OLUWATOBI O. ODELEYE

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oluwatobi.odeleye@mail.wvu.edu Chemistry, Morgantown, WV, 26506 PROFESSIONAL APPOINTMENTS West Virginia University, Morgantown, WV Assistant Professor, Department of Chemistry 2022 - present University of Oklahoma, Norman, OK Assistant Professor, Department of Chemistry and Biochemistry Director of General Chemistry 2017 - 2022 **EDUCATION** South Dakota State University, Chemistry May 2017 PhD Dissertation: "The relationship between recollection, knowledge transfer, and student attitudes towards chemistry" Advisor, Matt Miller MS Eastern Michigan University, Chemistry Dec 2013 Thesis: "The relationship between students' definitions of chemistry and the way they view the discipline" Advisor: Amy Flanagan Johnson BS Eastern Michigan University, Chemistry May 2011 Graduated Cum Laude Minored in Mathematics HONORS AND AWARDS Mixture Modeling Training for Discipline-Based Education Researchers 2023 An NSF-funded fellowship **Association of College and University Educators (ACUE)** 2023 Micro-credential in Creating an inclusive and supportive learning environment. West Virginia University Center for Faculty Excellence, Faculty Fellow 2021 University of Oklahoma NSF Quantitative, Computational and Mixed Methodologies Scholar 2021 One of 35 selected scholars across the US

West Virginia University, Department of

First-Year Student Mentoring Program Outstanding Mentor A University of Oklahoma	ward 2020
Graduate Teaching Certificate of Highest Excellence South Dakota State University	2015
Logue Graduate Student Academic Award South Dakota State University	2014
Graduate Teaching Certificate of Highest Excellence South Dakota State University	2014
EMU Chemistry Department Teaching Assistant Award Eastern Michigan University	2013
TEACHING EXPERIENCE	
West Virginia University	
Assistant Professor	
CHEM 593A Chemistry Education Methods and Practice	2024 – present
- Sp24, 7 students	
CHEM 115 (General Chemistry 1)	2022 – present
Fa22, 260 studentsSp23, 120 students	
University of Oklahoma	
Assistant Professor	
CHEM 1305 (Fundamentals of General Chemistry)	2020 - 2022
- Fa20, 13 students; Sp21, 24 students, Fa21, 15 students	
CHEM 1315 (General Chemistry 1)	2017 – 2022
- Fa17, 329 students; Sp18, 465 students; Fa18, 548 students; Sp19 students	
CHEM 1415 (General Chemistry 2)	2020 - 2022
- Sp20, 421 students, Sp21, 108 students, Fa21, 350 students	

CHEM 5001 (Practicum in Chemical Education – Graduate Course) 2019 - 2022

- Fa19, 27 students; Fa20, 11 students, Fa21, 22 students

RESEARCH ASSOCIATES

Graduate Students

Diya Tang	Sept 2019 – present
Nghiem Tieu	March 2022 – present
Oluwaseun Agunbiade	Aug 2023 – present
Courtney Glenn	Nov 2022 – May 2024
Makenzie Border	Dec 2022 – May 2024
Shenaly Perera	Sept 2022 – Dec 2023
Anthony Vassalotti	Nov 2022 – May 2023
Leena Nabulsi	Jan 2019 – May 2022
Baylee Lacy	August 2021 – Dec 2021

Undergraduate Students

Elina Heydari	Jan 2022 – May 2022
Joseph Manfredo	Dec 2021 – May 2022
John Bui	Dec 2020 – Dec 2021
Thomas Deppong	Dec 2020 – May 2021
Parsa Lessani	Dec 2020 – May 2021
Wambui (Anne) Gachunga	Oct 2018 – May 2020
Amy Nguyen	May 2018 – Dec 2019
Ginny (Jiyoon) Kim	Oct 2018 – Dec 2019
Danielle Safo	May 2018 – May 2019
Joseph Teter	Jan 2019 – May 2019
Cassie Lawson	Jan 2018 – June 2018

PUBLICATIONS

Books/Book Chapter

- 1. **Odeleye, O.O.** The adventures of a first-year teaching emphasis instructor. In *Chemistry Student Success: A Field-Tested, Evidence-Based Guide.* March 25th, 2020.
- 2. Asanov, E., Jackson, K, **Odeleye, O.**, Henderson, H., Harris, H and Hubbard, N. *Lightening the Load? Advancing Equity in the Workplace Theater Scripts Volume 1*. Accepted, February, 2024.

