

# RESUME

## Mamadou SANOGO

PhD in Agricultural Economics, Louvain Catholic University, Belgium

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I am an agricultural economist with eight (08) years of professional experience. I have experience in public administration as an agricultural economist, working on agricultural sector development and promotion and capacity building of rural actors. As a researcher, I work on the adoption of agricultural innovations and impact assessment of development projects and programs.

### EXPERIENCES PROFESSIONNELLES

#### • Research

Post-doctoral researcher in Agricultural economics
<b>Project:</b> small-scale irrigation in Burkina Faso”, with partners (CIRAD, PRACTICA, ZALF, INERA, CISC, APESI) from 2020 to 2024
<b>Goal:</b> Identify ways to address the technical, financial, economic, organizational, and institutional constraints that limit the development of smallholder irrigation in Burkina Faso.
<b>Organization:</b> International Institute for Water, and environmental Engineering (2iE)
<b>Funds:</b> European Union, DeSIRA initiatives
<b>Period:</b> since january 2023
<b>Tasks/duties/</b> <ul style="list-style-type: none"><li>- To assess financial and economic cost of water cash basins (BCER) for supplementary irrigation and the small-scale irrigation (PIP)</li><li>- To assess the impact of BCER and PIP on farm production</li><li>- Identification of potential adopters</li><li>- Assessment of BCER and PIP scale-up</li><li>- To evaluate the innovative financing</li></ul>
PhD student researcher in agricultural economics
<b>Project:</b> Sustainable Intensification of Millet, sorghum, and maize by fertilizer microdosing project (MICROFERTI) in Burkina Faso <i>from 2017 to 2022</i>
<b>Goal:</b> Sustainably increase cereal production and the resilience of these production systems.
<b>Organization:</b> Institut de l’Environnement et de Recherche Agricoles (INERA) and Louvain Catholic University (UCLouvain)
<b>Funds :</b> Académie de Recherche et d’Enseignement Supérieur (ARES)
<b>Period:</b> 2017-2022
<b>Tasks/duties</b>

- Secondary data review.
- Sampling
- Design of quantitative and qualitative data collection tools (questionnaires, interviewers' notebook, budget, pre-survey).
- Recruitment and training of interviewers.
- Monitoring and quality control of data collection.
- Data processing and analysis with STATA.
- Reporting.
- Taking part in other activities of the project (meeting, master student supervision, teaching)
  - Chapters of my thesis
    - o Analyze the socio-economic and institutional adoption factors of fertilizer microdosing.
    - o Impact assessment of fertilization microdosing on farm production
    - o To analyze labor opportunity cost effect on the economic profitability of fertilizer microdosing
    - o Adoption and continue use of fertilizer microdosing factors (adopter cluster, farmers motivations)
    - o Farmers 'perceptions on fertilizer microdosing
    - o Endogenous strategies to adapt and mitigation of fertilizer microdosing risk factors.
    - o Farmers willingness to apply those strategies.

#### **Research Associate**

**Project:** *Sanitation Pricing for the Urban Poor in Burkina Faso, 2014-2017*

**Goal:** Design new pricing structures, and test and evaluate their impact on take-up of improved desludging services

**Organization/Institution:** Innovation for Poverty Action (IPA)

**Period:** November 14, 2015, to February 13, 2016

**Tasks/duties:**

- Monitor data collection teams in the field.
- Verify and analyze the quality of data collected using Stata.
- Perform data cleaning and preliminary analysis using Stata.
- Assist the Research associate in writing activities reports.

### • Experiences in Public and Private administration

#### **Advisor in agricultural economic studies and analysis,**

**Organization:** Rural Economic Office, Minister of Agriculture, Burkina Faso

**Period:** January 2017 to December 2022

**Tasks/duties:**

- Analysis of the economic competitiveness of value chains.
- Capacity building of farmers
- structuring of value chain rural farmers.
- Setting up agricultural innovation platforms (rice, potatoes, cassava, etc) through

- Support farmers to improve agricultural production and productivity through technology transfer techniques (farmer field schools, demonstrations, agronomic trials, etc.). Example: project to boost sesame production in Burkina Faso funded by JICA (Japan)
- Monitoring and evaluation of agricultural value chain development programs, e.g., the project to develop incubators and entrepreneurs in promising value chains
- Development and implementation of strategies and action plans for the improvement of agricultural value chains.

#### **Program facilitator**

**Organization:** Civil and Hydraulic Engineering Office (Bureau d'Ingénierie en Génie Civil et Hydraulique (BIGH)), « Supporting stakeholders and monitoring the implementation of the drinking Water Supply Infrastructure Management System Reform in rural and semi-urban areas »

**Period:** 5 octobre au 15 décembre 2015

#### **Tasks/duties:**

- Carry out an organizational and functional diagnosis of the Water User Associations (WUAs) in 41 villages in Burkina Faso.
- Assist the associations in obtaining administrative and financial documents.
- Train managers in the use of administrative and financial management tools.

