. "ALS cells and the effects of the TDP-43 Protein." Department Chemistry, Columbus State University – Poster Presentation, Fall 2021 Louis Stokes Midwest Regional Center of Excellence (LSMRCE) Virtual Conference, Chicago, IL – virtual.
 37. Ramos, S., Shelton, K.L., McFalls, M.C. "Chemical Investigations of Pasaquan & Interdisciplinary Paint Restoration." Department of Chemistry, Columbus State University - Oral Presentation, Fall 2020 Faculty Research Conference, Columbus, GA– Virtual.
 38. Ramos, S., Shelton, K.L., McFalls, M.C. "Chemical Investigations of Pasaquan & Interdisciplinary Paint Restoration." Department of Chemistry, Columbus State University – Poster Presentation, Fall 2021 National ACS Meeting – Virtual.
 39. Lin, Z., Wilson, J., Ta, T., Rodriguez, I., Martz, L., Fico, D., Johnson, S., Gorden, J., King, L., Shelton, K.L. "Synthesis and biological activity of *N,N'*-bis-substituted-triazolium salts as potential antiviral and antimicrobial agents."

Department of Chemistry, Columbus State University – Poster Presentation, Spring 2021 ACS National Meeting – Virtual.

40. Rodriguez, I., Fico, D., Wilson, J., Johnson, S., Gorden, J., Frazier, M., King, L., Shelton, K. L. "Synthesis and biological activity of asymmetric *N,N'*-bis-substituted benzotriazolium salts with lipophilic and hydrophilic substituents when used as anti-tumor and antimicrobial agents." Department of Chemistry, Columbus State University – ACS Poster, Spring 2021 National Meeting – Virtual.
41. Ramos, S., Shelton, K.L., McFalls, M.C. "Chemical Investigations of Pasaquan & Interdisciplinary Paint Restoration." Department of Chemistry, Columbus State University – Oral Presentation, Spring 2021 National Council on Undergraduate Research Conference, Washington, DC – Virtual.
42. Rodriguez, I., Fico, D., Wilson, J., Johnson, S., Gorden, J., Frazier, M., King, L., Shelton, K. L. "Synthesis and biological activity of asymmetric *N,N'*-bis-substituted benzotriazolium salts with lipophilic and hydrophilic substituents when used as anti-tumor and antimicrobial agents." Department Chemistry, Columbus State University – Poster Presentation, Spring 2021 Georgia Southwestern LSAMP Alliance Summit Virtual Conference, Columbus, GA – virtual.
43. Ramos, S., Shelton, K.L., McFalls, M.C. "Chemical Investigations of Pasaquan & Interdisciplinary Paint Restoration." Department of Chemistry, Columbus State University – Oral Presentation, Spring 2021 Georgia Southwestern LSAMP Alliance Summit Virtual Conference, Columbus, GA – virtual.
44. Lin, Z., Wilson, J., Ta, T., Rodriguez, I., Martz, L., Fico, D., Johnson, S., Gorden, J., King, L., Shelton, K.L. "Synthesis and biological activity of *N,N'*-bis-substituted-triazolium salts as potential antiviral and antimicrobial agents." Department of Chemistry, Columbus State University - Oral Presentation, Fall 2020 Faculty Research Conference, Columbus, GA.
45. Ramos, S., Shelton, K.L., McFalls, M.C. "Chemical Investigations of Pasaquan & Interdisciplinary Paint Restoration." Department of Chemistry, Columbus State University – Poster Presentation, Fall 2020 Louis Stokes Midwest Regional Center of Excellence (LMRCE) Virtual Conference, "Broadening Participation in STEM: Pivot, Adapt, Thrive." Chicago, IL – virtual.
46. Rodriguez, I., Fico, D., Wilson, J., Johnson, S., Gorden, J., Frazier, M., King, L., Shelton, K. L. "Synthesis and biological activity of asymmetric *N,N'*-bis-substituted-triazolium salts with lipophilic and hydrophilic substituents when used as anti-tumor and antimicrobial agents." Department Chemistry, Columbus State University – Poster Presentation, Fall 2020 Louis Stokes Midwest Regional Center of Excellence (LMRCE) Virtual Conference, "Broadening Participation in STEM: Pivot, Adapt, Thrive." Chicago, IL – virtual.
47. Ramos, S., Shelton, K.L., McFalls, M.C. "Chemical Investigations of Pasaquan & Interdisciplinary Paint Restoration." Department of Chemistry, Columbus State University – Poster Presentation, Fall 2020 Herty Medalist Undergraduate Research Symposium (HMURS), Lawrenceville, GA - virtual.
48. Shelton, K.L., and Gonzalez, J. "Bringing Chemistry Majors into Real-World Settings to Increase Motivation and Performance." Department of Chemistry, Columbus State University - Poster Presentation, Spring 2020, USG Teaching and Learning Conference, Athens, GA. (Conference canceled due to COVID pandemic)
49. Lin, Z., Wilson, J., Ta, T., Johnson, S., Gorden, J., King, L., Meyers, J. Shelton, K.L. "Synthesis and biological activity of *N,N'*-bis-substituted-triazolium salts as potential antiviral and antimicrobial agents." Department of Chemistry, Columbus State University - Oral Presentation, Fall 2019 SERMACS Regional Meeting, Savannah, GA.
50. Ramos, S., Brooks, A., Bush, R., Lynch, R., Shelton, K.L. "Chemistry in the Arts: Identification and Documentation of 1920s Physicians' Kits." Department of Chemistry, Columbus State University - Poster Presentation, Fall 2019 SERMACS Regional Meeting, Savannah, GA.
51. Fico, D.A., Johnson, S., Gorden, J., Frazier, M., Meyers, J., Shelton, K.L. "Synthesis and anti-proliferative activity of ATP inspired compounds as Cancer Killing Agents." Department of Chemistry, Columbus State University - Poster Presentation, Fall 2019 SERMACS Regional Meeting, Savannah, GA.