Journal Publications

1. Glenn, Courtney D.*, and **Odeleye, O. O.** Exploring Factors within an Introductory

^{*}indicates corresponding author, <u>underlined</u> indicates undergraduate student, and *italicized* indicates graduate student.

Course that Influence Students' Perception of Chemistry, *Chemistry Education Research and Practice*, 2024. West Virginia University. DOI: https://doi.org/10.1039/D4RP00008K

2.

- 3. *Tang*, *D*.* and **Odeleye**, **O**. Students' Perceptions on the Impact of Online Homework Systems on their Performance in a General Chemistry Course, *Journal of Science Education and Technology*, **32**, 710-721, 2023, West Virginia University. DOI: https://doi.org/10.1007/s10956-023-10061-0
- 4. **Odeleye, O***, <u>Lessani, P and Tang, D. Evaluating the Experiences of Different Identity Groups in a General Chemistry Course, *Journal of Chemical Education*, 2022, West Virginia University. https://doi.org/10.1021/acs.jchemed.2c00480</u>
- 5. *Nabulsi*, *L** and **Odeleye**, **O**. Student Attitudes Toward Two Different Online Homework, *Journal of Education and Practice*, pp 29–40, 2021, University of Oklahoma. DOI: 10.7176/JEP/12-6-03
- 6. *Nabulsi*, *L**, <u>Nguyen</u>, <u>A</u>., & **Odeleye**, **O**. The Impact of Traditional- and Adaptive-Responsive Online Homework Systems on Student Performance in General Chemistry: Analyzing Extra Credit Participation. *Journal of Education and Practice*, pp 20 –28, 2021, University of Oklahoma. DOI: 10.7176/JEP/12-6-02
- 7. *Nabulsi*, *L.*, Nguyen, A. & **Odeleye**, **O***. A Comparison of the Effects of Two Different Online Homework Systems on Levels of Knowledge Retention in General Chemistry Students. *Journal of Science Education and Technology*, 1–9. Oct 15th, 2020. https://doi.org/10.1007/s10956-020-09872-2

Journal Manuscript in Review

- Burch, Charmita, Hammonds-Odie, Latanya and Odeleye, Oluwatobi, Reasons Biology Majors Withdraw from Introductory STEM Courses through the Lens of Students and Instructors, *submitted to Journal of Biology Education*

PRESENTATIONS AND INVITED LECTURES

Invited Lectures

- "Towards Equity in STEM Fields: What role does General Chemistry Play?". West Virginia University, Morgantown, WV, October 15th, 2021
- "An exploration of student attitudes towards two different online homework systems used in a general chemistry course", Eastern Michigan University, Ypsilanti, MI, April 12th, 2021
- "Innovation and Creativity in STEM Teaching and Learning", Lead City University, Ibadan, Nigeria, July 2019

Presentations

1. Odeleye, O. *Impact of a Forum for Chemistry and Math Introductory Course Instructors – a Professional Development Model.* Poster presentation at the National

- Association for Research in Science Teaching (NARST) 2024 Conference, Dever, CO, March 2024.
- 2. **Odeleye, O**, Lessani, P., and Tang, D. *General Chemistry Students' Perceptions and Attitudes towards Science: Through the lens of different identity groups*. Poster presentation at the Institute in Critical, Quantitative, Computational, and Mixed Methodologies Conference, Baltimore, MD, March 2022
- 3. Tang, D., **Odeleye. O.** *Students' perceptions towards homework of general chemistry* 1315 at University of Oklahoma. Accepted Poster Presentation, Biennial Conference on Chemical Education (BCCE), 2020.
- 4. Nabulsi, L., **Nguyen, A.**, and Odeleye, O. *Relationship of traditional and adaptive-responsive online homework systems to student performance in general chemistry:*Analyzing extra credit participation. Poster presentation at the ACS Midwest Regional Meeting, Wichita, KS, October 2019.
- 5. **Gachunga, A. W**. and Odeleye O. O. *Comparative analysis of ALEKS and Sapling as a general chemistry course homework system*. Poster presentation at the ACS Midwest Regional Meeting, Wichita, KS, October 2019. (Poster was selected as a Sci-Mix presentation, which represents the best of the posters submitted under the division).
- 6. **Nabulsi, L**; Nguyen, A, and Odeleye, O. *Comparison of the effects of two different online homework systems on levels of knowledge retention and attitudes of general chemistry students*. Oral presentation at the ACS Midwest Regional Meeting, Wichita, KS, October, 2019.
- 7. Nabulsi, L; Nguyen, A, and **Odeleye, O.** *Adaptive vs Traditional Homework Systems: Is there truly a difference?* Poster presentation at the Gordon Research Conference on Chemistry Education Research, Lewiston, Maine, June 2019
- 8. Odeleye, O. O. *Adventures of a first-year teaching-emphasis educator*. Paper presented at Biennial Conference on Chemical Education. South Bend, IN. July 2018
- 9. Odeleye, O. O. *The relationship between students' attitudes and their abilities to transfer knowledge about intermolecular forces.* Paper presented at Biennial Conference on Chemical Education. Greeley, CO. August 2016
- 10. Odeleye, O. O., and Johnson, A.F. "I don't like chemistry because..." How do students' definitions of chemistry influence their attitudes towards the discipline? Paper presented at Biennial Conference on Chemical Education. Allendale, MI. August 2014
- 11. Odeleye, O. O., and Johnson, A.F. "School chemistry vs. real chemistry: An investigation of students' definitions and views of chemistry" Paper presented at the 246th American Chemical Society National Meeting. Indianapolis, IN. March, 2013.
- 12. Odeleye, O. O., and Johnson, A. F. "The relationship between students' definition of chemistry and their attitude towards the discipline" Paper presented at Eastern Michigan University's Graduate Research Fair. Ypsilanti, MI. March, 2013
- 13. Odeleye, O. O., and Johnson, A.F. "Factors that influence students' attitudes towards chemistry" Paper presented at the Central Region of the American Chemical Society. Dearborn, MI. June, 2012.

