OMOBOLADE ODEDOYIN

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EDUCATION

Johns Hopkins University   Baltimore, MD
Doctor of Philosophy | Computer Science   Expected 2030
Advisor(s): Joshua Vogelstein, Jessica Sorrell

Master of Science in Engineering | Data Science | **3.7**   August 2023 – May 2025
Advisor(s): Benjamin Grimmer

Bachelor of Science | Applied Mathematics and Statistics | **3.5 (HONORS)**   August 2019 – May 2023
Advisor(s): Mario Micheli

Relevant Coursework

Mathematical Statistics (Theory), Probability (Theory), Data Science, Bayesian Statistics, Applied Statistics & Data Analysis, Machine Learning, Artificial Intelligence, Algorithms, Data Structures (Java), Mathematical Modeling & Consulting (SP24 TA), Optimization, Computing for Applied Mathematics, Computer Systems Fundamentals (Assembly, C/C++), Intermediate Programming (C/C++), Applied Plotting & Data Representation, Gateway Computing (Java & MATLAB), Differential Equations, Linear Algebra, Calculus I–III, Discrete Mathematics

HONORS AND GRANTS

- National Consortium for Graduate Degrees for Minorities in Engineering and Science **(GEM) Employer Ph.D. Fellowship** (**fully funded**) (Aug 2025)
- **Top 3 for Best Poster: 2025 Johns Hopkins Research Symposium on Engineering in Healthcare** (January 2025)
- GEM i4 Travel Grant Award: AfroTech Conference (Nov 2024)
- Johns Hopkins University Center for Diversity and Inclusion Black Heritage Celebration Scholarship (Mar 2024)
- **1st Place for Best Poster under the Nuclear Research & Experiments Division: 2023 INL Poster Session** (Aug 2023)
- Johns Hopkins University Dean's Master's Fellowship (Aug 2023 – present)
- Johns Hopkins University Rubenstein Fellowship (Aug 2023 – present)
- **GEM Employer Master's Fellowship** (**fully funded**) (Aug 2023 – present)
- NSF Travel Grant Award: Emerging Data Science Methods for Complex Biomedical and Cyber Data Workshop (Mar 2023)
- Johns Hopkins University Acheson J. Duncan Fund for the Advancement of Research in Statistics Award (Mar 2023, April 2024, Sept 2024, Nov 2024, Jan 2025)
- **Johns Hopkins University Elijah Cummings Baltimore Scholarship** (**fully funded**) (Aug 2019 – May 2023)
- NAACP Legal Defense Fund Herbert Lehman Scholarship (Aug 2019 – May 2023)
- NSF Travel Grant Award: Statistics Undergraduate Research Experience for the Southern Regional Council on Statistics Research Conference (Oct 2022)
- NSF Travel Grant Award: GEM Conference (Sep 2023)
- Johns Hopkins University Hackerman Polytechnic Scholarship (Aug 2022 – May 2023)
- Johns Hopkins University Morris Goldseker Scholarship (Aug 2021 – May 2022)
- Dr. Walter Scott Thomas Sr Scholarship (Aug 2020 – May 2021)
- Maryland Science Center Dr. H. Bentley Glass Scholarship (Aug 2019 – May 2020)

JOURNAL PAPERS

[Under Review] Yoshiura, R. K., Cao, G., Moudgal, A., McDowell, D. J., Kajihara, T., **Odedoyin, O. A.** Machine Learning–Driven Molten-Salt Behavior Exploration and Regression Part I: Feature Selection Analysis. *ANS Nuclear Science and Engineering*.

Villavisanis DF., Schrode KM., Javaid HA., Muniak M., **Odedoyin O.**, Gellatly VA., Xu-Friedman M., Lauer AM. Olivocochlear System Plasticity in Response to Chronic Noise. *Journal of the Acoustical Society of America*. November 2018.

CONFERENCE PAPERS

Odedoyin O. A., Yoshiura R. K., Cao G., Karlsson T. Y., Kajihara T., McDowell D. J., Moudgal A. Development of a Machine Learning-Based Predictive Modeling Framework for Molten Salt Reactor Sensor Data Analysis. *In Proceedings of the 2025 American Nuclear Society Conference.* ANS. April 2025.

Odedoyin O., Cárdenas E., Ocampo Giraldo L., Greenhalgh M., Hix J. *In Proceedings of the 2024 American Nuclear Society Winter Conference & Expo: Radiation Protection and Shielding Division.* ANS. November 2024.

