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**Position Title:** Assistant Professor  
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Education and Training

| Degree and Area of Study                                            | Institution Name   | Degree Date |
|---------------------------------------------------------------------|--------------------|-------------|
| Ph.D. Environmental Toxicology                                      | Texas Southern U   | 2009        |
| M.S. Chemistry                                                      | Prairie View A&M U | 1996        |
| B.S. Chemistry (Benjamin<br>Banneker Honors College<br>Certificate) | Prairie View A&M U | 1993        |

Research and Professional Experience

| Position Title                          | Institution Name          | Position Dates |
|-----------------------------------------|---------------------------|----------------|
| Assistant Professor                     | Prairie View A&M          | 2018-Pres      |
| Adjunct Assistant Professor             | Prairie View A&M          | 2013-2018      |
| K-12 Substitute                         | Castle Hills Schools      | 2012           |
| Alternate Administrator                 | MaxMed Healthcare         | 2007-2010      |
| Organic Extractions and G.C.<br>Analyst | Southern Petroleum Labs   | 1998-2001      |
| Graduate Research Assistant             | Texas Southern University | 2004-2006      |
| Teaching/Instructional Assistant        | Texas A&M University      | 1996-1998      |
| Graduate Research Assistant             | Prairie View A&M          | 1993-1996      |
| Undergraduate Research<br>Assistant     | Prairie View A&M          | 1990-1993      |

Publications

- Abreu, J. B., Soto, J. E., Ashley-Facey, A., Soriaga, M. P., Garst, J. F., & Stickney, J. L. (1998). The Interfacial Chemistry of the Grignard Reaction: The Composition of the Film Formed on Air-Exposed Magnesium. *Journal of Colloid and Interface Science*, 206(1), 247–251. <https://doi.org/10.1006/JCIS.1998.5681>
- Ashley-Oyewole, A. (2016). Improving Texas Home Healthcare Waste Management Policies and Practices: The Role of the Environmental Toxicologist. *American International Journal of Contemporary Research*, 6(5), 14–20. [http://www.aijcrnet.com/journals/Vol\\_6\\_No\\_5\\_October\\_2016/2.pdf](http://www.aijcrnet.com/journals/Vol_6_No_5_October_2016/2.pdf)
- Ashley-Oyewole, A. (2021). Endangered Element Vanadium: Can the Texas Oil and Gas Sector Provide it a Sustainable Future? *International Journal of Applied Science and Technology*, 11(1), 1–8.
- Benvenuto, M. & Kosmas, S. (2022). Green Chemistry: and UN Sustainability Development Goals. In S. Benvenuto, Mark Anthony; Kosmas (Ed.), *Green Chemistry* (Series 9:, pp. 81–

94). De Gruyter. <https://doi.org/10.1515/9783110723960>

Liu, Y., Sulaiman, H. F., Johnson, B. R., Ma, R., Gao, Y., Fernando, H., Amarasekara, A., Ashley-Oyewole, A., Fan, H., Ingram, H. N., & Briggs, J. M. (2023). QM/MM study of N501 involved intermolecular interaction between SARS-CoV-2 receptor binding domain and antibody of human origin. *Computational Biology and Chemistry*, 102, 107810. <https://doi.org/10.1016/J.COMPBIOLCHEM.2023.107810>

Oyewole, Andrea; Sapp, John; Wilson, Bobby, & Oyewole, O. (2014). Potential Risks from Home Healthcare -Generated Municipal Solid Waste in Texas. *International Journal of Business, Humanities and Technology*, 4(3), 6–12. [http://www.ijbhtnet.com/journals/Vol\\_4\\_No\\_3\\_May\\_2014/2.pdf](http://www.ijbhtnet.com/journals/Vol_4_No_3_May_2014/2.pdf)

Oyewole, Andrea; Wilson, Bobby; Conley, Felicia; Thomas, R. (2014). The Effects of Copper, Manganese, and Vanadate Mixtures on Caco-2 Cell Cultures: A Case for the Precautionary Principle. *International Journal of Business, Humanities, and Technology*, 4(2), 10–14. [https://ijbhtnet.com/journals/Vol\\_4\\_No\\_2\\_March\\_2014/2.pdf](https://ijbhtnet.com/journals/Vol_4_No_2_March_2014/2.pdf)

