

Grants/Awards Funded

Associate Professor

1. Innovative Prototype Grant through the Georgia Foundation for Public Education: **PRESS** Promoting a Rural Essential and Sustainable STEM partnership through High Impact Practices, PI, with PI Dr. Mahabaduge, CoPI. Dr. Kang; 2023 – 2024, \$25,000.
2. The National Academies of Sciences Engineering Medicine - Education: Okefenokee 2 Ocean: Understanding Real world Relevance through Suwanee Watershed Assessment and Monitoring Project, **CoPI/Senior Personnel**, with PI: Dr. Lacey Huffling; CoPIs: -Dr. Scott, H.; Dr. Aslan, A.; Dr. Colongaud, C., Fall 2023 – 2026, \$465,335.
3. Georgia Research Alliance, Georgia Tech, Vertically Integrated Projects @ Georgia Southern University, **PI**, 2021-2023, \$25,000

Assistant Professor

4. USG's Affordable learning Georgia - Textbook Transformation Grant, No cost option for Forensic Chemistry i-CURE course, **PI** with CoPI: Drs. Ghosh, Sargent 2021-2022, \$20,000.
5. USG's Affordable learning Georgia - Textbook Transformation Grant, Low cost ancillary material for Organic Chemistry, **PI** with PI: Dr. Whitlock, CoPIs: Drs. Shaikh, Aiken, Carroll, 2021-2022, 2023 (No Cost Extension) \$30,000.
6. **NSF-IUSE**, “Measuring Chemistry-Specific Mindset Beliefs of Students in Undergraduate Chemistry Courses”; **Consultant**; (PI: Dr. Suazette Mooring), **2021-2024**, \$272,619.00.
7. **USG’s STEM IV**: “Faculty-Student Learning Communities to enhance academic mindset and undergraduate research opportunities for first-year students”, **Senior Personnel**, (PI: Dr. Delana A. Gajdosik-Nivens; CoPI: Dr. Brian Koehler; Senior Personnel: Kania Greer, Drs. Saha, Ramoutar, Mateer), **2019-2021**, \$ 150,000, (\$50,000/year for three years)
8. **Faculty Development Committee Award**: Utilizing “Implementing High Impact Practices in Organic Chemistry I course – Guided Worksheet”, **PI**, **2021**, \$2490
9. **COSM Excellence Mini-Grants**, Getting to Know You- GTA Orientation, **Co-PI**, (PI: Prof. Jessica Orvis, Co-PIs: Drs. Ghosh, Narendrapurapu, Osborne, Padgett), **2021**, \$2,400.
10. **USG's Affordable learning Georgia - Continuous Improvement Grant**, Remote Mentoring of Undergraduate Research Student, **PI**, (CoPI: Drs. Shaikh, A.; Sargent, E.; **2020-2021**, \$10,000.
11. **Faculty Research Seed Grant Proposal (Engineering)**, “Effect of Hygrothermal aging on the fracture toughness of epoxy-halloysite and epoxy-silica nanocomposites” **Co-PI**, with (PIs Dr. Koricho, E.), Fall **2020-2021**, \$8,000.
12. **NSF-MRI** – Acquisition of a High-Resolution Mass Spectrometer (HRMS) for Interdisciplinary Research and Teaching in the Southeast Region of Georgia, **CoPI**, (PI: Dr. Nathaniel Shank; CoPIs:- Drs. Guillet, Shen, Weiland, Stewart, Zingales, Carter, Quillian, McKenas), **2020-2023**, \$383,398
13. Faculty Research Committee for the **Internal Seed Funding Award**, “Cyclic Sugar-Nitrogen Containing Drug Conjugate to Target Copper Overloading Disorders” **Co-PI**, with (PI Dr. Debanjana Ghosh), Spring **2020-2021**, \$8,905.

