

# AHMADOU SOW

Postdoctoral Researcher

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France

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## + ABOUT ME

As a motivated postdoctoral researcher with nine years of experience in agroecology, I thrive in scientific environments that prioritize data accuracy and improved diagnostics. Renowned for robust research, exceptional writing, and advanced experimental skills, I am dedicated to advancing knowledge within my field through reliability and precision.

## + EDUCATION

- UCAD & CIRAD  
Senegal  
2019  
**PHD DEGREE IN ANIMAL BIOLOGY SPECIALIZED IN INSECT ECOLOGY- MOLECULAR BIOLOGY**
- UCAD & CIRAD  
Senegal  
2013  
**MASTER'S DEGREE IN ANIMAL BIOLOGY SPECIALIZED IN ENTOMOLOGY**
- UCAD  
Senegal  
2012  
**BSC DEGREE IN BIOLOGY**

## + WORK EXPERIENCE

- INRAE, Université de Montpellier  
Montpellier, France  
**POSTDOCTORAL FELLOW**
  - Conducted research on the impact of environmental and climatic factors on insect pest dispersal, specifically the Oriental fruit fly (*Bactrocera dorsalis*).
  - Identified key environmental factors to minimize pest damage.
  - Utilized findings to inform effective pest management strategies.
- CERAAS and ZALF  
Thiès, Senegal  
**POSTDOCTORAL FELLOW**
  - Analyzed landscape and crop structure impacts on pest natural regulation
  - Identified climate influence on crop yield loss and natural regulation
  - Presented actionable insights for improved crop management strategies
- CIRAD  
Montpellier, France  
**POSTDOCTORAL FELLOW**
  - Pioneered climate-smart, sustainable pest management strategies for *Spodoptera frugiperda*
  - Developed innovative agro-ecological solutions for sustainable food production
  - Promoted and implemented eco-friendly agricultural practices

## + SKILLS

Entomology

Ecology

Geographic Information  
System (Qgis)

Agrecology

Data Management & Statistic  
Analysis (R)

Molecular Biology

## + LINKS

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### Web of Science

<https://www.webofscience.com/wos/author/rid/AAH-2354-2020>

## + LANGUAGES

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French

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English

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## + REFERENCES

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- **Pr. Thierry BREVAULT**  
CIRAD  
Email: [thierry.brevault@cirad.fr](mailto:thierry.brevault@cirad.fr)
  - **Dr. Karine Berthier**  
INRAE  
Email: [karine.berthier@inrae.fr](mailto:karine.berthier@inrae.fr)
- 
- Basic and Applied Ecology JAN 2022  
**NON-CROP HABITATS CONCURRENTLY DRIVE CROP COLONIZATION BY THE MILLET HEAD MINER AND REGULATION BY NATURAL ENEMIES**
  - African Entomology JAN 2021  
**FIRST RECORD, ELEMENTS FOR RECOGNITION AND BARCODING THE PREDATORY BUG, ORIUS MAXIDENTEX (HEMIPTERA: ANTHOCORIDAE), IN SENEGAL**
  - Insects JAN 2020  
**DNA METABARCODING AS A TOOL FOR DISENTANGLING FOOD WEBS IN AGROECOSYSTEMS**
  - Crop Protection JAN 2020  
**BIRDS AND BATS CONTRIBUTE TO NATURAL REGULATION OF THE MILLET HEAD MINER IN TREE-CROP AGROFORESTRY SYSTEMS**
  - Scientific Reports JAN 2019  
**DECIPHERING HOST-PARASITOID INTERACTIONS AND PARASITISM RATES OF CROP PESTS USING DNA METABARCODING**
  - Biological Control JAN 2019  
**EFFECT OF LANDSCAPE DIVERSITY AND CROP MANAGEMENT ON THE CONTROL OF THE MILLET HEAD MINER, HELIOCHEILUS ALBIPUNCTELLA (LEPIDOPTERA: NOCTUIDAE) BY NATURAL ENEMIES**
  - Biological Control JAN 2018  
**DNA SEQUENCING TO HELP IDENTIFY CROP PESTS AND THEIR NATURAL ENEMIES IN AGRO-ECOSYSTEMS: THE CASE OF THE MILLET HEAD MINER HELIOCHEILUS ALBIPUNCTELLA (LEPIDOPTERA: NOCTUIDAE) IN SUB-SAHARAN AFRICA**