#### **Program assistant**

**Organization:** Study and Research Group on Democracy and Economic and Social Development in Burkina Faso (Groupe d'Etudes et de Recherche sur la Démocratie et le Développement Economique et Social au Burkina Faso (GERDDES-Burkina)), a civil society organization that works on human rights:

- Contribution to gender-sensitive local governance: women's monitoring of local policies in ten (10) communities in Burkina Faso.
- Participatory democracy in ten rural communities in Burkina Faso.

**Period:** January 2012 to December 2013

#### **Tasks/duties**

- Participate in the development of the association's projects.
- Organize training workshops for field workers.
- Monitor and evaluate project activities in the communities.
- Collect and analyze data from the project monitoring/evaluation tool.
- Participate in the preparation of activity reports.

## • Consultation

#### **Economic consultant, mission head**

- Post-distribution monitoring (PDM) or post-payment survey of cash transfers for the Filets Sociaux project « Burkin-Naong-Sa ya » meaning « end of poverty in Burkina Faso », funded by the World Bank.
- Baseline survey of women members (shea kernel collectors) of cooperatives in Kayes, Koulikoro, Ségou and Sikasso, Mali funded by the World Bank.

**Année:** 2022

**Organization:** Innovative Hub for Research in Africa (IH/RA)

<b>Tasks/duties</b> <ul style="list-style-type: none"> <li>- Sampling</li> <li>- Supervision of the data collection</li> <li>- Data analysis</li> <li>- Report writing</li> <li>- Meeting participation</li> </ul>
<b>Economic Consultant</b>
Design the baseline at households' level: analysis of household survey data and reporting “, agro-ecological project (AGRO Tipaalga), convention « CIRAD, DANONE impact Project Tipaalga »
<b>Year:</b> 2017
<b>Organization:</b> Centre de Coopération Internationale en Recherche Agronomique pour le Développement (CIRAD)
<b>Tasks/duties</b> <ul style="list-style-type: none"> <li>- Typing the data</li> <li>- Data analysis</li> <li>- Report writing</li> </ul>
<b>Economic Consultant</b>
Impact assessment: <i>Zoo-economic study of livestock farms among the beneficiaries of FAO's " Petit Elevage" projects in Burkina Faso</i>
<b>Year:</b> 2016
<b>Organization:</b> Food and Agriculture Organization of the United Nations (FAO), Burkina Faso office
<b>Tasks/duties</b> <ul style="list-style-type: none"> <li>- carried out a literature review of FAO Burkina's "small livestock" projects from 2007 to 2014.</li> <li>- Design a questionnaire and define a sample.</li> <li>- Analyze the data collected in the communes of Kaya and Dori.</li> <li>- Write a comprehensive report</li> </ul>
<b>Technical expert</b>
Supporting promoters (farmers' organizations) in setting up a financing request to benefit from “FASBagré project, funded by the World Bank
<b>Year:</b> 2017
<b>Organization:</b> Maison de l'entreprise du Burkina (Burkina Enterprise Home)
<b>Tasks /duties</b> <ul style="list-style-type: none"> <li>- Prepare terms of reference (ToR).</li> <li>- Analyze technical and financial proposals and prepare reports.</li> <li>- Collect data.</li> <li>- Drafting the proposal.</li> </ul>

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## EDUCATION

**PhD in Agricultural economics, Catholic University of Louvain, Belgium, January 2022.**

- **Thesis:** *fertilizer microdosing in Burkina Faso: socio-economic determinants and risks mitigation strategies.* ».
- **Supervisors:** Pr. Frédéric GASPART (UCL-Belgique), Pr. Daniel KABORE (CAPES-Burkina).

**Master in Agricultural economics and Policy**, Programme de Troisième Cycle Interuniversitaire (PTCI), University of Ouaga 2 and University of Ghana, Legon, July 2015.

- *Thesis: adoption of fertilizer microdosing and credit access constraints: the case of sorghum in Burkina Faso.*
- *Supervisors: Prof Kimseyinga SAVADOGO (University of Ouaga 2); Dr Sibiri Jean-Baptiste TAONDA (CNRST- INERA).*

**Masters in economics, Macroeconomics**, University of Ouaga 2, Burkina Faso. June 2011.

**License in Economics, Macroeconomics**, University of Ouaga 2, Burkina Faso. June 2010

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## **Skills, training**

**Kobotoolbox, mobile data collection**, December to 5 to 10, 2022.

**Trainer training**, The *Toolbox* on Solar Powered Irrigation Systems (*SPIS*), water and Energy for food project (PEEPA/WE4F), GIZ, August 22 to 26 2022.

**Pedagogy « construction et transmission des savoirs »**, Louvain learning Lab de l'Université Catholique de Louvain, Belgium May 15 to June 29, 2021.

**Research methodology**, Centre Ouest Africain de Formation et d'Etudes Bancaires de la Banque Centrale des Etats de l'Afrique de l'Ouest (BCEAO) April 22 to 23, 2021.

