DIOUF Mboundor, Ph.D. candidate in Economics

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Fields of interest

- Natural resources, Energy Economics, Environmental and Resource Economics, Development economics, Public Economics, Political Economy, Applied econometrics, Spatial econometrics and GIS, Impact Evaluation, and Applied Econometrics.

Education

April – September 2024	• **Visiting scholar, Arizona State University**, Arizona (US). (1) Impact of mining and energy use on national decarbonization goals; (2) Study the impact of the integration of mining and power on energy access, focusing on local disadvantaged populations and national-scale analyses. Supervisor: *Nathan Johnson*
2021 – present	• **Ph.D. candidate in Economics, University of Poitiers, EIEA Chair (Mines ParisTech and UM6P)**, Poitiers, Paris (France). Thesis title: *Mining in Africa at a Crossroads: Development, Environmental Stress, and Conflict Dynamics*. Supervisor: *Ahmed Tritah*
2020 – 2021	• **Pre-Doctoral in Economics, Mines ParisTech** , Paris (France). Supervisors: *Ahmed Tritah; Raja Chakir; Flore Gubert*
2018 – 2020	• **Research Master (Magister) in Development Economics, Clermont Auvergne University - CERDI**, Clermont-Ferrand (France). Thesis title: Mining, energy, and environment in SSA. Supervisors: *Jean Louis Combes, Théophile Azomahou*
2017 – 2018	• **Bachelor in Economics, Clermont Auvergne University - CERDI**, Clermont-Ferrand (France).
2014 – 2017	• **Bachelor in Economics, Université Cheikh Anta Diop, FASEG**, Dakar (Senegal).

Experience

April 2025–Present	• **Consultant**: Development Research Group DECRG, focusing specifically on the Energy in Africa Initiative, World Bank, Washington DC, US. Research Assistant on "*Electrifying Africa's Economic Transformation: What Policy-Mix Should Governments Pursue?*" Policy Paper (*by September 2025*) TTL: Stuti Khemani and Megan Elizabeth Lang
April 2024–Aug 2024	• **Consultant**: Laboratory for Energy And Power Solutions (LEAPS), Arizona, US.
2021 – 2024	• **Associate Researcher**: Energy and Prosperity Chair, EIEA Chair (Mines Paris Tech and UM6P), the CR-Sahel.
2018 – present	• **Lecturer in Economics:** **University of Paris 1 Panthéon-Sorbonne** *2025-2026:* Macroeconomics and Monetary Instrument *2022-present:* History of Economics **University of Poitiers** *2024-2025:* Microeconomics, Macroeconomics, and Economic Analysis **Clermont Auvergne University** *2018-2019:* Mathematics and Statistics

Experience (continued)

Fev 2021–Jul 2021 • **Intern**, CERNA (Mines ParisTech), Paris (France).
Training on energy and mining exploitation. Analytical and Quantitative methods used in economic research.
Supervisor: *Pierre Noel Giraud*

2018 – 2019 • **Intern, Research Study Assistant**, Clermont Auvergne University - CERDI, Clermont-Ferrand (France).
Modeling and analysis of African climate data (mapping and interpretation) with Rstudio (R-shiny) and Quantum GIS.
Supervisor: *Catherine Araujo Bonjean*

Skills

Languages • English (fluent), French (native)

Softwares • Stata, R (R Markdown, R Shiny, Machine Learning, Web Scrapping), Python, Eviews, QGIS, ArcGIS, Microsoft Office, LaTeX.

Misc. • Academic research, Teaching, Training, and Consulting.

Improving Skills: Training and Certification

July 28-August 6, 2025 • **Workshop on Research Design for Causal Inference (Online)** from Northwestern Pritzker School of Law, Chicago, United States. Program link.
The Workshop provides an in-depth discussion of selected topics for 2025, including the application of machine learning methods to causal inference, difference-in-differences methods for staggered treatments, and advanced instrumental variable methods.

