

Sean Stokes

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Education

Doctor of Philosophy. Mississippi State University. 2012. Dissertation: "Studies Related to the Synthesis of Chromane- and Quinoline-based Heterocycles."

Master of Science. The University of Alabama in Huntsville. 2007. Thesis: "Cruzain Inhibitory Activity of Cloudforest Natural Products from Monteverde, Costa Rica."

Bachelor of Science. The University of Alabama in Huntsville. 2004.

Employment

Associate Clinical Professor. Mississippi State University, Chemistry Department.
2024 – present.

Assistant Clinical Professor. Mississippi State University, Chemistry Department.
2018 – 2024.

Instrument Manager/Instructor. Mississippi State University, Chemistry Department.
2014 – 2017.

Instructor. Mississippi State University, Chemistry Department.
2012 – 2014.

Awards & Accomplishments

College of Arts & Sciences Teaching Award in Natural & Physical Sciences and Mathematics & Statistics. April 11, 2024. Mississippi State University, College of Arts & Sciences.

Completed "Intentional Course Design and Assessment" as part of Maroon Academy for Teaching Excellence. December 13, 2023. Mississippi State University, Center for Teaching and Learning.

Completed "Active Learning for Student Engagement" as part of Maroon Academy for Teaching Excellence. December 13, 2023. Mississippi State University, Center for Teaching and Learning.

Outstanding Non-Tenure Track Faculty. Awarded April 22, 2022. Mississippi State University, Chemistry Department, Chemistry Graduate Student Association.

Outstanding Non-Tenure Track Faculty. Awarded April 16, 2021. Mississippi State University, Chemistry Department, Chemistry Graduate Student Association.

Most Outstanding Faculty Member. Awarded April 25, 2019. Mississippi State University, Chemistry Department, Chemistry Graduate Student Association.

MSU Alumni Association Early Career Teaching Award – Nominee. Nominated October 9, 2018. Mississippi State University, Chemistry Department.

Most Outstanding Faculty Member. Awarded April 19, 2018. Mississippi State University, Chemistry Department, Chemistry Graduate Student Association.

Most Outstanding Faculty Member. Awarded April 21, 2017. Mississippi State University, Chemistry Department, Chemistry Graduate Student Association.

Honors Council Teaching Award. Awarded April 1, 2017. Mississippi State University, Shackouls Honors College.

Most Outstanding Faculty Member. Awarded April 29, 2015. Mississippi State University, Chemistry Department, Chemistry Graduate Student Association.

Departmental Service Award. Awarded April 24, 2013. Mississippi State University, Chemistry Department.