52. Ta, T., Lin, Z., Johnson, S., Gorden, J., Martz, L., Fico, D.A., Frazier M., Meyers, J., Shelton, K.L. "Synthesis and anti-proliferative activity of *N,N'*-bis-substituted-2,4-triazolium salts with lipophilic and hydrophilic substituents." Department of Chemistry, Columbus State University - Poster Presentation, Spring 2019 Tower Day, Columbus, GA.
53. Lin, Z., Wilson, J., Ta, T., Johnson, S., Gorden, J., King, L., Meyers, J. Shelton, K.L. "Synthesis and biological activity of *N,N'*-bis-substituted-triazolium salts as potential antiviral and antimicrobial agents." Department of Chemistry, Columbus State University - Oral Presentation, Tower Day, Spring 2019 Tower Day, Columbus, GA.
54. Ta, T., Lin, Z., Johnson, S., Gorden, J., Martz, L., Fico, D.A., Frazier M., Meyers, J., Shelton, K.L. "Synthesis and anti-proliferative activity of *N,N'*-bis-substituted-2,4-triazolium salts with lipophilic and hydrophilic substituents." Department of Chemistry, Columbus State University - Poster Presentation, Spring 2019 ACS National Meeting, Orlando, FL.
55. Lin, Z., Wilson, J., Ta, T., Johnson, S., Gorden, J., King, L., Meyers, J. Shelton, K.L. "Synthesis and biological activity of *N,N'*-bis-substituted-triazolium salts as potential antiviral and antimicrobial agents." Department of Chemistry, Columbus State University - Poster Presentation, Spring 2019 ACS National Meeting, Orlando, FL.
56. Holley, D. W., Taylor, K.S., & Smith, B. "Is flipping the second semester organic chemistry classroom as effective way to increase student learning?" Department of Chemistry, Columbus State University - Poster Presentation, Spring 2019 ACS National Meeting, Orlando, FL.
57. Lin, Z., Bies, J., Johnson, S.S., Gorden, J.D., Strickland, J., Frazier, M., Meyers, J.M., Shelton, K.L. "Synthesis and anti-proliferative activity of *N,N'*-bis-substituted 1,2,4-triazolium salts with various substituents." Department of Chemistry, Columbus State University – Oral Presentation, Spring 2018 Annual Meeting of the Georgia Academy of Science, Carrolton, GA.
58. Lin, Z., Bies, J., Johnson, S.S., Gorden, J.D., Strickland, J., Frazier, M., Meyers, J.M., Shelton, K.L. "Synthesis and anti-proliferative activity of *N,N'*-bis-substituted 1,2,4-triazolium salts with various substituents." Department of Chemistry, Columbus State University – Oral Presentation, Spring 2018 Tower Day Columbus, GA.
59. Lin, Z., Bies, J., Johnson S., Gorden, J.D., Strickland, J., Frazier, M., Meyers, J. M., Shelton, K.L. "Synthesis and anti-proliferative activity of *N,N'*-bis- substituted 1,2,4-triazolium salts against breast cancer and prostate cell lines." Department of Chemistry, Columbus State University – ACS Poster, Spring 2018 National Meeting New Orleans, LA.
60. Lin, Z., Bies, J., Johnson S., Gorden, J.D., Strickland, J., Frazier, M., Meyers, J. M., Shelton, K.L. "Synthesis, characterization, and biological activities of *N,N'*-bis-substituted triazolium salts." Department of Chemistry, Columbus State University - Oral Presentation, Fall 2018 Faculty Research Conference, Columbus, GA.
61. Shelton, K.L. "Study of Chemical Reactions" Department of Chemistry, The University of Akron, Guest Lecture, Fall 2015, Akron, OH.
62. Shelton, K.L. "Amine Nomenclature, Properties, Reactions, etc." Department of Chemistry, The University of Akron, Guest Lecture, Summer 2015, Akron, OH.
63. Shelton, K.L. "Electrophilic Aromatic Substitutions" Department of Chemistry, The University of Akron, Guest Lecture, Summer 2015, Akron, OH.
64. Shelton, K.L. "Infrared Spectroscopy" Department of Chemistry, The University of Akron, Guest Lecture, Summer 2015, Akron, OH.
65. Shelton, K.L., Wagers, P.O., DeBord, M.A., Southerland, T.M., Panzner, M.J., Tessier, C.A., and Youngs, W.J. "Synthesis and anti-proliferative activity of *N,N'*-bis(arylmethyl)imidazolium salts with lipophilic or hydrophilic substituents on the imidazole and benzimidazole rings." Department of Chemistry, The University of Akron- Oral Presentation, Fall 2015 GSIRC Meeting Cleveland, OH.
66. Shelton, K.L., Wagers, P.O., DeBord, M.A., Southerland, M.R., Williams, T.M., Panzner, M.J., Tessier, C.A., and Youngs, W.J. "Synthesis and anti-proliferative activity of *N,N'*-bis(arylmethyl)imidazolium salts with lipophilic or