Karthic M., Killanin D., **Odedoyin O.** The Promising Future of Fintech in Closing the Racial Wealth Gap. *In Proceedings of the 2022 Association for Financial Counseling and Planning Education Symposium.* AFCPE. November 2022.

Villavisanis, D. F., Schrode, K. M., **Odedoyin, O.,** Javaid, H., Xu-Friedman, M., & Lauer, A. M. (2018). Effects of noise on olivocochlear feedback to the cochlea. *In Proceedings of the 41st Annual MidWinter Meeting of the Association for Research in Otolaryngology (ARO Abstracts)*, 41(1):453–454. February 2018.

PRESENTATIONS

Odedoyin O., Yoshiura R.K., Cao G., Karlsson T.Y., Kajihara T., McDowell D.J., Moudgal A. "Predictive Modeling of Sensor Molten Salt Reactor Data for Enhanced Monitoring and Analysis,"
- Oral Presenter, American Nuclear Society Conference, Chicago, IL, June 2025
- Poster Presenter, American Nuclear Society Student Conference, Albuquerque NM, April 2025
  - **Acheson J. Duncan Fund for the Advancement of Research in Statistics Award**
- Poster Presenter, CalTech Conference for Emerging Black Academics in STEM (CEBAS), Pasadena, CA, April 2025
  - **Acheson J. Duncan Fund for the Advancement of Research in Statistics Award**
- Oral & Poster Presenter, Mid-Atlantic Research Exchange (MATRX), Baltimore, MD, March 2025
- Poster Presenter, Department of Medicine and Whiting School of Engineering Research Retreat and Poster Session, Baltimore MD, February 2025
- Poster Presenter, 8th Annual Johns Hopkins Research Symposium on Engineering in Healthcare, Baltimore MD, January 2025
  - **Awarded 3rd Place for Best Poster**
- Oral Presenter, 2025 Annual Joint Mathematical Meeting (JMM), Seattle, WA, January 2025
  - **Acheson J. Duncan Fund for the Advancement of Research in Statistics Award**
- Poster Presenter, Data Science Capstone Experience Poster Presentation, Baltimore MD, December 2024
- Poster Presenter, Johns Hopkins University Connect to Campus Poster Session, Baltimore, MD, October 2024

- Poster Presenter, Johns Hopkins University Institute for Data-Intensive Engineering and Science (IDIES) Annual Symposium, Baltimore, MD, October 2024
- Oral & Poster Presenter, National GEM Consortium Annual Conference, San Antonio, TX, September 2024
  - **Acheson J. Duncan Fund for the Advancement of Research in Statistics Award**

Odedoyin O., Cárdenas E., Ocampo Giraldo L., Greenhalgh M., Hix J. "Predicting Solution Color in Solvent Extraction using Machine Learning and Non-Traditional Sensor Measurements,"
- Oral Presenter, American Nuclear Society Winter Conference & Expo: Radiation Protection and Shielding Division, Orlando, FL, November 2024
  - **Acheson J. Duncan Fund for the Advancement of Research in Statistics Award**
- Poster Presenter, Johns Hopkins University Design Day Conference, Baltimore, MD, May 2024
- Oral Presenter, American Nuclear Society Student Conference, State College, PA, April 2024
  - **Acheson J. Duncan Fund for the Advancement of Research in Statistics Award**
- Poster Presenter, NYC Future Energy Conference, New York, NY, March 2024
- Poster Presenter, Mid-Atlantic Research Exchange (MATRX), Baltimore, MD, March 2024
- Poster Presenter, Johns Hopkins University IDIES Annual Symposium, Baltimore, MD, October 2023
- Oral Presenter, Johns Hopkins University Applied Mathematics and Statistics Departmental Seminar, Baltimore, MD, October 2023
- Oral & Poster Presenter, National GEM Consortium Annual Conference, Philadelphia, PA, September 2023
  - **NSF Grant Award**
- Poster Presenter, Annual Idaho National Laboratory Intern Poster Session, Idaho Falls, ID, August 2023
  - **Awarded 1st Place for Best Poster under the Nuclear Research & Experiments Division**

Karthic M, Killanin D**, Odedoyin O**. "The Promising Future of Fintech in Closing the Racial Wealth Gap,"
- Oral Presenter, Association for Financial Counseling and Planning Education (AFCPE) Symposium, Orlando, FL, November 2022