Publications

36. Adhikari, B.; Raju, S.; Awoyemi, R. F.; Donnadieu, B.; Wipf, D. O.; Stokes, S. L.; Emerson, J. P. Synthesis and Characterization of Symmetrical *N*-Heterocyclic Carbene Copper(II) Complexes – An Investigation of the Influence of Pyridinyl Substituents. *Molecules* **2024**, *29*, 3542. DOI: 10.3390/molecules29153542
35. Rodrigo, P. M.; Navarathna, C. M.; Bullard, B. N.; Hoffman, B. R.; Venson, B. L.; Honigfort, H.; Timmons, G. L.; Montes, M. L.; Thirumalai, R. V. K. G.; Stokes, S.; Pittman Jr., C. U.; Mlsna, T. E. Aqueous Arsenic(V) Remediation and Redox Transformation of Arsenic(III) to Arsenic(V) Using Fe₃O₄/Douglas fir Biochar. *Journal of Cleaner Production* **2024**, *455*, 142254. DOI: 10.1016/j.jclepro.2024.142254
34. Teimouri, M.; Raju, S.; Acheampong, E.; Schmittou, A.N.; Donnadieu, B.; Wipf, D.O.; Pierce, B.S.; Stokes, S.L.; Emerson, J.P. Aminoquinoline-Based Tridentate (NNN)-Copper Catalyst for C–N Bond-Forming Reactions from Aniline and Diazo Compounds. *Molecules* **2024**, *29*, 730. DOI: 10.3390/molecules29030730
33. Sharma, M.; Perkins, A. M.; Awoyemi, R. F.; Schmittou, A. N.; Raju, S.; Pierce, B. S.; Donnadieu, B.; Wipf, D. O.; Stokes, S. L.; Emerson, J. P. Three water-soluble copper(II) *N*-heterocyclic carbene complexes: toward copper-catalyzed ketone reduction under sustainable conditions. *Dalton Transactions* **2024**, *53*, 3180-3190. DOI: 10.1039/d3dt03406b
32. Raju, S.; Teimouri, M.; Adhikari, B.; Donnadieu, B.; Stokes, S. L.; Emerson, J. Copper–complexes for Chemoselective *N*-arylation of Arylamines and Sulfanilamides via Chan-Evans-Lam Cross-Coupling. *Dalton Transactions* **2023**, *52*, 15986-15994. DOI: 10.1039/d3dt02659k
31. Lakavathu, M.; Lee, J. E.; Srinivasarao, M.; Cutright, A. J.; Raju, S.; Stokes, S. L.; Emerson, J. P.; Kim, J. H. Cu-Catalyzed Cross-Coupling reactions of Enamines and Terminal Alkynes: Access of Propargylamines as Neurodegenerative Disorder Agents. *Asian Journal of Organic Chemistry* **2023**, e202300375. DOI: 10.1002/ajoc.202300375.
30. Adhikari, B.; Teimouri, M.; Akin, J. W.; Raju, S.; Stokes, S. L.; Emerson, J. Cu-NHC Complex for Chan-Evans-Lam Cross-Coupling Reactions of *N*-Heterocyclic Compounds and Arylboronic Acids. *European Journal of Organic Chemistry* **2023**, *26*, e202300620. DOI: 10.1002/ejoc.202300620.
29. Cutright, A. J.; Mohanna, T. A.; Matthews, E. L.; Aulds, J. M.; Thornton, J. A.; Stokes, S. L.; Emerson, J. P. Calorimetric analysis of AdcR and its interaction with zinc(II) and DNA. *Journal of Inorganic Biochemistry* **2023**, *247*, 112305. DOI: 10.1016/j.jinorgbio.2023.112305.
28. Masaeli, S. E.; Teimouri, M.; Adhikari, B.; Attarroshan, M.; Akin, J. W.; Raju, S.; Stokes, S. L.; Emerson, J. P. Sodium Trifluoroacetate mediated Copper-Catalyzed aza-Michael addition of α,β -unsaturated olefins with aromatic amines. *Tetrahedron Letters* **2023**, *102*, 154520. DOI: 10.1016/j.tetlet.2023.154520.
27. Sharma, M.; Perkins, A. M.; Duckworth, A. K.; Rouse, E. J.; Donnadieu, B.; Adhikari, B.; Stokes, S. L.; Emerson, J. P. Nickel(II) *N*-Heterocyclic Carbene Complex for the Hydrogenation of 2-Acetylpyridine under Mild Conditions. *Inorganics* **2023**, *11*, 120. DOI: 10.3390/inorganics11030120.