### Synergistic Activities

- ACS GC&E 2023 Conference Advisory Committee member [Green Chemistry & Engineering Conference Advisory Committee \(gcande.org\)](https://www.gcande.org/)
- Advisor to Chemistry Club (2015-pres)
- Faculty Senator (2020-22)
- Department of Chemistry Task Stream Program Assessment Team Member (2020)
- Member of the Committee on Nominations of the Comprehensive Colleges and Universities Constituency Group for Sigma Xi (2020)
- PVAMU Department of Chemistry Beyond Benign Green Chemistry Commitment Team Coordinator (2020)
- Beyond Benign, ACS, GCI Leadership Committee, and Project Team Member (2020)
- Department of Chemistry Green Chemistry Course Coordinator (2020)
- Department Chemistry Curriculum Committee Member (2019)
- Department of Chemistry Cosmetic Chemistry Curriculum Design Team (2019-22)
- Department of Chemistry Student Engagement Committee Member
- Undergraduate Science Education Task Force Co-Chair for the Enhance Student Academic Success Committee (2019)
- ORISP - Undergraduate Research Council Member PVAMU (2019-pres)

### Additional Training/Skills

- Circular Economy - Sustainable Materials Management - Ghent University, VITO, Lund University, Delft University of Technology, Geological Survey of Denmark and Greenland, National Technical University of Athens, EIT RawMaterials, Issued Jan 2024. Credential ID 57QRGSCJDQHB (Coursera)

- EdX Verified Certificate a course of study offered by SDGAcademyX. Issued August 12, 2023, Title: Cities and the Challenge of Sustainable Development, Certificate ID: <https://courses.edx.org/certificates/5070bedf0005496da33a1d89f1fb8e6f>
- EdX Verified Certificate a course of study offered by SDGAcademyX. Issued August 9, 2023, Title: Climate Change: The Science and Global Impact, Certificate, Valid ID: <https://courses.edx.org/certificates/0be285a0cbe544a09551538ab3e40cde>
- EdX Verified Certificate a course of study offered by SDGAcademyX. Issued June 24, 2023, Title: Measuring Sustainable Development, Certificate, Valid ID: <https://courses.edx.org/certificates/d32613cb547e43ea98eaf0d6dd0ac3c6>
- Coursera Course Certificate Title: Global Health Diplomacy, May 9, 2023. Course ID <https://www.coursera.org/account/accomplishments/certificate/E3B4PQADTQCG>
- Coursera Course Certificate Title: Global Energy and Climate Policy, August 28, 2022. Course ID K5JR4TJJ28CE, <https://www.coursera.org/account/accomplishments/certificate/K5JR4TJJ28CE>
- US EPA Small Water Systems Monthly Webinar Series, “Water Security” Certificate for Attendance (One Contact Hour) June 28, 2022
- US EPA Small Water Systems ACS GC&E Monthly Webinar Series, “Lead Service Lines” Certificate for Attendance (One Contact Hour) May 24, 2022
- Select Science One-hour webinar and Q&A certificate of attendance, “Weighing Masterclass: A Comprehensive run-through of the Basics of Weighing, May 18, 2022, presented by Christian Weidner Sartorius Lab Instruments.
- US EPA Small Water Systems Monthly Webinar Series, “Source Water Protection and Algal Blooms” Certificate for Attendance (One Contact Hour) April 26, 2022
- US EPA Small Water Systems Monthly Webinar Series, “Underground Storage Tanks Preparing and Responding to Extreme Events” Certificate for Attendance (One Contact Hour) April 13, 2022
- Coursera Course Certificate Title: The Sustainable Development Goals – A Global, transdisciplinary vision for the Future, March 2021, Course ID J6PA9DD8NL4Q
- Coursera Course Certificate Title: Essentials of Global Health Course Certificate, March 2021, Certificate ID HNNA2AYBRUC
- Coursera Course Certificate Title: Beyond the Sustainable Development Goals (SDGs): Addressing Sustainability and Development, February 2021, Course ID FSPNCWBWF53C
- Coursera Course Certificate Title: Chemicals and Health Course Certificate July 28, 2020, Course ID V3PNH2ZL3MZL
- Glass Expansion and CEM Webinar, Title: “Tips and Tricks: Simple Solutions for the ICP Laboratory,” Certificate of Attendance, September 23, 2020
- Project Management Foundations: Requirements, LinkedIn Course, September 2020
- US EPA Small Water Systems Monthly Webinar Series, “Drinking water Microbes 101” Certificate for Attendance (One Contact Hour) May 19, 2020
- Clery Act Basic Certificate PVAMU April 7, 2020
- Certificate of Completion – “How to Use Interactive Lecturing as Pedagogy of Engagement” (Online) October 3, 2019.
- Certificate of Completion – 40-hour Crime Scene Investigations Training PVAMU, August 2, 2019.