Odedoyin O., Lauer, AM "Quantifying Top-down Neural Input to the Cochlea in Kabuki Syndrome Mice Model,"
- Poster Presenter, Ingenuity Project Math and Science Symposium, Baltimore, MD, May 2019

Villavisanis DF, Schrode KM, **Odedoyin O**, Xu-Friedman M, Lauer AM. "Olivocochlear System Plasticity in Response to Chronic Noise,"
- Oral Presenter, Acoustical Society of America 176th Annual Meeting, Victoria, BC, Canada, November 2018
- Poster Presenter, Eastern Auditory Retreat 17th Annual Meeting, New York, NY, June 2018

Odedoyin O. "Quantifying Efferent Neurons to Analyze the Potential of Hearing Loss Amplification in Kabuki Syndrome,"
- Poster Presenter, Ingenuity Project Math and Science Symposium, Baltimore, MD, May 2018
- Poster Presenter, Baltimore Science Fair, Baltimore, MD, March 2018

Villavisanis DF, Schrode KM, **Odedoyin O**, Xu-Friedman M, Lauer AM. "Innervation and Plasticity of the Olivocochlear System,"
- Oral Presenter, Acoustical Society of America 11th Conference on Acoustics, Washington DC, April 2018
  - **Second Prize for Best Paper**

Villavisanis DF, Schrode KM, **Odedoyin O**, Xu-Friedman M, Lauer AM. "Efferent Innervation of the Cochlea: Noise & Plasticity,"
- Poster Presenter, Day of Undergraduate Research in Engineering, the Arts & Humanities, Medicine, and the Sciences (DREAMS), Baltimore, MD, April 2018

Villavisanis DF, Schrode KM, **Odedoyin O**, Javaid H, Xu-Friedman M, Lauer AM. "Effects of Noise on Olivocochlear Feedback to the Cochlea,"

- <u>Oral Presenter</u>, Association for Research in Otolaryngology 41st Annual Meeting, Student Blitz, San Diego, CA, February 2018
- <u>Poster Presenter</u>, Association for Research in Otolaryngology 41st Annual Meeting, Inner Ear: Anatomy & Physiology Poster Session (713), San Diego, CA, February 2018
- <u>Oral Presenter</u>, St. Vincent's Hospital Otolaryngology Meeting, Sydney, Australia, October 2017

TEACHING EXPERIENCE

Johns Hopkins University   Baltimore, MD
Teaching Assistant   January 2024 – May 2024
Professor: Beryl Castello, Ph.D.
Course: Mathematical Modeling and Consulting EN.553.400/600

RESEARCH EXPERIENCE

Histology AI Analysis Laboratory Assistant   February 2025 – Present
Johns Hopkins University School of Medicine   Baltimore, MD
Advisor(s): Amanda Lauer, Ph.D., George S. Liu, M.D.

- Designed and trained DL models for 3D reconstruction & segmentation of temporal bone histology to study Meniere's disease.
- Improved accuracy and speed of non-linear image registration and tissue segmentation pipelines by integrating MATLAB preprocessing with Python, TensorFlow, and OpenCV workflows.
- Curated and managed large-scale histology datasets, enabling reproducible experiments in tissue classification, spatial mapping, and cross-sample comparison.
- Collaborated with researchers on CODA-based visualization workflows, enhancing interpretability of 3D reconstructions for auditory system studies.
- Assisting in the preparation of research presentations, reports, and potential publications on ML-driven approaches to otopathology and histology image processing.

Molten Salt Reactor Data Science Graduate Research Assistant   May 2024 – September 2025
Idaho National Laboratory (INL) & Johns Hopkins University   Idaho Falls, ID/Baltimore, MD
Advisor(s): Ramon K. Yoshiura, Ph.D., Benjamin Grimmer, Ph.D.
> **Predictive Modeling for Enhanced Monitoring of Molten Salt Reactor Sensors (MSRs)**

- Developed ML models to predict peak current and solute percent in electrochemical data from molten salt reactors (MSRs) to optimize sensor calibration and fuel monitoring processes, and inform MSR future development in enhanced real-time monitoring and operational efficiency
- Analyzed and managed data pre-processing and exploratory data analysis of cyclic voltammetry (CV) data from MSR experiments, studying electrochemical properties of molten salts to ensure high data quality and reliability for model training.
- Conducted feature selection and engineered unified value for chemical compounds features to improve model training accuracy.
- Engaged in literature reviews on MSR technologies and electrochemical behavior for stronger research findings.
- Presented research findings in an academic paper and at conferences.