26. Navarathna, C. M.; Pray, H.; Rodrigo, P. M.; Arwenyo, B.; McNeely, C.; Reynolds, H.; Hampton, N.; Lape, K.; Roman, K.; Heath, M.; Stokes, S.; Gunatilake, S. R.; Ariunbold, G.; Perez, F.; Thirumalai, R. V. K. G.; Hassan, E. B.; Elsayed, I.; Mohan, D.; Brown, A.; Moore, D.; Reichley, S.; Lawrence, M.; Mlsna, T. E. Microplastics and Per- and Polyfluoroalkyl Substances (PFAS) Analysis in Sea Turtles and Bottlenose Dolphins along Mississippi's Coast. *Analytica* **2023**, 4, 12-26. DOI: 10.3390/analytica4010003.
25. Das, N. K.; Navarathna, C. M.; Alchouron, J.; Arwanyo, B.; Rahman, S.; Hoffman, B.; Lee, K.; Stokes, S.; Anderson, R.; Perez, F.; Mohan, D.; Pittman Jr., C. U.; Mlsna, T. Efficient aqueous molybdenum removal using commercial Douglas fir biochar and its iron oxide hybrids. *Journal of Hazardous Materials* **2023**, 443, 130257. DOI: 10.1016/j.jhazmat.2022.130257.
24. Rodrigo, P. M.; Navarathna, C.; Pham, M. T. H.; McClain, S. J.; Stokes, S.; Zhang, X.; Perez, F.; Gunatilake, S. R.; Karunanayake, A. G.; Anderson, R.; Thirumalai, R. V. K. G.; Mohan, D.; Pittman Jr., C. U.; Mlsna, T. E. Batch and fixed bed sorption of low to moderate concentrations of aqueous per- and poly-fluoroalkyl substances (PFAS) on Douglas fir biochar and its Fe₃O₄ hybrids. *Chemosphere* **2022**, 308, 136155. DOI: 10.1016/j.chemosphere.2022.136155.
23. Raju, S.; Sheridan, P. E.; Hauer, A. K.; Garrett, A. E.; McConnell, D. E.; Thornton, J. A.; Stokes, S. L.; Emerson, J. Cu-Catalyzed Chan-Evans-Lam Coupling reactions of 2-Nitroimidazole with Aryl boronic acids: An effort toward new bioactive agents against *S. pneumoniae*. *Chemistry & Biodiversity* **2022**, 19, e202200327. DOI: 10.1002/cbdv.202200327.
22. Elder, S.; Roberson, J. G.; Warren, J.; Lawson, R.; Young, D.; Stokes, S.; Ross, M. K. Evaluation of Electrospun PCL-PLGA for Sustained Delivery of Kartogenin. *Molecules* **2022**, 27(12), 3739. DOI: 10.3390/molecules27123739.
21. Sharma, M.; Adhikari, B.; Awoyemi, R. F.; Perkins, A. M.; Duckworth, A. K.; Donnadieu, B.; Wipf, D. O.; Stokes, S. L.; Emerson, J. P. Copper(II) NHC Catalyst for the Formation of Phenol from Arylboronic Acid. *Chemistry* **2022**, 4(2), 560-575. DOI: 10.3390/chemistry4020040.
20. Pitre, D.; Stokes, S.; Mlsna, D. Development of an at-Home Chemistry Lab Experience for Survey of Organic Chemistry Students. *Journal of Chemical Education* **2021**, 98(7), 2403-2410. DOI: 10.1021/acs.jchemed.0c01262.
19. Rahman, S.; Navarathna, C. M.; Das, N. K.; Alchouron, J.; Reneau, P.; Stokes, S.; Thirumalai, R. V. K. G.; Perez, F.; Hassan, E. B.; Mohan, D.; Pittman Jr., C. U.; Mlsna, T. High-Capacity Aqueous Phosphate Reclamation using Fe/Mg-Layered Double Hydroxide (LDH) dispersed on Biochar. *Journal of Colloid and Interface Science* **2021**, 597, 182-195. DOI: 10.1016/j.jcis.2021.03.114.
18. Wolgemuth, D. K.; Elmore, S. D.; Cope, J. D.; Sheridan, P. E.; Stokes, S. L.; Emerson, J. P. Manganese-Catalyzed Aziridination of Olefins with Chloramine-T in Water and Buffered Solutions. *Catalysis Communications* **2021**, 150, 106275. DOI: 10.1016/j.catcom.2020.106275.
17. Cope, J. D.; Sheridan, P. E.; Galloway, C. J.; Awoyemi, R. F.; Stokes, S. L.; Emerson, J. P. Synthesis and Characterization of a Tetradentate, N-Heterocyclic Carbene Copper(II) Complex and Its Use as a Chan-Evans-Lam Coupling Catalyst. *Organometallics* **2020**, 39(24), 4457-4464. DOI: 10.1021/acs.organomet.0c00552.
16. Cope, J. D.; Valle, H. U.; Hall, R. S.; Riley, K. M.; Goel, E.; Biswas, S.; Hendrich, M. P.; Wipf, D. O.; Stokes, S. L.; Emerson, J. P. Tuning the Copper(II)/Copper(I) Redox Potential for More Robust Copper-Catalyzed C-N Bond Forming Reactions. *European Journal of Inorganic Chemistry* **2020**, (14), 1278-1285. DOI: 10.1002/ejic.201901269.
15. Valle, H. U.; Riley, K. M.; Russell, D. E.; Wolgemuth, D. K.; Voges-Haupt, C. F.; Rogers, A. T.; Redd, S. L.; Stokes, S. L.; Emerson, J. P. Synthesis, Characterization and Structure of a [Cu(phen)₂(OTf)]OTf Complex: An Efficient Nitrogen Transfer Pre-catalyst. *ChemistrySelect* **2018**, 3(18), 5143-5146. DOI: 10.1002/slct.201800588.

