

THIAM Mamadou — PhD of Atmospheric Physics and Climate

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RESEARCH INTEREST

Air-sea interaction in the Tropical Atlantic, rainfall and global Sea Surface Temperature teleconnection, rainfall forecast, coastal dynamics, numerical modelling.

EDUCATION

Sorbonne University (Paris, France) & Gaston Berger University (Saint-Louis, Senegal)
PhD of Atmospheric Physics and Climate , 2024

Gaston Berger University (Saint-Louis, Senegal)
MSc in Physical Oceanography, Atmosphere and Climate , 2021

Paul Sabatier University (Toulouse, France) & Abomey Calavi University (Cotonou, Benin)
MSc in Physical Oceanography and Applications , 2020

Cheikh Anta Diop University (Dakar, Sénégal)
Bachelor's degree in Physics and Chemistry , 2016

CONFERENCES & SEMINARS

Open Science Conference, WCRP, Kigali, Rwanda 23-27 Oct 2023
Global SST and Atmospheric Circulation Signal Associated Seasonal Rainfall in Senegal
Thiam, M., de Coetlogon, G., Wade, M., Diop, B., Farota, A. K.

Summer school Machine Learning for Ocean, Paris, France 28 Aug-2 Sept 2022

Complex Systems Modeling Conference, Paris, France) 18 Oct-05 Nov 2021
Oceanic Signals Predicting Seasonal Rainfall in Senegal
Thiam, M.

The 2021 Ocean Surface Topography Meeting, Online Meeting Oct 2020
An Assessment of Oceanic Large Scale Vertical Velocities in the Tropical Atlantic
Thiam, M., Lazar, A., Magnim, M.,

Tropical Atlantic Climate and COastal VARIability, Cotonou, Benin Sept 2019
TACCOVAR Conference

Sahel Heatwave and Health Impact Alert (ACASIS), Saint-Louis, Senegal) Oct 2018
What are the challenges in relation to the problem of heat waves in a region like the Sahel ?

PUBLICATIONS

PEER-REVIEWED JOURNALS.....

Thiam, M., de Coetlogon, G., Sarr, M., Wade, M., and Diop, B., 2024 (under review on QJRMS journal): Air-sea feedback in the northeastern tropical Atlantic in boreal summer at intraseasonal time scales .

Thiam, M., Oruba, L., de Coetlogon, G., Wade, M., Diop, B., and Farota, A. K., 2024: Impact of sea surface temperature in the north-eastern tropical Atlantic on precipitation over Senegal. *Journal of Geophysical Research: Atmospheres*, 129(3), e2023JD040513.

Wade, M., Thiam, M., Diba, I., Diop, B., 2021: Phenology and mechanisms of the early upwelling

formation in the southern coast of Senegal. African Journal of Environmental Science and Technology 15, no. 12 (2021): 529-539.

OTHER PUBLICATIONS

Thiam, M., Lazar A., Gnamah, M., 2020: Evaluation of Large-Scale Vertical Velocities in the Tropical Atlantic: Analysis of Linear Vorticity Balance. https://ostst.avisos.altimetry.fr/programs/abstracts-details.html?tx_ausyclsseminar_pi2%5BobjAbstracte%5D=3121&cHash=68e4ab1b4d610415c98485eb2905d646

SKILLS

Programming Language	MATLAB, PYTHON, FERRET, GrADS, CDO, NCO
Office Applications	Microsoft PowerPoint, Word, Excel, Open Office, LATEX
OS	Window, Linux (Ubuntu, Centos), shell bash, HPC
Language	Wolof, French, English

AWARDS and SCHOLARSHIP

- The "ODD Friendly" prize of the 4th ODD Summer School was awarded to Team 4 "Fruits 4 sustainability" organized by IRD (Institute of Research for Development, Aix-Marseille University, AFD (French Development Agency) and CRI (Interdisciplinary Research Center), July, 2021.
- Thesis grant from the International Doctoral Program-Modeling of Complex Systems, 2020-2023 (Senegal-France).
ERASMUS+ Mobility Grant, Benin-France, April, 2020.
- CEAMITIC Excellence Scholarship (African Center of Excellence in Mathematical Computing and TIC), Gaston Berger University, Senegal, 2018.

SUPERVISION OF INTERSHIP STUDENTS

- Moussa Ndiaye, "Phenology and Low-Frequency variability of the Angola-Benguela upwelling system" M2 Abomey Calavi University (Benin) and Paul Sabatier University (France), April to septembre, 2024.
- Abdoulaye Ndiaye, "Influence of Oceanic and Atmospheric Dynamics on Extreme and Moderate Rainfall Indices in West Sahel" M2 intership Gaston Berger University (Senegal), in progress.
- Boubou Borso Niang, "Study of the Low-Frequency Variability of the West African Coastal Upwelling: The Case of Mauritania" M2 intership Gaston Berger University (Senegal), in progress.

VOLUNTARY ACTIVITIES

- External relations officer of the Senegalese Association of Friends Nature, (2023-2024).
- President of the External Relations Committee of the Gaston Berger University Doctoral Collective (2022-2023).
- General Secretary of Climate and Water Student Unit, CECE , Saint-Louis/Senegal (2017-2018).

REFERENCES

- **De Coetlogon Gaelle**
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- **Diop Bouya**
Professor, Laboratoire des Sciences de l'Atmosphère et des Océans - Matériaux, Energies, Dispositifs (LSAO-MED)

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- **Lazar Alban**

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