- Continuing Education Certificate (10 CEUs) – “STEM Women of Color Conclave/STEM Leadership Academy” Fielding Graduate University/Society of STEM Women of Color, June 2019.
- Certificate of Completion, for One Contact Hour, EPA’s Small System Monthly Webinar Series: Source Water Protection, June 26, 2018, Approval Code: OEPA-D88305073-X.
- ThermoFisher Scientific Elemental Analysis Workshop Series North America May 25, 2017.
- Continuing Education – “STEM Women of Color Conclave/STEM Leadership Academy” Fielding Graduate University/Society of STEM Women of Color, September 17-19, 2016.
- Certificate of Attendance – “Get Students to Focus on Learning Instead of Grades” Metacognition is Key Seminar PVAMU 2016.
- Texas A&M AgriLife Extension Certificate – “Minimizing Potential Health Problems Associated with Household Products and Organic Gases (65)” 2015.
- Climate Science Course - Certificate of Achievement - (TAMU AgriLife Ext.) 2015.

### Professional Memberships

- American Chemical Society (ACS member)
- American Association for the Advancement of Science (AAAS Member)
- National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCCHE Member)
- Society of Environmental Chemistry and Toxicology (SETAC member)
- Sigma Xi Scientific Honor Society (Member and PVAMU Chapter Secretary, Comprehensive Colleges and Universities Constituency Member)

### Presentations/Workshops/Conferences:

- 27th Annual Green Chemistry & Engineering Conference, GCC Summit - In-person breakout/roundtable discussions Co-host for MSI/BIPOC community members and the “Incorporating Green Chemistry & Systems Thinking in General and Organic Chemistry Courses” Workshop, at the ACS Green Chemistry & Engineering Conference in Long Beach, CA, June 12-16, 2023.
- The Fielding Graduate University Center for the Advancement of STEM Leadership (CASL) Mental Health Summit for HBCU STEM Leaders, Washington, D. C. June 8-10, 2023.
- Invited Speaker, REsilient SUsustainable Roadmap for Gulf-Coast Economies (RESURGE) Stakeholder Workshop: “Reimagining the Chemical Heartland with Omnivergent Land, Sea and Space Innovations”, The George Hotel, The Statesman–180 Century Ct, College Station, TX, College Station, October 14, 2022.
- ACS FALL 2022 Conference Presentation: Sustainability in a Changing World, Abstract ID: 3728556; Title: “Connecting Green and Sustainable Chemistry to Environmental Justice at Prairie View A&M University” Chicago, IL & Hybrid, August 21 - 25, 2022.
- 26th Annual Green Chemistry & Engineering Conference, Abstract ID: 3728556, Title: Creating and Sustaining an authentic sense of Belonging for All on the Green Chemistry Teaching and Learning Community Platform (GCTLC), Session: Highlighting Diversity, Equity, Inclusion, and Respect as Key Components of Chemistry and Engineering Curricula – Rapid-Fire Session, June 6 – 8, 2022.

- ACS CHED Green Chemistry Symposium, Abstract ID 3667658 – “Title: Designing chemistry curricula for the future at Prairie View A&M University: Harnessing green and sustainable chemistry principles, the UN sustainable development goals and systems thinking”, March 21, 2022. (Virtual) DOI: 10.13140/RG.2.2.12215.60324
- GreenChem Café: Online green career cafe: AG TU Berlin, February 14, 2021 (virtual).
- ACS GC&E 25<sup>th</sup> Annual Conference presentation Abstract ID: 3565616. Title: “The implementation of GCC at Prairie View A&M University through the transformation of the first-semester general chemistry courses for majors and non-majors with green chemistry”, June 14, 2021.
- PVAMU Division of Research & Innovation Virtual Data Blitz, July 22, 2020.
- Sigma Xi Virtual Chapter Chat: Presentation of Chapter Leaders, “Chapter Management and Officer Onboarding” June 9, 2020.
- Beyond Benign Green Chemistry Connection with the Green Chemistry education community, October 14, 2020.

Grants: Co-PI, Department of Defense HBCU MSI, Grant RFP #W911NF-20-S-0010, Title: “Acquisition of Mass Spectrometry Instrumentation to Expand and Enhance Chemical Mass Analysis in The Department of Chemistry at Prairie View A&M University.