14. Hillesheim, P. C.; Scipione, K. A.; Stokes, S. L. Crystal Structure of (3-carboxypropyl) triphenylphosonium hexafluoridophosphate. *Acta Crystallographica Section E* **2014**, 70(11), o1197-o1198. DOI: 10.1107/S160053681402323X.
13. Stokes, S.; Mead, K. T. Synthesis of Aryl-Substituted Quinolines from *N*-Tosyl-1-Azadienes. *Synthetic Communications* **2013**, 43(19), 2627-2633. DOI: 10.1080/00397911.2012.726388.
12. Stokes, S.; Mustain, R.; Pickle, L.; Mead, K. T. Rhodium-Catalyzed Cyclopropanations of 2-Aryl-2*H*-Chromenes with Dialkyl Malonate Esters. A Comparison of α -Diazo Derivatives and Phenyliodonium Ylides. *Tetrahedron Letters* **2012**, 53, 3890-3893. DOI: 10.1016/j.tetlet.2012.05.061.
11. Stokes, S.; Bekkam, M.; Rupp, M.; Mead, K. T. Synthesis of Aryl-Substituted 1,4-Dihydroquinolines by [4+2] Cycloaddition of Benzyne with 1-Azadienes. *Synlett* **2012**, (3), 389-392. DOI: 10.1055/s-0031-1290137.
10. Stokes, S.; Spears, B.; Laseter, C.; Barker, B.; Mead, K. T. γ -Lactonization of 2*H*-Chromenes via Cyclopropanation. *Tetrahedron Letters* **2010**, 51, 4003-4006. DOI: 10.1016/j.tetlet.2010.05.059.
9. Cakir, S. P.; Stokes, S.; Sygula, A.; Mead, K. T. Evidence for π -Stacking as a Source of Stereocontrol in the Synthesis of Core Pyranochromene Ring System common to Calyxin I, Calyxin, J, and Epicalyxin J. *Journal of Organic Chemistry* **2009**, 74, 7529-7532. DOI: 10.1021/jo901436u.
8. Setzer, W. N.; Park, G.; Agius, B. R.; Stokes, S. L.; Walker, T. M.; Haber, W. A. Chemical Compositions and Biological Activities of Leaf Essential Oils of Twelve Species of *Piper* from Monteverde, Costa Rica. *Natural Product Communications* **2008**, 3, 1367-1374. DOI: 10.1177/1934578x0800300823.
7. Haber, W. A.; Agius, B. R.; Stokes, S. L.; Setzer, W. N. Bioactivity and Chemical Composition of Leaf Essential Oil of *Talauma gloriensis* Pittier (Magnoliaceae) from Monteverde, Costa Rica. *Records of Natural Products* **2008**, 2, 1-5.
6. Agius, B. R.; Setzer, M. C.; Stokes, S. L.; Walker, T. M.; Haber, W. A.; Setzer, W. N. Composition and Bioactivity of Essential Oils of Lauraceae from Monteverde, Costa Rica. *International Journal of Essential Oil Therapeutics* **2007**, 1, 167-171.
5. Stokes, S. L.; Cole, R. A.; Haber, W. A.; Setzer, W. N. Cruzain Inhibitory Activity of the Leaf Essential Oil from an Undescribed Species of *Eugenia* from Monteverde, Costa Rica. *Natural Product Communications* **2007**, 2, 1211-1213. DOI: 10.1177/1934578x0700201203.
4. Setzer, W. N.; Stokes, S. L.; Penton, A. F.; Takaku, S.; Haber, W. A.; Hansell, E.; Caffrey, C. R.; McKerrow, J. H. Cruzain Inhibitory Activity of Leaf Essential Oils of Neotropical Lauraceae and Essential Oil Components. *Natural Product Communications* **2007**, 2, 1203-1210. DOI: 10.1177/1934578x0700201202.
3. Agius, B. R.; Vogler, B.; Stokes, S. L.; Setzer, W. N.; Caffrey, C. R.; Hansell, E.; McKerrow, J. H. Inhibition of Cruzain by Triterpenoids Isolated from a *Salacia* Species from Monteverde, Costa Rica. *Natural Product Communications* **2007**, 2, 1083-1084. DOI: 10.1177/1934578x0700201105.
2. Setzer, W. N.; Stokes, S. L.; Bansal, A.; Haber, W. A.; Caffrey, C. R.; Hansell, E.; McKerrow, J. H. Chemical Composition and Cruzain Inhibitory Activity of *Croton draco* Bark Essential Oil from Monteverde, Costa Rica. *Natural Product Communications* **2007**, 2, 685-689. DOI: 10.1177/1934578x0700200613.
1. Setzer, W. N.; Takaku, S.; Stokes, S. L.; Penton, A. F. Inhibition of Cruzain by *Ocotea* Leaf Essential Oils from Monteverde, Costa Rica. *Pharmacologyonline* **2006**, 3, 785-793.

