

TIMOTHY KING AVORDEH, Ph.D.

Academic Leader & Sustainable Energy Expert

Contact Information

12 Numo Kwei Street, Adenta, Accra, Ghana
+233 (0) 24 490 3720 | +233 (0) 20 863 4900
timothy.avordeh@upsamail.edu.gh

Digital Profiles

- ORCID: [0000-0002-8196-6645](https://orcid.org/0000-0002-8196-6645)
- LinkedIn: [Dr. Avordeh Timothy King](#)
- Google Scholar: [Timothy Avordeh](#)
- ResearchGate: [Timothy Avordeh](#)

Professional Profile

Mid-career Energy Economist and Academic Leader with 12+ years of experience in research excellence, policy modeling, and innovative education delivery. Expert in sustainable energy systems, demand response, and institutional governance in Sub-Saharan Africa. Proven success in securing grants, publishing in high-impact journals, and leading academic and research units. Currently appointed Coordinator of the Distance Learning Programme at UPSA, driving strategic growth and quality assurance.

Core Competencies

- **Academic Leadership:** Curriculum Development, Distance Education, Faculty Mentorship, Quality Assurance, Institutional Strategy
- **Research & Analysis:** Energy Systems Modeling, Econometrics, Demand Response Forecasting, Climate Resilience Planning, Stochastic Optimization
- **Technical Proficiencies:** Stata, EViews, R, SPSS, MATLAB, Python, SmartPLS, Moodle, Canvas
- **Grants & Projects:** Grant Writing & Management, Interdisciplinary Collaboration, Stakeholder Engagement, Policy Advisory

Professional Experience

University of Professional Studies, Accra (UPSA)
Accra, Ghana

- **Senior Research Fellow & Coordinator, Distance Learning Programme** (Oct 2025 – Present)

Lead strategic development and quality assurance for distance learning initiatives aligned with institutional vision.

- **Head, Research Compliance Unit** (Apr 2018 – Present)
Oversee research ethics, integrity, and compliance across faculties.
- **Research Fellow** (Sep 2015 – Present)
Conduct and supervise research in sustainable energy, statistics, and quantitative methods.

Sustainable Energy Transition Initiative (SETI), University of Gothenburg *Sweden*

- **Research Fellow** (Aug 2025 – Present)
Contribute to interdisciplinary research on energy transition and policy in African contexts.

Public Utilities Regulatory Commission (PURC) *Ghana*

- **Lead Energy Expert** (Jun 2022 – Dec 2023)
Directed nationwide electricity tariff study, integrating IoT and smart meter data to inform regulatory policy.

Madina Centre for Education Policy (MCEP) *Ghana*

- **CEO / Director of Research & Policy** (Jan 2020 – Present)
Oversee research-driven policy development to improve educational outcomes in Ghana.

Previous Academic Roles

- Adjunct Lecturer, Ghana Institute of Management and Public Administration (GIMPA)
- Adjunct Lecturer, University of Education, Winneba (UEW)
- HOD Mathematics & Senior House Master, Action Senior High School

Education

- **Ph.D., Sustainable Energy Management** – University of Energy and Natural Resources, Sunyani (2024)
- **M.Sc., Financial Engineering** – WorldQuant University, USA (2020)
- **M.Sc., Mathematics** – Kwame Nkrumah University of Science and Technology (2011)
- **B.Ed., Mathematics** – University of Education, Winneba (2007)

Selected Publications

1. **Avordeh, T. K.**, Gyamfi, S., Peprah, F., & Quaidoo, C. (2025). Transforming energy access in developing economies: An innovative framework for demand response integration. *Energy for Sustainable Development*.

2. **Avordeh, T. K.**, Peprah, F., Quaidoo, C., & Opare-Boateng, R. (2025). Demand response as a catalyst: Ghana's strategic pathway to 10% renewable energy by 2030. *Energy Reports*.
 3. **Avordeh, T. K.**, Peprah, F., Quaidoo, C., & Opare-Boateng, R. (2025). Engaging the Next Generation: Youth role in demand response participation in Ghana. *Renewable Energy Focus*.
 4. **Avordeh, T. K.**, Salifu, A., Quaidoo, C., & Opare-Boateng, R. (2024). Impact of power outages on micro, small, and medium-sized enterprises and poverty in Sub-Saharan Africa. *Heliyon*.
 5. **Avordeh, T.K.** & Gyamfi, S. (2024). Optimizing residential demand response in Ghana through iterative techniques. *Heliyon*.
 6. **Avordeh, T. K.** Gyamfi, S. Opoku, A. A. & Peprah, F. (2023). Assessing the viability and environmental impact of residential demand response programs: A case study in East Legon, Greater Accra, Ghana. *Energy Reports*
 7. **Avordeh, T.K.** et al. (2021). Estimating residential electricity consumption for appliance use: A statistical model approach. *IEEE ICECET*.
 8. **Avordeh, T.K.**, Gyamfi, S. & Opoku, A.A. (2021). Quantitative estimation of the impact of climate change on residential electricity demand for the city of Greater Accra, Ghana. *International Journal of Energy Sector Management*.
-

Books

- **Avordeh, T.K.** & Salifu, A. (2025). *A Comprehensive Guide to Grant Writing: From Discovery to Decision*. Macbryte, Ghana.
 - Tuffour, J.K., **Avordeh, T.K.**, & Bunyaminu, A. (2018). *Statistics for Decision Making*. UPSA Press.
-

Grants & Consultancies

- Lead Researcher, PURC Electricity Tariff Study (2022–2023)
 - Assistant Lead Researcher, NHIA Capitation Education Impact Study (2015)
 - Contributor, Ghana Revenue Authority Training Programme (2023)
-

Professional Development & Certifications

- Research4Life Master Trainer (UN, 2021)
 - AAU Faculty Online Teaching Certification (2020)
 - Certified Quantitative Risk Manager (CQRM, USA, 2019)
 - Grant Proposal Writing Certification (INASP, 2025)
-

Leadership & Service

- Secretary General, United Nations Association Ghana (2024–Present)
 - CEO, Madina EDUScheme, Office of the Madina MP (2021–Present)
 - Frequent Reviewer for *Energy Research & Social Science*, *Renewable & Sustainable Energy Reviews*, *International Journal of Energy Sector Management*, and others.
-

References

Available upon request.