

## 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)
- 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:**  
**Sept 2024-February 2025:** University of Poitiers.  
*Courses:* Microeconomics, Macroeconomics, and Economic Analysis  
**Sept 2022-present:** University of Paris 1 Panthéon-Sorbonne.  
*Courses:* History of Economics  
**2018-2019:** Clermont Auvergne University.  
*Courses:* 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 advanced workshop provides in-depth discussion of selected topics that are beyond what we can cover in the main workshop. The principal topics for 2025 are 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

## Awards and Fellowships (continued)

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

## Research

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### 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**, "Electricity 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

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**Ahmed Tritah**

Professor

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

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**Nathan Johnson**

Associate Professor

The Polytechnic School, Ira A. Fulton  
Schools of Engineering (ASU).

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**Raja Chakir**

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INRAE-AgroParisTech.

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