

## DIOUF Mboundor, Ph.D. candidate in Economics

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 @MboundorDiouf  Mboundor Diouf

## Research interests

- Natural resources, Energy, Conflict, Climate change, Urbanization, Development Economics, Big Data, Impact Evaluation, Randomized controlled trials (RCT), 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, energy access, environmental degradation and local economic development in Africa*.  
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 2024 – present ■ **Consultant**: Laboratory for Energy And Power Solutions ([LEAPS](#)), Arizona, US. Working on Madagascar Integrated Energy Planning. Clean cooking analysis component of integrated energy plan to provide clean and affordable energy access to all in Madagascar by 2030.
- 2021 – 2024 ■ **Associate Researcher**: [Energy and Prosperity Chair](#), [EIEA Chair \(CERNA and UM6P\)](#), [Institut interdisciplinaire de l'innovation \(Mines Paristech\)](#), the [CR-Sahel](#).
- 2018 – present ■ **Lecturer in Economics**, Sept-December 2024: University of Poitiers. Sept 2022-present: University of Paris 1 Panthéon-Sorbonne. 2018-2019: Clermont Auvergne University.
- Jan 2022–Aug 2022 ■ **Consultant**: Chair Energy and Prosperity, Paris, France.
- 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*




## Experience (continued)

- 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*

## Miscellaneous Experience

- 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](#).

## Skills

- Languages     English (fluent), French (native)
- Softwares     Stata, R (R Markdown, R Shiny, Machine Learning, Web Scrapping), Python, Eviews, QGIS, ArcGIS, Microsoft Office, L<sup>A</sup>T<sub>E</sub>X.
- Misc.     Academic research, Teaching, Training, and Consulting.

## 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    **M. Diouf**, T. Kemabonta, and N. Johnson, “Mining and power: Energy access in sub-saharan africa,” (*In progress*), 2024.
- 4    **M. Diouf** and A. Ly, “Electricity access and malaria in sub-saharan africa,” *Working Paper*, 2023.
- 5    **M. Diouf**, R. Chakir, and A. Tritah, “Under the canopy: Mining and deforestation in sub-saharan africa,” 2022.

### International Conferences

- 1    In *93rd Annual Meeting of the Southern Economic Association (SEA)*, New Orleans, LA, US, 18-20/11/2023.

- 2 In *CSAE Oxford Conference: Economic Development in Africa*, Oxford, UK, 2023.
- 3 In *Interdisciplinary Ph.D. Workshop in Sustainable Development (IPWSD)*, at Columbia University in the City of New York, US, 2023.
- 4 In *The 2023 Africa Meeting of the Econometric Society (AFES 2023)*, at the AERC in Nairobi, Kenya, 2023.
- 5 In *ICDE 2023: International Conference on Development Economics, AFEDEV*, at the Paris School of Economics in Paris, France, 2023.
- 6 In *Journées de Microéconomie Appliquée (JMA)*, at the University of Strasbourg, France, 2023.
- 7 In *International Conference on Economics and Business Roads to Sustainability (ICEBRS)*, at the Faculty of Economics of the University of Coimbra (FEUC), Portugal, 2023.
- 8 In *4th Conference on Econometrics for Environment (CE2-2022)*, Rabat, Morocco, 2022.

## References

### Ahmed Tritah

Professor

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

✉ [Ahmed.tritah@univ-poitiers.fr](mailto:Ahmed.tritah@univ-poitiers.fr)

### Nathan Johnson

Associate Professor

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

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### Raja Chakir

Professor

Paris Saclay Applied Economics,  
INRAE-AgroParisTech.

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