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EDUCATION	Ph.D. Economics , Howard University, Washington DC, USA – <i>Expected February 2026</i> M.Sc. Economic Development , University of Ibadan, Ibadan, Nigeria – <i>Sept 2018</i> B.Sc. Microbiology , Obafemi Awolowo University, Ile-Ife, Nigeria – <i>Sept 2013</i>
PROFESSIONAL TRAINING & CERTIFICATES	Artificial Intelligence with Python , Harvard University Extension School – <i>2023</i> Post Graduate Program in Data Science , Career Era & Birchwood University, Orlando, Florida – <i>2022</i> Data Analytics , Google Career Certificate Program – <i>2021</i> Machine Learning Engineering , Amazon Web Services Certificate Program – <i>2021</i> Blum Global Fellowship in Development Finance Practice , Hebrew University Business School & Jerusalem Institute for Policy Research, Israel – <i>2020</i>
TECHNICAL SKILLS	Econometrics & Causal Inference Panel & Time-Series Models; IV & GMM; Spatial Econometrics; DiD; RDD; PSM; Fixed Effects; Synthetic Control; Quantile Regression; Causal ML (CATE, Causal Forest, DML, DTE, CDTE). Data Science & Machine Learning Predictive Modeling; Ensemble methods (Boosting: XGBoost, LightGBM; Bagging: Random Forest; Stacking: Super Learner), Model Evaluation & Optimization; NLP & LLMs; Deep Learning; Experimental Design & A/B Testing; Feature Engineering. Programming & Tools Python (pandas, statsmodels, scikit-learn); R; Stata; SQL; Power BI; Tableau; MATLAB; ArcGIS; Google Earth; HTML/JavaScript; GitHub; Azure; AWS; LaTeX.
HONORS & AWARDS	Frederick Douglass Doctoral Scholar , Howard University Graduate School, 2023–2024 World Bank Group Africa Doctoral Fellow – selected as 1 of 32 fellows from over 3,000 applicants, 2023 Early Career Conference Grant , Association of Commonwealth Universities (ACU), London, UK – 2019 Outstanding Research Contribution Award , <i>Young African Leaders Journal of Development</i> , Ethiopia – 2018 Young WASH Scholar , Africa Water Association (AfWA) & USAID West Africa – 2018 YALI Leadership Award in Energy and Environmental Sustainability , Nigeria – 2018
JOB MARKET PAPER	<ul style="list-style-type: none">The Building Energy Performance Standard Program: Impacts on Building’s Energy Efficiency and GHG Emissions in Washington, DC [Link]
PUBLICATIONS	<ul style="list-style-type: none">“Climate Change and Energy Dynamics: Evidence from BRICS and G7 Countries,” <i>Energy & Environment</i>, 2024, 0(0). [Link]“Evaluating the Economic Impact of the G20 Compact Initiative: Evidence from Causal Inference Using Advanced Machine” (with N. Yameogo), <i>Journal of Sustainable Development</i>, 2024, 17(5), 56–76. [Link]“Defense Expenditure and National Well-Being: Evidence from the G7 Countries,” <i>Defence and Peace Economics</i>, 2024, 1–12. [Link]“Effectiveness of Collective Action in Reducing Transaction Cost for Smallholder Paddy Farmers in Tanzania” (with L. Popoola), <i>African Journal of Economic and Sustainable Development</i>, 2020, 7(4), 391–404. [Link]“Water Availability Challenges in Low-Income Areas of Agbowo Community, Ibadan, Nigeria” (with O. Olayide), <i>International Journal of Circular Economy and Waste Management</i>, 2021, 1(1), 81–96. [Link]“Assessment of Women and Children Vulnerability to Water Use in Low-Income Urban Area of Agbowo Community, Ibadan, Nigeria” (with O. Olayide), <i>International Journal of Sustainability Management and Information Technologies</i>, 2019, 5(2), 29–34. [Link]“Transaction Cost Factors Affecting the Economic Life of Smallholder Paddy Farmers in Tanzania” (with L. Popoola and L. Muhoni), <i>Africa Journal of Sustainable Development</i>, 2019, 8(1). [Link]
World Bank Group Papers	<ul style="list-style-type: none">“Climate Shocks and Their Effects on Food Security, Prices, and Agricultural Wages in Afghanistan” (with B. P. J. Andree and A. Braimoh), <i>Policy Research Working Paper, World Bank Group (PLANET)</i>, 2024. [Link]“Reproducibility Package for Climate Shocks and Their Effects on Food Security, Prices, and Agricultural Wages in Afghanistan” (with B. P. J. Andree), <i>World Bank Policy Research Working Papers</i>, 2024. [Link]
World Bank Group Reports	<ul style="list-style-type: none">International Finance Corporation. (2025). Closing the Gap: A Data Outlook on Women Economic Opportunities. [Link]International Finance Corporation. (2024). <i>Repurposing power markets: The path to sustainable and affordable energy for all</i>. International Finance Corporation. [Link]

- The World Bank Group. (2023). *Compact monitoring report: Africa Advisory Group meeting, November 2023*. G20 Compact with Africa. [\[Link\]](#)

Book Chapters	<ul style="list-style-type: none"> • “A Review on Impact of Changing Climate on Sustainable Food Consumption,” in <i>Global Food Politics and Approaches to Sustainable Consumption</i>, 2020, 54–76. [Link] • “Climate Change Implication on Airborne Infections: Roadmap for Nigeria’s Health Sector Development,” in <i>Handbook of Climate Change Resilience</i>, 2018, 1–10. [Link]
