

Abdoulie A Jallow

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EDUCATION

- **Texas A&M University**, College Station, Texas, USA. **May 2023 – Current**
PhD in Chemistry
- **Texas A&M University**, College Station, Texas, USA. **Aug 2022 – May 2023**
*PhD in Biomedical Engineering
- **Indian Institute of Technology Bombay**, Mumbai, India **Jul 2017 – Aug 2019**
Master of Technology in Biomedical Engineering
Thesis Title: Fabrication of paper-based microfluidics device for diagnosis of dental caries
Supervisor: Dr Debjani Paul
- **University of The Gambia**, Brikama, The Gambia **Sep 2011 – June 2016**
Bachelor of Science in Chemistry

SKILLS

Laboratory: Soft Lithography | Cell Culture | Fluorescence Microscopy | Nucleic Acid Extraction | ELISA | PCR | Aseptic Techniques | Maintenance of Cell Lines | UV-vis Spectroscopy | Chromatography (Column and Gas) | Writing SOPs | Accident and Incident Investigations | Biosafety.

Computer: Microsoft Office (Word, Excel, PowerPoint) | Origin | ImageJ | Python (basics) | Web design (HTML5, CSS3, JavaScript) | Hypothesis Testing | Linear Regression.

Soft skills: Communication skills (oral and written) | Multitasking | Teamwork.

PUBLICATIONS

1. Gorachand Dutta, **Abdoulie A Jallow**, Debjani Paul, and Despina Moschou, Label-free electrochemical detection of *Streptococcus muatns* exploiting commercially fabricated Printed Circuit Board sensing electrodes, *MDPI - Micromachines*, 2019, 10, 575

PROFESSIONAL EXPERIENCE

Department of Biomedical Engineering, Texas A&M University **Jan 2023 – May 2023**
Graduate Teaching Assistant (Biomolecular & Cellular Engineering)

- Taught standard cellular and biomolecular engineering assays to 30 senior undergraduate students.
- Trained and supervised 30 students on laboratory safety procedures.
- Held two hours weekly office hours to address students' issues and offer feedback.
- Analyse and troubleshoot students' failed experiments to identify and correct errors.
- Managed laboratory inventory to ensure consumables are always in stock.

MRC Unit The Gambia at LSHTM, Fajara, The Gambia **Jun 2020 – Aug 2022**

Health and Safety Advisor – Biological

- Conducted yearly health and safety assessments and inspections in 8 field sites and field stations across The Gambia.
- Authored six standard operating procedures for safe handling and use of biological materials and equipment, chemical procurement, and chemical waste management and other Unit processes.
- Trained about 200 staff yearly on biosafety, including purchasing, handling and destruction of hazardous biological materials.
- Managed the Unit's Biosafety Program.
- Maintained a database of projects and microorganisms used in the Unit.
- Maintained a database of all risk assessments in the Units.
- Collaborated with research teams to risk assess all work with biological materials.
- Reviewed and categorized over 500 legacy chemicals and determined appropriate destruction mechanisms.
- Collected, analysed, and reported monthly, quarterly, and early records of accidents, incidents and near misses.

* Transferred to PhD Chemistry

SBEC International School, Salaji, The Gambia

Oct 2019 – Jun 2020

Chemistry Teacher

- Developed teaching aids and materials for Form 6 & 7 A and AS level Chemistry.
- Taught Inorganic Chemistry to 5 A-level Chemistry and 2 AS-level Chemistry students.
- Reviewed and improved the Chemistry, Biology, and Science curricula for all school levels.
- Organized tutorials for students lagging in class to help improve understanding of subject matter content.

University of The Gambia, Brikama, The Gambia

Sep 2019 – Dec 2019

Assistant Adjunct Lecturer

- Taught Principles of Analytical Chemistry, Instrumentation in Analytical Chemistry and Principles of Genetics to undergraduate students.
- Prepared student teaching materials and graded scripts.
- Participate in department activities.

West African International School, Bakau, The Gambia

Oct 2016 – May 2017

Chemistry Teacher

Kairaba Senior Secondary School, Kanifing, The Gambia

Oct 2015 – Oct 2016

Chemistry Teacher

AWARDS

- 2023: Graduate Teaching Assistant, Department of Chemistry, Texas A&M (\$52,169 per year)
- 2023: Graduate Teaching Assistant, Department of Biomedical Eng., Texas A&M (\$52,169 per year)
- 2022: Graduate Research Assistant, Department of Biomedical Eng., Texas A&M (\$52,169 per year)
- 2017: ICCR Scholarship Award – African Scholarship Scheme, IIT Bombay (\$10,000 per year)
- 2014: Excellence in Science Education Scholarship, Gambia Ports Authority (\$500 per year)
- 2011: Semi-finalist – Fanta Science and Maths Quiz Competition
- 2011: Champion (Regional) and Quarterfinalist (National) – Qcell Spelling Competition