Nuclear Non-Proliferation Data Science Graduate Research Assistant   June 2023 – May 2024
Idaho National Laboratory (INL)   Idaho Falls, ID/Baltimore, MD
Advisor(s): Luis C. Ocampo Giraldo, Ph.D., Edna Cardenas, Ph.D.

Predictive Modeling for Centrifugal Contactor Solvent Extraction

- Conducted extensive research on solvent extraction processes involving centrifugal contactors and developed machine learning predictive models for solution color, enhancing process monitoring and control, and contributing to the design optimization of a solvent extraction testbed for non-proliferation.
- Managed and processed large datasets from various solvent extraction experiments, involving meticulous data cleaning, pre-processing, anomaly detection, and refinement to ensure robust and reliable input for machine learning model training.
- Conducted thorough correlation analysis among various sensor readings, visualizing these relationships for intuitive understanding and informing predictive model development.
- Presented research findings in an academic paper and at conferences, receiving 1st Place for Best Poster under the Nuclear Research & Experiments division at the INL Intern Poster Session

Data Research Lead   September 2023 – December 2023
Pink AI Inc.   (Remote) Dover, DE
Advisor(s): Juliana Echavarria

Data Management for PinkAI

- Led the identification, acquisition, and refinement of high-quality data sources for AI training datasets, applying rigorous legal and ethical standards to enhance AI's analytical and predictive capabilities.
- Engineered and managed a data pipeline, overseeing data extraction, annotation, integration, and storage while maintaining data integrity and documenting security and compliance measures for seamless model integration.

High Performance Computing Modeling and Simulation Graduate Research Intern   June 2023 – September 2023
Idaho National Laboratory (INL)   Baltimore, MD
Advisor(s): Ramon K. Yoshiura, Ph.D.

Dynamic System Scaling (DSS) for Integrated Energy Systems Scaling with Molten Salt Heat Storage

- Conducted in-depth study and rederivation of Dynamic System Scaling (DSS) to better understand its application in energy system modeling.
- Successfully applied DSS to a molten salt air cooler, contributing to the accurate emulation of microreactor behavior in integrated energy systems.
- Authored significant sections of a theory methodology and results for an academic journal, demonstrating the successful application of DSS to a molten salt air cooler.
- Assisted in the quantitative assessment of energy system models, enhancing the understanding of their behavior in the context of integrated energy systems and microreactors.
- Contributed to a publication milestone due in August 2023, demonstrating the effective application of DSS to molten salt air coolers.
- Completed technical presentations in lab meetings and presented research findings in an intern poster session, effectively communicating complex technical concepts to a diverse audience.

Data Analyst Intern   May 2022 – August 2022
Johns Hopkins University, Johns Hopkins Underrepresented in Medical Professions (JUMP)   Baltimore, MD
Advisor(s): Shavonia Wynn Ph.D.

- Analyzed data from MCAT and DAT study preparation activity to visualize key metrics of 55 students' learning patterns to inform future strategies, including incentive measures

- Implementing MATLAB and VBA algorithms to clean dataset containing 35+ categories and visualize study activity
- Generated weekly reports for relevant departments to drive decision-making on 15+ projects
- Executed precision marketing to both existing and new grant donors and JUMP program members

Research Student   Baltimore, MD
Johns Hopkins University Center for Leadership Education   January 2022 – November 2022
Advisor(s): Mia Russell, Ph.D.
- Evaluation of financial technology (fintech) service as a force for good in underserved communities by expanding financial access and reducing the racial wealth gap
- Conducted an in-depth literature review and analysis on the impact of fintech in reducing the racial wealth gap, focusing on expanding financial access and services in underserved communities.
- Investigated specific fintech products and their effectiveness in providing alternative credit assessments and financial services, facilitating wealth accumulation in low-income communities of color.
- Evaluated the role of strategic partnerships between fintech companies and nonprofits, emphasizing the importance of ethical fintech practices and their integration into financial counseling to enhance financial security and inclusion.