hydrophilic substituents on the imidazole and benzimidazole rings." Department of Chemistry, The University of Akron- ACS Poster, Spring 2015 National Meeting Denver, CO.

67. Shelton, K.L., Wagers, P.O., DeBord, M.A., Southerland, M.R., Panzner, M.J., Tessier, C.A., Youngs, W.J. "Synthesis and anti-proliferative activity of *N,N'*-bis(arylmethyl)imidazolium salts with lipophilic or hydrophilic substituents on the imidazole and benzimidazole rings." Department of Chemistry, The University of Akron, Akron, OH - UASIS Oral Presentation, Spring 2015 Meeting.
68. Shelton, K.L., Wagers, P.O., DeBord, M.A., Southerland, M.R., Panzner, M.J., Tessier, C.A., Youngs, W.J. "Synthesis and anti-proliferative activity of *N,N'*-bis(arylmethyl)imidazolium salts with lipophilic and hydrophilic substituents on the imidazole rings." Department of Chemistry, The University of Akron, Akron, OH - ACS MIM Oral Presentation, Spring 2015 Meeting South Euclid, OH.
69. Shelton, K.L., Wagers, P.O., DeBord, M.A., Southerland, M.R., Williams, T.M., Panzner, M.J., Tessier, C.A., Youngs, W.J. "Synthesis and anti-proliferative activity of *N,N'*-bis(arylmethyl)imidazolium salts with lipophilic and hydrophilic substituents on the imidazole and benzimidazole rings." Department of Chemistry, The University of Akron, Akron, OH – Great Lakes Regional Central Meeting – Oral Presentation, Fall 2014 ACS Regional Meeting.
70. Shelton, K.L., Wagers, P.O., Panzner, M.J., Robishaw, N.K., Tessier, C.A., Youngs, W.J. "Synthesis and investigation of substituted *N,N'*-bisnaphthylated imidazolium salts as potential anti-cancer pharmaceuticals." Department of Chemistry, The University of Akron, Akron, OH - UASIS Oral Presentation, Spring 2014 Meeting.
71. Wagers, P.O., Wright, Brian D., Kersten, K.M., Shelton, K.L., Panzner, M.J., Deblock, M.C., Robishaw, N.K., Tessier, C.A., and Youngs, W.J. "Synthesis, characterization, and antitumor activity of imidazolium cation derivatives." Department of Chemistry, The University of Akron- ACS Poster, Spring 2012 National Meeting Philadelphia, PA.
72. Shelton, K.L., Anthony, J. and Parkin, S., "Synthesis and Characterization of Functionalized C-substituted Heteroacenes." Department of Chemistry, University of Kentucky, Lexington, Kentucky – MRS Poster, Spring 2011 Meeting San Francisco, CA.

SERVICE CONTRIBUTIONS

Service to University

- Faculty Senate (COLS Senator), Columbus State University, Spring 2025 – Spring 2028
- COLS Personnel Committee, Chair and Member, Columbus State University, 2024
- Department Instrument Committee, Member, Columbus State University, 2024
- Departmental Personnel Committee, Chair and Member, Columbus State University, 2024
- American Medical Student Association Faculty Advisor, Columbus State University, Fall 2024 – present
- Pre-professional Advisory Committee Chair, Columbus State University, Fall 2024 – present
- Discovery Days, Columbus State University, February 10, 2024
- Discovery Days, Columbus State University, October 14, 2023
- Fall 2023 Writing Boot Camp Program, Columbus State University, October 7, 2023
- Departmental Curriculum Committee, Member, Columbus State University, Fall 2023 - present
- Department Recruitment Committee, Member, Columbus State University, Fall 2023 - present
- COLS Post Tenure Review Committee, Member, Columbus State University, 2023
- COLS Jordan Hall Space Realignment Committee, Member, Columbus State University, 2023
- Discovery Days, Columbus State University, November 14, 2022
- Fall 2022 Writing Boot Camp Program, Columbus State University, October 15, 2022
- Faculty Senate (COLS Alternate Senator), Columbus State University, Spring 2023 – Spring 2024
- University Grants Committee Member, Columbus State University, Fall 2022 – Spring 2023
- Student Research and Creative Endeavors (SRACE) Committee Member, Columbus State University, Fall 2022 – Spring 2023
- Accepted Student Celebration, Columbus State University, April 23, 2022
- 2022-23 Presidential Honors College Scholarship Interview Day, Columbus State University, February 25, 2022
- Discovery Days, Columbus State University, January 29, 2022
- COLS Operations Manual Committee Chair & Member, Columbus State University, Fall 2021 – Spring 2024
- CSU AAC&U HIP Institute/USG HIP Implementation Team, Member, Columbus State University, Spring 2021
- Faculty Senate (COLS Member), Columbus State University, Spring 2022 – Spring 2023
- Discovery Days, Columbus State University, March 6, 2021