Blog	<ul style="list-style-type: none"> • “Better Data for Better Outcomes: New Tools and Analysis to Break Afghanistan’s Food Security Crisis” (with B. P. J. Andree and A. Braimoh), <i>World Bank Blogs</i>, 2025. [Link]
Working Paper	<ul style="list-style-type: none"> • Heterogeneous Effects of Cooling Demand on Household Electricity Consumption using Causal ML Models, [Link] • Beyond Affordability: A Spatial Econometric Analysis of Renter Cost Burdens and Social Determinants in the United States
CONFERENCES & WORKSHOPS	<p>Annual NABE Tech Economics Conference, NABE, Seattle WA, USA – 2025</p> <p>Annual Economic Measurement Seminar, NABE, Washington DC, USA – 2025</p> <p>Empirical Methods in Energy Economics, EMEE Network & The World Bank, Washington DC, USA – 2025</p> <p>American Economic Association / National Economic Association Conference (ASSA Meetings) – 2024</p> <p>Development Studies Association Conference, Trinity College, Dublin, Ireland – 2019</p>
EMPLOYMENT	<p>World Bank Group – Economist (Washington, DC 01/2023 – Present)</p> <ul style="list-style-type: none"> • Lead IFC’s flagship research on gender data, producing the first global mapping of public and private indicators on women’s economic opportunities and laying the foundation for the IFC’s Private Sector Gender Data Hub, including the design of automated data pipelines and BI dashboards, processing 2–4 TB of multi-source datasets. • Developed model-based early warning systems for food insecurity (Afghanistan, Yemen) using econometric and VAR approaches, improving lead times for Early Response Financing by up to 12 months. • Led Compact with Africa’s economic impact report demonstrating 5–10% gains in FDI and domestic financing, and delivering analyses that informed the Germany-Africa Head of State Summit and World Bank Annual Meetings. • Applied econometrics and machine learning methods (DiD, TMLE, PSM, Random Forest, LightGBM, Gradient Boosting) to evaluate policy and investment impacts, integrating statistical analysis and causal inference design. • Conducted applied research on energy and extractives markets, refining IFC’s AIMM framework to assess development impact and linking power market structure to sector outcomes. • Built ML models (using HistGradient Boosting, LightGBM, CatBoost, XGBoost) on 500+ GB IFC’s historical debt data, improving IFC’s non-performing loan detection by 15% and strengthening debt portfolio monitoring. • Engaged senior stakeholders across World Bank Group, academia, private sector, and government, translating complex data-driven findings into compelling narratives and strategic policy recommendations. <p>Howard University Graduate School – Research Assistant Teaching Assistant (Washington, DC 2024 – 2025)</p> <ul style="list-style-type: none"> • Processed over 100 million trade records from UN Comtrade for faculty research on international trade. • Teaching Assistant for Economic Statistics (Undergraduate): grading, tutorials, and data-lab instruction. <p>DC Sustainable Energy Utility (DCSEU) & DC Department of Energy and Environment (DOEE) Energy Efficiency Analyst Washington, DC 06/2022 – 12/2022</p> <ul style="list-style-type: none"> • Analyzed 100+ GB of building benchmarking data and performed benefit-cost and impact analyses showing 5–10% performance gains; also supported low-income housing retrofit and solar initiatives through policy briefs and visualizations. <p>Edelman Global Advisory – Research Analyst (Washington, DC 09/2022 – 12/2022)</p> <ul style="list-style-type: none"> • Conducted economic and regulatory research on trade and climate policy across six regions, generating insight reports that guided policy actions impacting markets representing over \$500B in annual trade. <p>Earlier Experience (2013 – 2021)</p> <p>Nigerian Economic Summit Group — Bridge Policy Research Fellow (Aug 2020 – Aug 2021, Nigeria)</p> <p>International Institute for Local Development — Data Analyst (Sep 2019 – Jul 2021, Abuja, Nigeria)</p> <p>Jerusalem Institute for Policy Research / Gigawatt Global Inc. — Research Specialist (Jan 2020 – Sep 2020, Israel)</p> <p>Clean Edge Exclusive Solution — Team Lead, Projects & Programs (Jun 2017 – Dec 2020, Nigeria)</p> <p>Africa Water Association & USAID West Africa — Research Fellow (Jul 2018 – Dec 2018, Nigeria)</p> <p>International Fund for Agricultural Development — Research Fellow (Jan 2018 – Jun 2018, Tanzania)</p> <p>Crown FM Broadcast Group & Independent Media — Research Analyst (Jun 2013 – Jun 2016, Nigeria)</p> <ul style="list-style-type: none"> • Conducted research and analysis on energy, water, and agricultural systems across Africa and the Middle East using econometric and ML tools, supporting development initiatives totaling over \$20B in investment; led solar and ESG modeling efforts in 5 emerging markets, and co-led the establishment of UN CEO Water Mandate in Nigeria.