14. Awarded the "iCURE Workshop" at Arizona State University", **Spring 2020**, \$250 supplies and travel (*travel canceled due to COVID and virtual workshop attended 2021*).
15. **USG's Affordable learning Georgia** - Textbook Transformation Grant, **PI** with PI: Christine Whitlock, **2020-2021**, \$10,800.
16. **Cope Scholar Symposium in honor of Dr. Seth Marder**: Development of Organic Semiconductor Materials, sponsored by DOC – ACS and SERMACS 2019, **Fall 2019**, **PI**, \$3000.
17. **Advancements in Microwave Chemistry"** sponsored by CEM corporation and SERMACS 2019, **Fall 2019**, **PI**, \$2600.
18. **COSM Summer Research Session (SRS)**, **PI**, "Synthesize of various transition metal embedded ligands supported on nanostructured clay on oxidation reactions", **Summer 2019**, \$ 3000.00.
19. **USG's Affordable learning Georgia** - Textbook Transformation Grant. Proposal # 461, **PI**, (PI: Christine Whitlock; CoPI: Drs. Aiken, DiCesare, Quirino, Schanz, Shaikh), **Spring 2019**, \$21,400.
20. **STEM College of Education Research Seed Grant** - Planned Progressive Pathway (P³): Increasing freshman student participation in conducting research, **Co-PI**, (PI Dr. Meca Williams-Johnson and Co-PI Dr. Arpita Saha), **Spring 2019**, \$ 5500.
21. **USG STEM Initiative Funding**: Active Learning or Teaching Innovation Grant, **PI**, (CoI: Prof. Jessica Orvis; Drs. Ghosh and Narendrapurapu), **Spring 2019**, \$ 4375.
22. **Gulf Research Capacity Building Grant** - Education: Okefenokee - Understanding Real-world Relevance through Suwannee Watershed Assessment and Monitoring Project (OUR2SWAMP), **CoPI**, with PI: Dr. Lacey Huffling; CoPIs: -Dr. Scott, H. Dr. Greer, K.; Dr. Colongaud, C., **Fall 2018-2021**, \$763,897.00
23. **NSF-REU**: Collaborative Multidisciplinary Investigations Through Undergraduate Research Experiences (**CEMITURE**), **Senior Personnel**, with PI: Dr. Karelle Aiken and CoPI: Dr. Ria Ramoutar, **Spring 2018-2021**, \$ 280,056.
24. **USG STEM Initiative Funding**: Active Learning or Teaching Innovation Grant, **PI**, (CoI: Prof. Jessica Orvis), **Fall 2018**, \$ 2,500
25. **Sustainability Fee Award**, **PI** (CoI: Dr. Abid Shaikh), **Fall 2018-19**, \$ 10,023
26. Faculty Research Committee for the **Internal Seed Funding Award**, **PI**, with (Co-PI's Dr. Karelle Aiken and Dr. Debanjana Ghosh), **Fall 2017-18**, \$ 9408.00.
27. Collaboration with STEM institute - i²STEM^e - Project India, **PI**, **Fall 2018**, \$500.00
28. Collaboration with STEM institute - i²STEM^e - Project India, **PI**, **Fall 2017**, \$500.00

Lecturer

29. Faculty Development Committee Summer Award for the project: Utilizing "Implementing Light-Board Lectures and Video Recording Techniques in Organic Chemistry", **Fall 2017**, \$1500
30. Lightboard Project Proposal by College of Online Learning, **PI**, **Fall 2016**, \$500.00.
31. College of Science and Mathematics Research Award Statesboro, GA, **PI**, **Fall 2016**, \$1000.00
32. Orion Efficacy Study, Wiley Publisher, **PI**, **Spring 2016**, \$ 2000.00.
33. Institute for Interdisciplinary STEM Education i²STEM^e, Complex Adaptive System (CAS) Pilot Projects – GC Simulation, **PI** (with Dr. Karelle Aiken), **Spring 2015**, \$ 500.00