- COLS Recruitment, Retention, Progression, and Graduation Committee Secretary & Member, Columbus State University, Spring 2021 – Spring 2023
- Discovery Days, Columbus State University, October 17, 2020
- Faculty Awards Committee Member, Columbus State University, Fall 2020 – Fall 2022
- Student Research and Creative Endeavors (SRACE) Committee Member, Columbus State University, Spring 2020 – Spring 2021
- Discovery Days, Columbus State University, February 15, 2020
- Tower Day Committee Member, Columbus State University, 2020 – 2022
- Scholastic Honors Award Committee Chair, Columbus State University, Fall 2019 – present
- National Scholarship Committee, STEM liaison and Member, Columbus State University, Fall 2019 – present
- Center for Global Engagement Scholarship Committee Member, Columbus State University, 2019 – 2023
- Chemical Hygiene Plan Committee Member, Columbus State University, 2019 – 2023
- COLS Scholarship Committee, Columbus State University, Fall 2018 – Spring 2022
- Pre-professional Advisory Committee Member, Columbus State University, Fall 2018 – present
- Competitive Pre-Med Student Program Departmental Representative, Columbus State University, Fall 2018 – present
- PROWL Volunteer, Columbus State University, Fall 2018
- Department of Chemistry Chair Search Committee Member, Columbus State University, Spring 2018
- Service Leadership Mentor, Columbus State University, Spring 2017, Spring 2019, Spring 2020.
- Noyce Scholar Mentor, Columbus State University, 2017- 2018
- Refresco Beverage Chemistry Scholarship Committee Member, Columbus State University, Fall 2016 – present
- First Lego League Volunteer, Columbus State University, January 2017
- American Chemical Society, Member, Fall 2014 - present
- Undergraduate Programming Committee (UPC), The University of Kentucky, 2010
- Demo Show –National Chemistry Week, The University of Kentucky, Fall 2009 and Fall 2010

Service to Profession

- Chemistry Section Chair, Georgia Academy of Science, Columbus State University, 2025 – 2028
- NSF Reviewer, 2022-present
- ACS MEDI YMCC Mentorship Program, Mentor, American Chemical Society, 2024 – 2025
- L'Oreal Reviewer, 2024-present
- Councilor, Georgia Academy of Science, Columbus State University, 2022 – 2025
- Southwestern Georgia LSAMP Alliance Judge, Columbus State University, Spring 2023
- Louis Stokes Midwest Regional Center of Excellence NSF LSAMP Judge, Columbus State University, Spring 2021
- Louis Stokes Alliance Minority Participation Mentor, Columbus State University, 2019 – present
- Co-adviser, Gamma Sigma Epsilon National Chemistry Honor Fraternity, Chi Delta Chapter, Columbus State University, 2018 – 2023
- Councilor, Georgia Academy of Science, Columbus State University, 2017 – 2020
- Georgia Academy of Science Member, Columbus State University, 2017 – present
- National Chemistry Week Tie Dye, Columbus State University, Spring 2017– present
- Columbus Regional Science and Engineering Fair Judge, Columbus State University, Spring 2017– Spring 2023
- Science Olympiad – Fun Facts, Columbus State University, Spring 2017 and Spring 2018
- Departmental Photographer for ACS-affiliated and CSU Department of Chemistry events, Columbus State University, Fall 2016 – present
- Akron Public Schools – STEM EXPO 2013 Science Fair Judge, The University of Akron, Spring 2013

Service to Community

- Girl Scout Volunteer, 2014 – present

TEACHING EXPERIENCE

COLUMBUS STATE UNIVERSITY – Columbus, GA

Department of Chemistry

Associate Professor

August 2016 – present

Fall 2025

CHEM 1151: Survey of Chemistry 1 (3 credits, 1 section, 52 students)

CHEM 1151L: Survey of Chemistry 1 Lab (1 credit, 4 section, 16 students)

CHEM 3111: Organic Chemistry 1 (3 credits, 1 section, 52 students)

CHEM 3311: Organic Chemistry 1 Lab (1 credit, 2 section, 24 students)

Spring 2025

CHEM 3111: Organic Chemistry 1 (3 credits, 1 section, 30 students)

CHEM 3311: Organic Chemistry 1 Lab (1 credit, 2 section, 21 students)
CHEM 3112: Organic Chemistry 2 (3 credits, 1 section, 24 students)
CHEM 3312: Organic Chemistry 2 Lab (2 credit, 2 section, 21 students)