**Multivariate analysis using SPSS**, Support en Méthodologique et Calcul Statistique (SMCS), Louvain Catholic University, Belgium, February 25 to March 1, 2019

**Multivariate analysis using R commander (FactoMiner)**, Support en Méthodologique et Calcul Statistique (SMCS), Louvain Catholic University, Belgium, January 25 to 26, 2018.

**Mobile Data collection (Survey CTO)**, Support en Méthodologique et Calcul Statistique (SMCS), Louvain Catholic University, Belgium, February 25 to March 1, 2019

**Leadership and management**, Cabinet Building Business January 19 to 21, 2021.

**Database management using ACCESS**, Cabinet International d'Etudes et de Renforcement de Capacités (CIERC) August 15, 2015.

**Ms Project Professionnel**, Cabinet International d'Etudes et de Renforcement de Capacités (CIERC) August 15, 2015.

**Learning English**, Burkina Faso, « English for Everyone », 2014.

**Learning English**, Language Center, Accra, University of Ghana, June 3 to July 18, 2014

**planification and management, monitoring and evaluation**, Diakonia, September 27 to 29, 2012.

**Climate change and environment**, « l'objectif environnemental », Diakonia May 22 to 24, 2012.

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## ARTICLES

1. **Mamadou Sanogo** Frederic Gaspart, Daniel Kabore, Sibiri Jean-Baptiste Taonda, Marie-Paule Kestemont (2020). “The determinants of fertilizer microdosing adoption and impact on sorghum and maize yields in Burkina Faso”. *Journal of Economics and Sustainable Development*. Vol.11, No.6. pp:144-122. <https://www.iiste.org/Journals/index.php/JEDS/article/download/52031/53767>
  2. **Mamadou Sanogo** Frederic Gaspart, Daniel Kabore, Sibiri Jean-Baptiste Taonda, Marie-Paule Kestemont (2020). “Analysis of labor opportunity cost on the economic profitability of fertilizer microdosing (FM) in Burkina Faso”. *Journal of Development and agricultural economics*. Vol.12, No.13. pp: 198-205. <https://doi.org/10.5897/JDAE2020.1165>
  3. **Mamadou Sanogo** Frederic Gaspart, Daniel Kabore, Sibiri Jean-Baptiste Taonda, Idriss Serme, Marie-Paule Kestemont, Charles Biolders (2022). “Farmers’ perceptions of fertilizer-microdosing adoption and continued use in Burkina Faso”. *African Journal of Agricultural Research*. Vol 18, No 11. pp: 907-918. <https://doi.org/10.5897/AJAR2022.16086>
  4. **Mamadou Sanogo** (2022), *Fertilisation microdose au Burkina Faso: déterminants socio-économiques et stratégies économiques de mitigation des risques (Thèse)*. Sciences agronomiques et ingénierie biologique, Unité d’économie rurale, Université Catholique de Louvain (UCLouvain), Belgique. Promoteurs: Gaspart, Frédéric ; Kabore, Daniel. <http://hdl.handle.net/2078.1/258241>
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## Languages and software

<b>Microsoft</b>	<b>Word</b>	<b>Excel</b>	<b>Powerpoint</b>
Level	High	High	High

<b>Software</b>	<b>Stata</b>	<b>SPSS</b>	<b>R</b>	<b>Kobotoolbox</b>	<b>Latex</b>
Level	Good	Good	Good	High	Good

<b>Langues</b>	<b>French</b>	<b>English</b>	<b>Bambara/diola</b>
Speaking	High	Good	High
Writing	High	Good	N/A
Reading	High	Good	N/A

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## Others

- Married with two children (a girl and a boy)
- Member of Ouaga Forum, Toastmaster Club.
- Ability to work in a multicultural, rural, and urban environment.

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## References

**Frédéric Gaspard**, Professor in Agricultural Economics, Rural economics Teams, Faculty of bioscience engineering, Louvain Catholic University, Croix du Sud 2/L7.05.15, 1348 Louvain-la-Neuve, Belgium, **Phone:** +32 104 736 78, **Email address:** [frederic.gaspard@uclouvain.be](mailto:frederic.gaspard@uclouvain.be)

**Bruno Barbier**, **Agricultural economist**, Researcher at CIRAD, IRRINN Project coordinator « Petite irrigation innovante au Burkina Faso », **Phone :** +33 (0)4 67 16 64 65/ +33(0)6 75 42 31 03 ; **Courriel address :** [bruno.barbier@cirad.fr](mailto:bruno.barbier@cirad.fr)

**Dial Niang**, Researcher-Lecturer, Hydrolyc and water ressources Laboratory, Institut International d'Ingénierie de l'Eau et de l'Environnement (2iE), IRRIN project Coordinator at 2iE, **Phone:** (+226) 70 29 27 00 / 75 22 02 65 ; **Email :** [dial.niang@2ie-edu.org](mailto:dial.niang@2ie-edu.org).

**I hereby certify that the statements made by me on this resume are complete and true.**

**Ouagadougou, November 11, 2023**



**Mamadou SANOGO**