Proposal/Grant Submissions

Submitted: Unsymmetrical CuNHC complexes and related hybrid catalysts toward sustainable N-H insertion reactions, Co-PI, **2024**, \$790,607, NSF Cat.

Declined: Improving Student Engagement in General and Organic Chemistry through Kahoot! PI, **2024**, \$2800, Otilie Schillig Special Teaching Projects, Center for Teaching and Learning.

Accepted: Green Chemistry Catalysis: Unleashing Metal Magic for Sustainable Reactions. PI, **2024**, \$1000, ORED Undergraduate Research Program.

Accepted: Inhibition of catADAMTS-5 by Punicalagin and Related Derivatives. Co-I, **2023**, \$3657, Arts & Sciences Strategic Research Initiative.

Declined: Unsymmetrical CuNHC and Hybrid Catalysts for Selective and Sustainable Transformations. Co-I, **2023**, \$484,115, NSF MPS-CAT.

Declined: Dithiocarbamates for Perturbing Zinc(II) Regulation in *S. pneumoniae*. Co-I, **2023**, \$1,417,289, NIH R01.

Accepted: Acquisition of a High-Resolution Quadrupole Time-of-Flight Mass Spectrometer with Diverse Inlet and Ionization Capabilities for Chemical Analysis. Co-I, **2023**, \$1,060,279, NSF MRI Track 1 (CHE-2319939).

Accepted: Developing Environmentally Friendly Biosynthetic Routes to Synthesize Aerospace-Grade Monomers and Their Precursors. Co-I, **2022**, \$224,158, Air Force Research Lab: Minority Leaders Research Collaboration Program (FA8650-20-2-5853).

Declined: Zinc Dependent Conformational Changes in AdcR and Their Impact on DNA binding and *S. pneumoniae* viability. Co-I, **2021**, \$ 1,402,452, NIH R01.

Declined: IGE LEAD Leadership, Entrepreneurship for Added Diversity. Co-I, **2020**, \$366,145, NSF IGE.

Declined: *N*-Heterocyclic Carbene Copper(II) Complexes with Hemilabile Ligands for Selective CEL Coupling Reactions. Co-I, **2020**, \$392,448, NIH R15.