Fall 2024

CHEM 1152L: Survey of Chemistry 2 Lab (1 credit, 1 section, 16 students)
CHEM 1715: Introductory Chemistry Seminar (1 credit, 1 section, 31 students)
CHEM 3111: Organic Chemistry 1 (3 credits, 1 section, 52 students)
CHEM 3311: Organic Chemistry 1 Lab (1 credit, 2 section, 24 students)
CHEM 3112: Organic Chemistry 2 (3 credits, 1 section, 20 students)
CHEM 3312: Organic Chemistry 2 Lab (1 credit, 1 section, 17 students)
CHEM 4899: Independent Study -Career Readiness (1 credit, 1 section, 1 student)

Spring 2024

CHEM 1152: Survey of Chemistry 2 Lecture (3 credit, 1 section, 28 students)
CHEM 1152L: Survey of Chemistry 2 Lab (1 credit, 1 section, 18 students)
CHEM 3112: Organic Chemistry 2 (3 credits, 1 section, 40 students)
CHEM 3312: Organic Chemistry 2 Lab (2 credit, 2 section, 24 students)
CHEM 4899: Independent Study -Spectroscopic Identification of Organic Compounds (3 credit, 1 section, 1 student)

Fall 2023

CHEM 1152: Survey of Chemistry 2 Lecture (3 credit, 1 section, 23 students)
CHEM 1152L: Survey of Chemistry 2 Lab (1 credit, 1 section, 22 students each)
CHEM 1715: Introductory Chemistry Seminar (1 credit, 1 section, 16 students)
CHEM 3111: Organic Chemistry 1 (3 credits, 1 section, 51 students)
CHEM 3311: Organic Chemistry 1 Lab (1 credit, 2 section, 36 students)

Spring 2023

CHEM 1152: Survey of Chemistry 2 Lecture (3 credit, 1 section, 16 students)
CHEM 1152L: Survey of Chemistry 2 Lab (3 credit, 3 section, 44 students)
CHEM 3112: Organic Chemistry 2 (3 credits, 1 section, 47 students)
CHEM 3312: Organic Chemistry 2 Lab (2 credit, 2 section, 23 students)

Fall 2022

CHEM 1152: Survey of Chemistry 2 Lecture (3 credit, 1 section, 24 students)
CHEM 1152L: Survey of Chemistry 2 Lab (1 credit, 1 section, 21 students each)
CHEM 1715: Introductory Chemistry Seminar (1 credit, 1 section, 23 students)
CHEM 3111: Organic Chemistry 1 (3 credits, 1 section, 63 students)
CHEM 3311: Organic Chemistry 1 Lab (2 credit, 2 section, 44 students)

Spring 2022

CHEM 1152: Survey of Chemistry 2 Lecture (3 credit, 1 section, 22 students)
CHEM 1152L: Survey of Chemistry 2 Lab (2 credit, 2 section, 18 students)
CHEM 3112: Organic Chemistry 2 (3 credits, 1 section, 44 students)
CHEM 3312: Organic Chemistry 2 Lab (2 credit, 2 section, 44 students)

Fall 2021

CHEM 1152: Survey of Chemistry 2 Lecture (3 credit, 1 section, 12 students)
CHEM 1152L: Survey of Chemistry 2 Lab (1 credit, 1 section, 10 students each)
CHEM 1715: Introductory Chemistry Seminar (1 credit, 1 section, 20 students)
CHEM 3111: Organic Chemistry 1 (3 credits, 1 section, 54 students)
CHEM 3311: Organic Chemistry 1 Lab (2 credit, 2 section, 48 students)

Spring 2021

CHEM 1152: Survey of Chemistry 2 Lecture (3 credit, 1 section, 40 students)
CHEM 1152L: Survey of Chemistry 2 Lab (2 credit, 2 section, 20 students each)
CHEM 3112: Organic Chemistry 2 (3 credits, 1 section, 30 students)
CHEM 3312: Organic Chemistry 2 Lab (2 credit, 2 section, 24 students)

Fall 2020

CHEM 1152: Survey of Chemistry 2 Lecture (3 credit, 1 section, 34 students)
CHEM 1152L: Survey of Chemistry 2 Lab (1 credit, 1 section, 18 students each)
CHEM 1212L: Principles of Chemistry 2 Lab (1 credit, 1 section, 25 students each)
CHEM 1715: Introductory Chemistry Seminar (1 credit, 1 section, 21 students)
CHEM 3111: Organic Chemistry 1 (3 credits, 1 section, 54 students)
CHEM 3311: Organic Chemistry 1 Lab (1 credit, 1 section, 24 students)

Spring 2020

CHEM 1152: Survey of Chemistry 2 Lecture (3 credit, 1 section, 40 students)
CHEM 1152L: Survey of Chemistry 2 Lab (1 credit, 1 section, 15 students each)
CHEM 3112: Organic Chemistry 2 (3 credits, 1 section, 18 students)
CHEM 3312: Organic Chemistry 2 Lab (2 credit, 2 section, 24 students)