FINANCIAL SUPPORT

- 09/2022 08/2024 The Chemistry and Mathematics Introductory Large-Enrollment Courses Forum
 - Source: National Science Foundation
 - o Award (Amount): NSF-DUE #2232453 (\$99,273)
 - o Role: PI

Pending Funding

- Collaborative Research: BCSER: Mathematics and Chemistry Partnering Regional Institutes in Education Research (Math-Chem PRISER)
 - o Source: National Science Foundation
 - o Role: PI
 - o Amount: \$647,973
- Challenging the Status Quo: Investigating the effects of implementing social-psychological modules in introductory STEM courses on students from underrepresented racial groups
 - o Source: National Science Foundation
 - o Role: PI
 - o Amount: \$542,674
- Investigating the effects of a modified general chemistry curriculum on the performance and mindset of students in general chemistry
 - o Source: National Science Foundation
 - o Role: PI
 - o Amount: \$258,272

Prior Funding

• N/A

SERVICE

West Virginia University

- 1. Lectures and Colloquium committee Member Department of Chemistry (August 2023 present)
- 2. Undergraduate Recruiting and Tours Committee Department of Chemistry (August 2023 present)
- 3. Undergraduate Outstanding Publications Committee (March 2023)
- 4. Eberly Connections: Equity Informed Teaching (Feb 2023)
 - Panelist alongside 3 other faculty members discussing how we use equity-informed practices in our teaching.
- 5. Graduate Studies Committee member Department of Chemistry (August 2022 present)
- 6. Outreach Committee Member Department of Chemistry (August 2022 August 2023)

University of Oklahoma

- 7. Provost's Advisory Committee on Women's Issues (PACWI) University of Oklahoma (August 2020 2022)
- 8. College of Arts and Sciences Executive Committee member University of Oklahoma (August 2020 2022)
- 9. Pre-Med/Pre-dental interview committee member University of Oklahoma (2019 2022)
 - Provided support for students during their application to medical school.
- 10. Girl Scout Badge University Panelist (Nov 2018)
 - Was on a panel with five other women in various STEM fields and spoke to girls (2nd – 10th grade) about our experiences as women in STEM fields.

Professional Service

- 1. NSF Reviewer 2022
- 2. Manuscript reviewer for the following journals: Journal of Chemical Education, Teaching and Teacher Education, JACS Au, and MDPI Education Sciences
- 3. Co-editor for ACS Symposium Book Series *Chemistry Student Success: Case Studies for New Educators.* (July 2019 2020)
- 4. ACS Books reviewer (2018)
 - Reviewed a manuscript for the following book series: "Technology Integration in Chemistry Education and Research (TICER)"
- 5. Big Sioux Water Festival (2014-2016)
 - Worked with Dr. Matt Miller at SDSU to provide demonstrations for elementary school children in the area.
- 6. Boy Scouts Chemistry Merit Badge (2015 -2016)
 - Worked with boy scouts to provide assistance in completing various experiments required for their chemistry merit badge
- 7. Eastern South Dakota Science and Engineering Fair (2016)
 - Judged middle school chemistry projects.