Accepted: Conformational Dynamics of the Zinc(II) Binding Site of AdcR and Its Role in DNA Binding. Co-I, **2020**, \$830,641, MSU NIH COBRE (P20GM103646).

Declined: Creating New Bioactive Compounds Based on 2-Nitroimidazole and Carbendazim using CEL Coupling Reactions. Co-I, **2020**, \$6100, Arts & Sciences Strategic Research Initiative.

Accepted: New Bioactive Molecules from Imidazole and Benzimidazole-Based Compounds. Co-I, **2020**, \$2000, ORED Undergraduate Research Program.

Accepted: Identifying Trace Elements and Isotopic Signatures Across Skeletal Elements in an Animal Model. Co-I, **2020**, \$5,275, Arts & Sciences Strategic Research Initiative.

Declined: Mononuclear Copper(II) Complexes for C-N Bond Forming Reactions. Co-I, **2019**, \$110,000, ACS-PRF.

Declined: Tuning the Electronic Structure of Copper(II) Complexes for *N*-atom Transfer Chemistry. Co-I, Submitted Mar. 18, **2019**, \$110,000, ACS-PRF.

Declined: Copper(II) Based DNA Hybrid Catalyst for Aqueous Asymmetric Transformations. Co-I, **2018**, \$479,130, NSF MPS-CAT.

Accepted: Spectroscopy Interpretation for Undergraduate Organic Students: A Writing Approach Supporting the University Maroon and White Initiative. Co-I, **2015**, \$3720, MSU 2015 Schillig Special Teaching Projects Program.

Accepted: Spectroscopy Interpretation and Chemical Interpretation using Calibrated Peer Review. Co-I, **2014**, \$5000, MSU 2014 Schillig Special Teaching Projects Program.

Posters & Presentations

- Stokes, S., Rupp, M., Mead, K. T. Presentation: "Synthesis of Aryl Substituted 1,4-Dihydroquinolines using a [4+2] Cycloaddition." Lester S. Andrews Chemistry Symposium. 2011. Starkville, MS.
- Stokes, S., Rupp, M., Mead, K. T. Poster: "Synthesis of 1,4-Diaryl-1,4-dihydroquinolines using a [4+2] Cycloaddition." Southeastern Chemistry Chairs Meeting. 2011. Starkville, MS.
- Stokes, S., Spears, B., Laseter, C., Barker, B., Mead, K. T. Poster: "γ-Lactonization of 2*H*-Chromenes via Cyclopropanation." Southeastern Chemistry Chairs Meeting. 2011. Starkville, MS.
- Stokes, S. L., Cakir, S.P., Mead, K. T. Presentation: "The Influence of π Stacking on the Stereochemistry of Phenolic Constituents of *Alpinia Blepharocalyx*." 60th Southeastern Regional Meeting of the American Chemical Society. 2008. Nashville, TN.
- Stokes, S. L., Setzer, W. N. Presentation: "Cruzain Inhibitory Activity of Cloudforest Natural Products from Monteverde, Costa Rica." Partnership for Biotechnology Research: 9th Annual Fall Bioretreat. 2007. Huntsville, AL.
- Stokes, S. L., Setzer, W.N. Poster: "Synergistic Effects of Essential Oil Components: Inhibition of Cruzain." Society for Economic Botany: 48th Annual Meeting. 2007. Chicago, IL.
- Stokes, S. L., Takaku, S., Penton, A. F., Setzer, W. N. Poster: "Cruzain Inhibitory Activity of Leaf Essential Oils from Neotropical Lauraceae." Society for Economic Botany: 48th Annual Meeting. 2007. Chicago, IL.
- Stokes, S. L., Penton, A. F., Setzer, W. N. Poster: "Bioactive Screening of Costa Rican Plant Extracts to Fight Chagas' Disease." 1st Annual UAH-COS Student Conference. 2006. Huntsville, AL.
- Stokes, S. L., Penton, A. F., Setzer, W. N. Poster: "Bioactive Screening of Costa Rican Plant Extracts to Fight Chagas' Disease." Partnership for Biotechnology Research: 8th Annual Fall Bioretreat. 2006. Huntsville, AL.