October 2023 • **Geographic Data Science for Sustainability** from University of Jena, in Germany (EC2U-Autumn School). Program link and Data Science Certification link.
The autumn school provides an overview of state-of-the-art machine-learning techniques for geospatial and environmental analysis and modelling.

March 2023 • **Thematic School on Public Policy Evaluation** from CNRS, in Aussois, France (TEPP-Winter School). Program link.

July 2022 • **Spatial Analysis in Health and Environment Researches with SIG** from Universidade de Coimbra, Portugal (ERASMUS-Summer School). Program link and SIG Certification link.
This introductory GIS, environment, and health course has equipped me with practical experience in handling spatial data and utilizing analysis methods through platforms such as R Studio, ArcGIS, and QGIS.

2022 • **Spatial Data Analysis with R and Qgis** from UDEMY (Online courses). Introductory R and Qgis Certification link and R and Qgis Certification link.

Awards and Fellowships

2021–2024 • Research Fellowship of the EIEA chair (*€1,600 per month*)

April 2024 • Grant for international mobility from Foundation Poitiers: *€2,000*

October 2023 • Grant for international mobility from EC2U in Europe: *€2,500*

July 2022 • Grant for international mobility from EC2U in Europe: *€2,000*

Research

Research Articles

1. **M. Diouf**, R. Soubeyran, and A. Tritah, "The new mining rush: How mining discoveries displace conflicts in africa," *Working Paper*, 2023-2024.

2. **M. Diouf** and R. C. Vincent, "Mining, local governance and urbanization in africa," *Working Paper (in progress)*, 2024-2025.

3. **Mboundor Diouf**, "Natural disasters kill natural resources: Is mining investment for energy transition risk?" *Working Paper (in progress)*, 2025-2026.

4. **M. Diouf**, T. Kemabonta, and N. Johnson, "Mining and power: Energy access in sub-saharan africa," *(In progress)*, 2024.

5. **Mboundor Diouf**, "Electricty access and malaria in sub-saharan africa," *Working Paper*, 2023.

6. **M. Diouf**, R. Chakir, and A. Tritah, "Under the canopy: Mining and deforestation in sub-saharan africa," 2022.

International Conferences

1. In *CSAE Oxford Conference: Economic Development in Africa*, Oxford, UK, 2025.

2. In *Seminaire*, Université d'Orléans, LéO, Orléans, France, 2024.

3. In *Seminaire*, School of Sustainability, ASU, Tempe, Arizona, USA., 2024.

4. In *Global Energy Transition and Development: Africa at Crossroads*, Mines Paris PSL, 67 Boulevard Saint-Michel, Paris, France, 2024.

5. In *93rd Annual Meeting of the Southern Economic Association (SEA)*, New Orleans, LA, US, 2023.

6. In *CSAE Oxford Conference: Economic Development in Africa*, Oxford, UK, 2023.

7. In *Interdisciplinary Ph.D. Workshop in Sustainable Development (IPWSD)*, at Columbia University in the City of New York, US, 2023.

8. In *The 2023 Africa Meeting of the Econometric Society (AFES 2023)*, at the AERC in Nairobi, Kenya, 2023.

9. In *ICDE 2023: International Conference on Development Economics, AFEDEV*, at the Paris School of Economics in Paris, France, 2023.

10. In *Journées de Microéconomie Appliquée (JMA)*, at the University of Strasbourg, France, 2023.

11. In *International Conference on Economics and Business Roads to Sustainability (ICEBRS)*, at the Faculty of Economics of the University of Coimbra (FEUC), Portugal, 2023.

12. In *4th Conference on Econometrics for Environment (CE2-2022)*, Rabat, Morocco, 2022.

13. In *Semaine Data SHS 2022*, University of Poitiers, Poitiers, France., 2022.

References

Ahmed Tritah
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University of Poitiers, UM6P, Mines Paris PSL (Cerna), EIEA Chair, Chair «Energy and Prosperity».
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