34. Scholarship of Teaching and Learning Fellowship Award for Incorporation of Molecular Simulation Program to Improve Students' Understanding in Gas Chromatography Laboratory, **2015 – 2016**, \$3000.00
35. Faculty Development Committee Summer Award for the project: Utilizing “Interactive Teaching Techniques” in an Organic Chemistry Course, **Summer 2015**, \$3000.00
36. NSF-REU: Collaborative Multidisciplinary Investigations Through Undergraduate Research Experiences (**CEMITURE**), **Senior Personnel**, with PI: Dr. Karelle Aiken, **Fall 2014**, **\$270,000.00**
37. College of Science and Mathematics Research Award Statesboro, **PI, Fall 2014**, \$1000.00
38. Faculty Research Committee for the **Internal Seed Funding Award**, **CoPI**, with (PI Prof. Jessica Orvis and CoPI Diana Botnaru), **Fall 2014-15**, \$8915.00
39. Faculty Development Committee Grants for the Development of Instruction: Interactive Teaching Methods to Engage Students through Responsive Learning – Organic Chemistry, **PI** with Mr. Santanu Majumdar and Dr. Diana Botnaru, **Fall 2013**, \$ 1000.00
40. Secured funding for CEM Discover Labmate Microwave **Fall 2013**, \$ 8500.0 **Sources**:
 - o University Honors Program; (\$ 3000.00)
 - o College Office of Undergraduate Research; (\$ 2500.00)
 - o Individual Faculty Awards;(\$ 2000.00)
 - o Department of Chemistry. (\$ 1000.00)
41. College of Science and Mathematics Research Award Statesboro, **PI, Fall 2012**, \$1000.00

Pending Grants/Awards

1. NSF-REU: Collaborative Multidisciplinary Investigations Through Undergraduate Research Experiences (**CEMITURE**), **Professional Development Lead/Senior Personnel/Mentor**, with PI: Dr. Seacrest, **Fall 2023**, \$395,247.
2. NSF-REU: Characterization and Quality Assessment for Advanced Manufacturing. **Professional Development Lead/Senior Personnel/Mentor**, with PI: Dr. Kardel, **Fall 2023**, \$440,126.
3. **National Institutes of Health** - Advanced Materials and Manufacturing, “A Novel Method Coupling Pyridazine Antivirals and Biodegradable Nanoparticles”, PI: Dr. Carter with **CoPI**: Dr. Landge, 2024-2027, \$423,182.50.
4. NSF - **MRI**: “Acquisition of a 600 MHz Solution NMR to Improve Structural Analytical Capabilities in Coastal Georgia for Research, Training, and Education”, PI: Dr. Dela-Cerna, **Senior Personnel**: Dr. Landge, 2024-2027, \$1,389,706.
5. NSF-DUE-S-STEM, “Improving Mentee Progression in Academic and Career Tracks in STEM (IMPACTS)”; **CoPI**; (PI: Dr. Sara Gremillion with Co-PI's: Dr. Tuyin An, Dr. Dragos Amarie, Dr. Kathlyn Smith; **2024**. Requested \$1,999,849.
6. **USG's** Affordable learning Georgia - **Research** Grant, “Investigation of Student Outcomes and Resource Usage of OER Resource Materials”, PI: Dr. Whitlock with **CoPI**: Drs. Landge, Williams, Prof. Cannon-Rech, Ms. Walker, 2023-2024, \$6,000.
7. Innovative Prototype Grant through the Georgia Foundation for Public Education (**GFPE**): Vertical and Horizontal Expansion of Promoting a Rural Essential and Sustainable STEM (**PRESS**) Partnership through High Impact Practices, **PI**, with PI Dr. Mahabaduge, CoPI. Dr. Kang; 2024 – 2025, \$50,000.

Grants/Awards Not Funded

2023

- 1) **Impact Accelerator Grant:** Effective Viral Pathogen Countermeasure Involving pH-Dependent Micellar Nanoparticles Encapsulating Novel Pyridazine Compounds, **CoPI** with PI Dr. James Carter, 2023 - 2024, \$35,200.
- 2) **USG's Affordable learning Georgia - Research Grant**, “Effectiveness of blended learning with Open Education Resource to increase Student Engagement in Organic Chemistry I course”, **PI** with CoPI: Drs. Whitlock, Narendrapurapu, Williams, Prof. Cannon-Rech, Mr. Mortimore, Ms. Walker, 2023-2024, \$10,000.
- 3) **USG's Affordable learning Georgia - Textbook Transformation Grant**, “No cost option for the First Year Experience - Introduction to STEM research – Vertically Integrated Projects (FYE-1220-VIP)”, **PI** with CoPI: Dr. Williams, Profs. Orvis, Cannon-Rech, Mr. Mortimore, Ms. Walker, 2023-2024, \$20,000.