Reinforcement Learning Research Intern (CIRCUIT)   Baltimore, MD
Johns Hopkins Applied Physics Laboratory   May 2020 – August 2021
Advisor(s): Kevin Rodrigues
- Collaborated on technical projects within a one-year cohort-based program to further understand the applications of artificial intelligence/machine learning concepts and build capabilities with TensorFlow, AWS, and PyTorch.
- Constructed algorithms for Deep Racer car models using machine learning on AWS to drive autonomously through reinforcement learning with reward functions written in Python
- Designed race car specifications to train models using a 3D simulator on the AWS DeepRacer console on Amazon and physical track to test physical models with downloaded algorithms for racing
- Optimizing reward function with a physical racetrack and hyper-parameters to achieve lap time under 30 seconds

Research Assistant/ Lab Technician   Baltimore, MD
Johns Hopkins University School of Medicine, Lauer Lab   October 2017 – May 2020
Advisor(s): Amanda Lauer, Ph.D.
- Demonstrated efforts in immunohistochemistry by expanding skills with electron microscopy and data analytics of auditory and vestibular systems of mice
- Designed, managed, and executed experiments over 3 years to determine effects of kabuki syndrome on synaptic plasticity in olivocochlear systems
- Analyzed 1000+ confocal microscopy images with thresholding algorithms to yield conclusions on innervation density and morphology of auditory efferent systems
- Presented posters and oral talks at university and local conferences

SELECTED COURSE PROJECTS

Predictive Modeling for COVID-19 Mortality Rates   Baltimore, MD
                                                                                March 2024 – May 2024
- Developed robust predictive models to assess COVID-19 mortality risk, leveraging a comprehensive dataset from the CDC, utilizing Python and machine learning techniques.

- Enhanced data integrity and usability by meticulously preprocessing the dataset, including handling missing values and standardizing features to prepare for effective model training and validation.
- Implemented Recursive Feature Elimination with Cross-Validation (RFECV) to optimize feature selection, significantly improving model performance by focusing on the most impactful predictors.
- Achieved high predictive accuracy with optimized Random Forest and Logistic Regression models, enhancing the ability to predict COVID-19 mortality and informing public health strategies.

Development and Application of Dynamic System Scaling for Integrated Energy Systems Scaling with Molten Salt Heat Storage

Idaho Falls, ID
June 2023 – August 2023

- Assisted in scaling Dynamic System Scaling (DSS) to quantitatively assess the capability of energy system models for microreactors in an integrated energy system.
- Applied DSS to a molten salt air cooler, contributing to the understanding and optimization of the system.
- Co-authored a technical publication detailing the methodology and results of the molten salt air cooler scaling.
- Presented technical findings during lab meetings, demonstrating proficiency in technical communication.

Predictive Modeling for Wikipedia Pages

Baltimore, MD
April 2023 – May 2023

- Developed predictive models to estimate web page attributes (length, word presence, and last edit date) for a random sample of Wikipedia pages using Python and machine learning algorithms.
- Preprocessed data by handling missing values with IterativeImputer, standardizing features with StandardScaler, and performing train-validation splits for model selection.
- Utilized Recursive Feature Elimination with Cross-Validation (RFECV) for feature selection and compared multiple classifiers and regressors to select the best models.
- Achieved optimal performance using Random Forest models for all targets, including Mean Absolute Error (MAE) for length predictions, True Positive Rate (TPR) for word presence predictions, and TPR for edited 2023 predictions.

AI Academic Content Summarization Platform and Market Analysis

Baltimore, MD
January 2023 – May 2023

- Collaborated on an interdisciplinary team to explore the emerging market of generative AI for text summarization, specifically targeting academic content, resulting in the identification of a niche market with significant growth potential.
- Developed and implemented web scraping techniques to gather academic data from over 100 online sources, serving as training data for fine-tuning GPT models.
- Preprocessed and cleaned the collected data, reducing noise by 80% and ensuring high-quality input for training a niche based GPT model, which resulted in a 35% improvement in summarization performance.
- Utilized the Open AI package to build and train a custom GPT-3 model tailored for academic content summarization, achieving a 25% reduction in model training time through fine-tuning and prompt engineering techniques.
- Assisted in the development of a comprehensive one-year market entry plan and a competitive analysis to identify gaps in the market and opportunities for differentiation, leading to the development of unique pricing and distribution strategies that enhanced market penetration.

Command Line Chess Game Program   Baltimore, MD
                                                    November 2022 – December 2022
- Constructed a command line two-player Chess game in C++ utilizing object-oriented programming principles to create a modular and easily debuggable structure, consisting of Game, Board, and Piece classes with child classes for each chess piece.
- Developed game logic adhering to the official rules of chess, excluding castling and en passant moves, allowing users to play games until checkmate or stalemate, and provided functionality to save and load games from .txt files.
- Designed a user-friendly interface with a list of possible actions including move, load, save, and quit, enhancing the overall user experience and ease of use.
- Optimized debugging by creating a well-organized object-oriented structure, separating functionalities into individual classes and subclasses for each piece, game control, and board management.
- Implemented exception handling for detecting and recovering from illegal moves and game loading failure.
- Integrated a point value system to measure player advantage based on the value of pieces remaining on the board, aiding in strategic decision-making, and providing insight into game progression.