Fall 2019

CHEM 1151: Survey of Chemistry 1 Lecture (3 credit, 1 section, 74 students)
CHEM 1151L: Survey of Chemistry 1 Lab (1 credit, 1 section, 18 students each)
CHEM 1715: Introductory Chemistry Seminar (1 credit, 1 section, 20 students)
CHEM 3111: Organic Chemistry 1 (3 credits, 1 section, 40 students)
CHEM 3311: Organic Chemistry 1 Lab (2 credit, 2 sections, 20 students each)

Spring 2019

CHEM 1152L: Survey of Chemistry 2 Lab (1 credit, 1 section, 12 students each)
CHEM 3112: Organic Chemistry 2 (3 credits, 1 section, 40 students)
CHEM 3312: Organic Chemistry 2 Lab (2 credit, 2 section, 18 students each)
CHEM 5115U/G: Synthetic Organic Chemistry (3 credit, 1 section, 9 students)

- An introduction to advanced topics in the synthesis of organic molecules. Principles of retrosynthetic analysis will be applied to the synthesis of complex organic molecules, emphasizing control over stereochemistry and the use of protecting groups. Named reactions will be described along with their mechanisms

Honors College

Guest Lecture for HONS 3555: Great Conversations: Historic Problem Solving – Chemical Reactions Associated with Space Shuttle and Propulsion into Space

- Explain and illustrate the chemical reactions associated with propelling the shuttle into space.

Fall 2018

CHEM 1151: Survey of Chemistry 1 Lecture (3 credit, 1 section, 76 students)
CHEM 1211L Honors: Principles of Chemistry 1 Lab (1 credit, 1 section, 24 students)

- Laboratory exercises supplement the lecture materials and develop knowledge of chemical concepts. It includes experiments on density, separation of mixtures, empirical formula; molar mass; acid-base and redox titration, calorimetry, and molecular geometry.
- Honors component explores food science labs focused on key areas of chemistry: mass, volume, density, titration, specific heat and energy.

CHEM 1715: Introductory Chemistry Seminar (1 credit, 1 section, 12 students)
CHEM 3111: Organic Chemistry 1 (3 credits, 1 section, 53 students)
CHEM 3311: Organic Chemistry 1 Lab (2 credit, 2 sections, 25 students each)

Study Abroad – Center of Global Education

Summer 2018 – Session 1

ITDS 1155: The Western Intellectual Tradition (3 credits, 1 section, 1 students)

- Explain and illustrate how the course of history was altered by scientific developments, the growth of intellectual traditions, and the development of formalized education in Europe.
- Identify major moments in the history of western society and the institutions and people that helped shape them, as well as their impact on the modern world today.
- Describe how important moments in western societies like the “scientific revolution” and the “industrial revolution” were allowed to blossom due to the growth of formalized education and scientific innovation.
- Discuss cross-cultural interaction across seemingly “hard” boundaries throughout history, and the similarities and differences which occur across these boundaries.

- Regularly engage with primary sources in many different forms as a means for individual, critical analysis.
- Present their ideas and analysis of evidence in an effective written form.

HONS 3555: Great Conversations: The History of Science (3 credits, 1 section, 1 students)

- Explain and illustrate how the course of history was altered by scientific developments.
- Describe how modern science developed and grew, how it was influenced by the political, social, and moral climate of the countries in which it developed, and how it altered these societies.
- Show how the role and character of science, chemistry, has changed over the past millennium.
- Analyze cultural interaction across seemingly "hard" boundaries throughout world history and scientific fields, identifying similarities and differences which occur across these boundaries.
- Emphasize the many forms in which "history" can reside, and a general competency concerning developments (and problems) in the field of historiography.
- Present their ideas and analysis of evidence in an effective written and oral form.

Spring 2018

CHEM 1152: Survey of Chemistry 2 Lecture (3 credit, 1 section, 40 students)

CHEM 1152L: Survey of Chemistry 2 Lab (1 credit, 2 section, 12 students each)

CHEM 3112: Organic Chemistry 2 (3 credits, 1 section, 36 students)

CHEM 3312: Organic Chemistry 2 Lab (2 credit, 2 section, 12-15 students each)

Fall 2017

CHEM 1715: Introductory Chemistry Seminar (1 credit, 1 section, 12 students)

CHEM 3111: Organic Chemistry 1 (3 credits, 1 section, 53 students)

CHEM 3311: Organic Chemistry 1 Lab (2 credit, 2 sections, 25 students each)

CHEM 5115: Spectroscopic Identification of Organic Compounds (3 credit, 1 section, 15 students)

- A systematic study of spectroscopic methods and techniques for identification of small and large organic compounds. Applications of Mass, Infrared, ultraviolet/Visible, and Nuclear Magnetic Resonance spectroscopy for the identification and characterization of organic compound

Spring 2017

CHEM 1211L: Principles of Chemistry 1 Lab (1 credit, 1 section, 24 students)

CHEM 1715: Introductory Chemistry Seminar (1 credit, 1 section, 12 students)