Mississippi State University Academic Service

- Physicians on the Rise Advisor. 2014-current.
- Chemistry Department Inventory Co-Coordinator. 2014-current.
- Chemistry Department Undergraduate Curriculum Committee Member. 2019 & 2023-current.
- Chemistry Department Scholarship Committee Member. 2017 & 2023-current.
- Chemistry Department Instrument Committee Member. 2013, 2015-2019 & 2023-current.
- Chemistry Department Undergraduate Advisor. 2013-2022.
- Bill Henry Memorial Golf Tournament Committee Member. 2018-2019.
- Chemistry Department Space & Planning Committee Member. 2018-2022.
- Chemistry Department Alumni Engagement Committee. 2020-2022.
- Chemistry Department Alumni Engagement Chair. 2019.
- Student Affiliates of the American Chemical Society (SAACS) Advisor. 2012.
- Student Affiliates of the American Chemical Society (SAACS) Co-Advisor. 2013-2014.
- Chemistry Department Instrument Committee Chair. 2014 & 2020-2022.

Graduate Student Committee Membership

- Daniel Wolgemuth – MS Student – PI: Joseph Emerson – Graduated 2019
- Sydnee Elmore – MS Student – PI: Joseph Emerson – Graduated 2019
- Maggie Leake – PhD Student – PI: Deb Mlsna – Graduated 2022
- Dexin Liu – MS Student – Coursework – Graduated 2022
- Kyle Carter – MS Student – Coursework – Graduated 2023
- Alex Cutright – PhD Student – PI: Joseph Emerson – Graduated 2024
- Prashan Rodrigo – PhD Student – PI: Todd Mlsna – Graduated 2024

- Max Wamsley – PhD Student – PI: Dongmao Zhang – Graduated 2024
- Azeezat Faderera Abdulraheem – MS Student – PI: Todd Mlsna – Graduated 2024
- Amanda Perkins – MS Student – PI: Joseph Emerson – Graduated 2025
- Miguel Angel Cabrera-Briseno – PhD Student – PI: Vicky Montiel-Palma
- Jayamini Hewage – PhD Student – PI: David Wipf
- Hashani Abeysinghe – PhD Student – PI: Todd Mlsna
- Katie Power – PhD Student – PI: Joseph Emerson
- Bhupendra Adhikari – PhD Student – PI: Joseph Emerson
- Mohsen Teimouri – PhD Student – PI: Joseph Emerson
- Mahshid Attarroshan – PhD Student – PI: Joseph Emerson

Coursebooks & Lab Manuals Authored

CH 4523 Organic Chemistry II Coursebook. MSU Chemistry Department. 2019-current.
 CH 4513 Organic Chemistry I Coursebook. MSU Chemistry Department. 2018-current.
 CH 4521 Organic Chemistry II Lab Manual. MSU Chemistry Department. 2014-current.
 CH 4511 Organic Chemistry I Lab Manual. MSU Chemistry Department. 2014-current.
 CH 2501 Elementary Organic Chemistry Lab Manual. MSU Chemistry Department. 2014-current.

Lectures & Labs Taught

Mississippi State University

CH 1211 General Chemistry I Lab
 CH 1213 General Chemistry I
 CH 1221 General Chemistry II Lab
 CH 1223 General Chemistry II
 CH 2501 Elementary Organic Chemistry Lab
 CH 2503 Elementary Organic Chemistry
 CH 4000 Directed Individual Study: Practical Mass Spectrometry
 CH 4511 Organic Chemistry I Lab
 CH 4513 Organic Chemistry I
 CH 4521 Organic Chemistry II Lab
 CH 4523 Organic Chemistry II
 CH 4554 Integrated Organic Chemistry I
 CH 4564 Integrated Organic Chemistry II
 CH 8990 Special Topics: Organic Spectroscopy

University of Alabama in Huntsville

CH 125 General Chemistry Lab I
 CH 126 General Chemistry Lab II
 CH 335 Organic Chemistry Lab I
 CH 336 Organic Chemistry Lab II