Image Processing Program (Paired Programming)   Baltimore, MD
                                                                October 2022
- Collaborated with a partner to design and implement an image processing program with a command-line-based user interface.
- Utilized "paired programming" methodology to ensure joint responsibility for the code.
- Applied Git version control system for project tracking and management.
- Programmed in C to read and write PPM image files, process images, and perform various operations like swapping color channels, inverting colors, rotating images, zooming out, creating a swirl effect, and edge detection.
- Developed a Makefile for seamless compilation of the program and implemented error reporting with informative error messages and return values.

LEADERSHIP/SERVICE

Huber Memorial Church,   Baltimore, MD
Tape Ministry Soundboard Operator and Media Distribution   August 2019 - Present
- Manage soundboard operations for audio during services, including setup and breakdown of audio equipment.
- Prepare media distribution (CD) of sermons for dissemination after each service.

Johns Hopkins University, Center for Student Success   Baltimore, MD
FLI Initiatives Program Coordinator   January 2024 – May 2025
- Coordinated an automated system for the HopIn program's book loan, improving efficiency by 40%.
- Developed and maintained FLI website, boosting traffic by 25%.
- Planned and executed 15+ CSS events, increasing student participation by 30%.
- Drafted and proofread reports and communications, ensuring accuracy.

Johns Hopkins University, Johns Hopkins University Underrepresented in Medical Professions   Baltimore, MD
Volunteer Mentor, Intern   August 2020 – May 2023
- Facilitate informational workshops and academic mentorship to connect with 30-35 freshmen and help them navigate their first year
- Provide ample resources and leadership ensuring successful encouragement to pursue careers in medicine and other

health professions
- Assemble 5 weekly reports reflecting beneficiaries' reception from programming with a purpose to provide academic support, mentoring, community building, career exploration, and leadership opportunities

Moveable Feast   Baltimore, MD
Volunteer   October 2021 – January 2022
- Assist kitchen staff prepare and package medically tailored meals including peeling and dicing vegetables, seasoning proteins, portioning meal ingredients into trays for packaging, sorting and bagging meals by diet plan.

Johns Hopkins University National Society of Black Engineers   Baltimore, MD
Co-Conference Planning Chair, Current Member   May 2020 – May 2021
- Coordinated conferences, general body meetings, and programming initiatives for 100+ undergraduate and graduate engineering students for the student chapter of the professional society.

Johns Hopkins University, Thread Inc.   Baltimore, MD
Volunteer Mentor   August 2019 – August 2020
- Facilitated development and execution of summer school curriculum for 16 high school students focused on career exploration, personal development, and financial literacy
- Composed and sent emails to students, volunteers and site supervisors regarding payment procedures, scheduling, and community updates using Mail Merge
- Conducted outreach to Baltimore non-profits for weekly speaker presentations

AFFILATIONS/ MEMBERSHIP

Member, Data Science and Artificial Intelligence Institute @ JHU (2024 – Present)
Member, Society for Industrial and Applied Mathematics (2024 – Present)
Member, The Institute for Data Intensive Engineering and Science (2023 – Present)
Member, American Nuclear Society (2023 – 2025)
Member, Graduate Black Student Union, Johns Hopkins University (2023 – Present)
Member, Association for Financial Counseling and Planning Education (2022 – 2023)
Member, National Society of Black Engineers, Johns Hopkins University (2019 – Present)

TECHNICAL SKILLS

Computational
Python (sckitlearn, pandas, numpy, matplotlib, pytorch, openai), C/C++, Java, MATLAB, R, Unix, Git, Excel, FL Studio, Microsoft Office Suite, LaTeX

Wet Laboratory
Immunohistochemistry techniques (tissue collection, perfusion, fixation with formaldehyde, and embedding using paraffin wax, sectioning using and mounting, e-paraffinization and epitope (antigen) retrieval, IHC immunodetection) electron microscopy techniques for quantifying activity-dependent changes in the morphology of peripheral and central auditory synapses

LANGUAGES

French (Proficient)
Yoruba (Conversational)
Isoko (Conversational)