- New Course Preparation purposed for undergraduate chemistry majors
- Identify essential resources for research in the field of chemistry
- Describe the global impact and interdependence of the chemistry disciplines to careers, such as industry and academia
- Critically examine how to prepare notebooks and identifying key features to accurately and ethically recording information, chemical structures, methodology, and evidence in a laboratory setting
- Develop and refine career planning documents to help transition undergraduate student into the job-field and research environment
- Demonstrate the ability to effectively communicate the relevance of chemistry to the real world by producing a career presentation and building interpersonal relationships with the CSU research faculty

CHEM 3112: Organic Chemistry 2 (3 credits, 1 section, 42 students)

CHEM 3312: Organic Chemistry 2 Lab (2 credit, 2 section, 18 students each)

Fall 2016

CHEM 1211L: Principles of Chemistry 1 Lab (1 credit, 1 section, 24 students)

CHEM 3111: Organic Chemistry 1 (3 credits, 1 section, 53 students)

CHEM 3311: Organic Chemistry 1 Lab (2 credit, 2 sections, 25 students each)

PROFESSIONAL DEVELOPMENT

- USG Mental Health Training, Columbus State University, August 26, 2024
- Core Course Design Institute Teaching Mentor, Columbus State University, Fall 2024 – Fall 2025
- 2024 Women in Leadership Mentorship Program, January 2024-June 2024
- Powerful Communication: Powerful Communication Harnessing Effective Techniques to Enhance Your Style, CSU, February 22, 2023
- Impact Leadership Conference 2022, December 7, 2022
- National Computational Science Institute (NCSI): Computational Chemistry for Chemistry Educators (CCCE) workshop, June 2022

- Possible Selves Training - Louis Stokes Alliances for Minority Participation, CSU, April 8, 2022
- Picture a Scientist Campus Viewing and Panel Discussion, Columbus State University, April 6, 2022
- SoTL Panel Discussion, Columbus State University, March 31, 2022
- Young Chemistry Committee (YCC): Leader Development, American Chemical Society (ACS), March 20, 2021
- YCC: Developing Communication Strategies, American Chemical Society (ACS), January 13, 2021
- YCC: Fostering Development, American Chemical Society (ACS), January 12, 2021
- YCC Leader Development, American Chemical Society (ACS), January 9-10, 2021
- Attendance at 2020 NIH Day in Columbus, GA, Columbus State University (CSU), November 13, 2020
- Possible Selves Training - Louis Stokes Alliances for Minority Participation, CSU, September 24, 2020
- Faculty Writing Fellows Program, Columbus State University, 2020-2021
- 2019 CSU Welcome Week: Creativity & Innovation Forum, Columbus State University, August 6, 2019
- Attendance at 2019 NIH Grant Writing Conference in Baltimore, MD, Columbus State University, May 16-17, 2019
- "New Faculty Seminar" Participant, Columbus State University, Fall 2016 – Spring 2017

UNDERGRADUATE STUDENT MENTORSHIP

Department of Chemistry

- Advisor to Chemistry Students
 - Autumn Forsythe (2024 – present)
 - Emily Knox (2023 – present)
 - Aproova Kollaram (2023 – present)
 - Gabriela Miele (2023 – present)
 - Meghan Koh (2023 – present)
 - Nhi T. Phan (2023 – present)
 - Zuzanna Rudenko (2023 – present)
 - Tiffany Golden (2022 – present)
 - Asharia Minter (2023 – 2024)
 - Maddison Montgomery (2022 – 2024) – Mercer University Medical School
 - Emma Mann (2022)
 - Keenishea Story (2022 – 2023)
 - Keagan Gallagher (2021 – 2023) - Refresco
 - Katie Powell (2021 – 2023)
 - Dominic Fico (2021 – 2022)
 - Kaitlyn Stringfellow (2021 – 2022)
- Mentor to Honor's Thesis
 - Cydnee Harrison (2022)
 - ZiJie Lin (2020 – 2021) – Indiana University
- Mentor to Senior Thesis
 - Presley Simmons (2023 – 2024)
 - Caitlin Parker (2022 – 2024) – Refresco, Inc.
 - Harris Carlisle (2021 – 2023) – Auburn University
 - Destini Thornton, NSF LSAMP (2021-2022) – Auburn University
 - Mason Hale (2020 – 2021) – Texas A & M
 - Isabelle Rodriguez, NSF LSAMP (2019 – 2021) – Texas A & M
 - Shyrisse Ramos, NSF LSAMP (2019 – 2021) – University of Florida
 - Dominic Fico (2018 – 2022) – Auburn University
- Mentor for Undergraduate Research Students
 - Autumn Forsythe (2025 – present)
 - Victoria Hardy (2025 – present)
 - Julia Wise (2025 – present)
 - Christina Wise (2025 – present)
 - Isaiah Anderson (2024 – present)
 - Tara Clarkson (2024 – present)
 - Natalya Dove, NSF LSAMP (2024)
 - Alyssa Schmitz (2023 – present)
 - Presley Simmons (2023 – 2024)
 - Jeremy Byrom, LSAMP (2023)
 - Cassidy Fine (2022 -present)
 - Lance Crane (2022 – 2024) – VCOM

