Elizabeth Dada

PhD Student and Predoctoral NIH-ALPrN T32 Trainee
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EDUCATION

Prairie View A&M University	PhD, Electrical & Computer Engineering	**in-progress**
Prairie View A&M University	MS Chemical Engineering	August 2022
Lone Star College, Cy-Fair, Texas	Computer Science & Programming Courses.	August 2021
Federal Univ. of Tech. Minna, Nigeria.	MEng Chemical Engineering	March 2012

TECHNICAL SKILLS / TOOLKITS

- Programming Language: Python, R,
- Data Analysis: Statistical software and Machine Learning.
- Bioinformatics Tools: Bioconductor, BLAST.

* Google Colab, Jupyter Notebook, SAP
* MS Project, MS Office Suite
* ChemCad, Aspen Plus, Visio

EXPERIENCES

NIH – AIPrN T32 Trainee.   **Prairie View A & M University**   **09/2024 – present**
Predoctoral NIH – AIPrN T32 Training Program - (NIH Grant Funded)
- Interdisciplinary Research Training in Computational Data Skills in: AI, Machine Learning, and Precision Nutrition training, Research in type 2 Diabetes (T2D), and Cancer – related research
- Modeling the Prediction of T2D Onset using '*AllofUs*' Precision Nutrition Datasets, AI, and ML. Algorithms

Graduate Assistant Research   **Prairie View A & M University**   **06/2024 – 08/2024**
- Performed literature searches on applications of machine learning in detecting and mitigating cybersecurity threats.

Data Scientist (Part-time)   **CEPEP Consulting Services Houston, TX**   **06/2024 – 08/2024**
- Built predictive models using R and Python frameworks to help optimize customer experience and help boost revenue generation.

Graduate Assistant Research   **Prairie View A & M University**   **09/2023 – 05/2024**
- Analyzed data samples and determined the optimal number of clusters using K-means Algorithms and Hierarchical Clustering Algorithms
- Performed Differential Expression Analysis (DEA) of raw count RNAseq data using DESeq2
- Performed Gene Set Analysis (GSA) and identified Gene Ontology Terms enrichment using *EnrichGO()* function

Project Manager   **CEPEP Consulting Services Houston, TX**   **01/2023 – 06/2023**
- Planned and Developed project ideas.
- Scheduled and monitored project progress
- Collaborated with stakeholders and clients to determine project timelines.
- Regularly communicated project progress to stakeholders and clients.

Maintenance Engineering – Co-Ops   **BASF Corporation. Palmyra, Missouri.**   **06/2022 -12/2022**
- Participated in Turnaround (TAR) Maintenance project of over $25 Million value.
- Created Preventive Maintenance Plans, Work Order Notification, and Inspection Data reports using the SAP tool
- Monitored improvement of the Plant subunit during the TAR maintenance shutdown period.
- Learned to analyze Piping and Instrumentation Diagrams (P&IDs) and used it to trace pieces of equipment

Graduate Research Assistant   **Prairie View A & M University,** *TX*   **09/2020 – 05/2022**

- Research on using different techniques for converting plastic waste into useful chemicals
- Modeling sustainable greener conversion processes using MATLAB and Aspen Plus Simulation software to sketch the conceptual flow diagrams for the feed, energy, product, and recycled catalyst of the processes
- Research on modeling the conversion processes of captured carbon dioxide (CO_2) into useful chemicals
- Analyzed processes of converting CO_2 into urea, methanol, dimethyl ether (DME), and long-chain HC fuels
- Analyzed different feasible processes of utilizing CO2 to mitigate the global effects of greenhouse emissions and create a low–carbon future.

Process Engineering – Intern   **ChemProcess Technologies, LLC. TX**   **06/2020 – 08/2020**

- Assisted in conceptual designs of chemical processes using Aspen Plus and ChemCad simulation software
- Developed simulation model and process flow diagrams (PFD) for different chemical processes using Visio and ChemCad simulation software.
- Performed heat and material balances around the unit operations for different chemical processes.
- Reviewed different process flow diagram sheets and verified with process data to identify critical control points.

Associate Project Engineer.   **ChemProcess Technologies, LLC. TX**   **09/2019 - 01/2020**

- Assisted project engineering team with daily project reporting using MS tools and SAP software
- Reviewed scope of works, planning, and project execution activities using MS project management tools
- Coordinated internal resources, tracked work plans to ensure a successful project, and created weekly and monthly status reports.
- Performed HAZOP, process safety evaluation, risk analysis, and economic analysis for cost-effective chemical processes

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PROFESSIONAL DEVELOPMENT

- IBM Certificate in Data Science
- Google Project Management
- AIChE/CSP/ SAChE Certificate program in:
    - Risk Based Process Safety
    - Chemical Process Safety in Chemical Industries
    - Hazards Identification and Risk Analysis.
    - Inherently Safety Design
    - Process Safety Lesson Taught from Experience
- NEBOSH/ IGC Occupational Health & Safety (UK).

PROFESSIONAL MEMBERSHIP / LEADERSHIP EXPERIENCE / AWARDS

- Institute of Electrical and Electronics Engineers. (IEEE) – Houston Region, TX
- National Society of Professional Engineers. (NSPE) – TX Chapter
- American Institute of Chemical Engineers. (AIChE). Ex–Officio at PVAMU Student Chapter, 2021-2022
    - **Award received: AIChE**/MAC Janice Lumpkin Travel Award, 2020.