- Caitlin Parker (2022 -2024) – Refresco, Inc.
- Alisha Kennedy, NSF LSAMP (2022 – 2023)
- Katie Powell (2022 – 2023)
- Nevaeh Davis (2022 – 2023)
- Courtney Devera (2022 – 2023) – UAB Dentistry Program
- Cydnee Harrison (2022)
- Alexandria White, NSF LSAMP (2021-2022) – Georgia Southern
- Rahul Clamor, NSF LSAMP (2021 – 2023)
- Harris Carlisle (2021 – 2023) – Auburn University
- Destini Thornton, NSF LSAMP (2021-2022) – Auburn University
- Mason Hale (2020 – 2021) – Texas A & M
- Kenya Isller, NSF LSAMP (2020)
- Imani Rogers (2020)
- Isabelle Rodriguez, NSF LSAMP (2019 – 2021) – Texas A & M
- Shyrisse Ramos, NSF LSAMP (2019 – 2021) – University of Florida
- Jordan Spires (2019 – 2020) – Columbus State University Nursing Program
- Luke Martz (2017-2019) – Auburn University
- Szantana Johnson (2019 – 2020)
- Trevion Turnipseed (2019 – 2020)
- Dominic Fico (2018 – 2022) – Auburn University
- ZiJie Lin, Barry Goldwater/Oxford Visiting Scholar (2016 – 2021) – Indiana University
- Jared Bies (2016-2017) – VCOMM Medical School

Service to Outside Departments

- Second Reader on Senior Research Paper, Department of Biology
 - Rakylia Martin, Frazier (2023 – 2024)
 - Nevaeh Davis, Frazier & Taylor (2022 – 2023)
 - Havahna Wilkes, Frazier (2022)
 - German Andres Tovar, Frazier (2019 - 2020) – Auburn University Pharmacy School
- Second Reader for Honors Thesis
 - Megan Brenner (2023) – Columbus State University, Department of Chemistry
 - Ian Becerra (2023) – Columbus State University, Department of Chemistry
 - Cassi Caughey (2022) – Columbus State University, Department of Earth, Space and Science (ESS)
 - Stephanie Thompson (2022) – Columbus State University, Department of Earth, Space and Science
 - Julie Wilson (2019 – 2020) – Columbus State University, Department of Biology
 - Jared Bies (2017) – Columbus State University, Department of Chemistry
- Servant Leadership Dialogue Partner
 - Samuel Van Horn (2020) – University of Georgia Pharmacy

GRADUATE STUDENT MENTORSHIP

Department of Chemistry

- India Winston (2016 – 2017) - HPPE

Service to Outside Departments

- Alisha Kennedy (2023 – present) – Columbus State University, MSNS, Biology concentration
- Kari Goodwin (2021 – 2022) – Columbus State University, MSNS, Biology concentration
- Julie Wilson (2020 – 2022) – Columbus State University, MSNS, Biology concentration

OUTSIDE STUDENT MENTORSHIP

- Co-Mentor for Medical Research Students
 - Lynsey Elaine Young, Mercer University (2023 – 2024)
 - Bowen Kenneth Powers, Mercer University (2022 – 2023)
 - Meenal Manish Joshi, Mercer University (2022 – 2023)

EXTERNAL PROFESSIONAL MENTORSHIP

Core Course Design Institute Teaching Mentor, Columbus State University, Fall 2024 – Fall 2025

American Chemical Society Medicinal Chemistry Young Medicinal Chemists Committee (ACS MEDI YMCC)

- Mckinzie Thatcher (undergraduate student), UC San Diego, mcthatcher@ucsd.edu, 2024 – present
- Piotr Michałowski (graduate student), Poznan Uni of Tech, piotr.michalowski@doctorate.put.poznan.pl, 2024 – present

2024 Women in Leadership Mentorship Program

- Neetu Sharma (university colleague), MacEwan University, sharman52@macewan.ca, January 2024-June 2024

STUDENT TESTIMONIALS

" Dr. Taylor is an enthusiastic, helpful, and brilliant teacher who truly wants her students and mentees to succeed. She has always been willing to put her students and mentees before her own needs. She has always helped me and my colleagues reach our academic goals. I wholeheartedly suggest Dr. Taylor for this award. "

" It is hard to put into words Dr. Taylor's amount of dedication and love that she has for all of her students, especially the research students. She goes way above and beyond what any faculty member is requested to do and is constantly keeping in touch, reaching out at all hours of the day to make sure we have everything we need in order to do our best. Her passion for chemistry and research is unmatched in my opinion. It is something she does purely because she loves it and even more than that she loves watching her students succeed far beyond her. Dr Taylor picked me up in my first semester, not having any idea about research, and brought be on board her team into an important research project. She said that she knew I had it in me and knew I would do amazing at it. I had yet to even take a chemistry class but she taught me everything I needed to know and helped me hit the ground running. She called me at 12:34 AM one time when I was freaking out because I thought I had ruined the project and encouraged me, giving me words of confirmation and encouragement that gave me the push I needed to keep going. That is only one instance, she does that sort of thing all the time. Dedication. "

REFERENCES

Available upon request.