

Dr. ALEXANDRE MAHOUGNON AUREL ZOUMMAN (Ph.D)

Multidisciplinary project manager and researcher with 10 years of experience in scientific research, international project coordination, and developing innovative solutions. Specialist in plant-microorganism interaction with strong expertise in molecular biology and laboratory research. Bilingual training facilitator. Passionate about sustainable development and inclusive technology. Seeking impactful opportunities to drive meaningful change.

Age	Nationality	Mobile	Address
33 years old	Bénin	+221772722627	Dakar, Senegal
Language	Driver Licence	E-mail	
Anglais C2	B +	zoummanaurel@gmail.com	

■ **Competences**

Project Management:

Strategic planning, financial management, impact analysis, and team coordination.

Research & Development:

Experimental protocols, data collection/analysis, writing of scientific publications in the fields of molecular biology, genetics, biotechnology, ecology, and climate change

Website creation:

No code webmaster, content management, and basic UX/UI.

Animation & Training:

Design and deliver bilingual (French/English) training courses for professionals and young audiences.

Technologies & Software:

JIRA, Trello, Power BI, MS Teams, QGIS, R, KOBOLLECT, Amplifix, SerialCloner, and ODK.

■ **Professional Experiences**

Project writing and Management

Project Manager (BMZ)

Aug 2025 → Nov 2025

- Authored and coordinated a climate resilience project in Africa, fostering youth engagement in environmental action.
- Obtained €9,000 in funding from the German Federal Ministry for Economic Cooperation and Development (BMZ).
- Implemented the project in collaboration with key partners, including the German Embassy, OXFAM, and the Delegation of the European Union.
- Managed media outreach, visibility, and communication strategy.
- Produced detailed financial and management reports to ensure transparency and accountability.

Project Manager (European union)

Mar 2025 → Jun 2025

- Designed and implemented a communication project promoting European Union initiatives, including the Global Gateway and Erasmus+ scholarships.
- Secured a grant of approximately €12,000 from the European Union to fund the initiative.
- Oversaw project execution, including financial management, reporting, and media communication.
- Prepared technical and financial reports, ensuring compliance with donor requirements.

Training facilitator consultant (Abuja Nigeria)

Facilitator (ASAF-African Student and Alumni Forum & MDF West Africa)

Jun 2024 → Dec 2024

- Led strategic and logistical planning for high-level training sessions and stakeholder engagements.
- Co-designed and developed training agendas and content in collaboration with regional and international partners.
- Facilitated bilingual sessions and ensured effective English–French translation during meetings and workshops.
- Developed and provided training support materials tailored to participant needs.
- Conducted monitoring, evaluation, and reporting (M&E) to assess training impact and ensure continuous improvement.

■ Professional Experiences

Research Assistant

CIRAD - French Agricultural Research Centre for International Development

Oct 2020 → Dec 2024

- Managed molecular aspects of research projects on tropical soils and agroecosystems.
- Led research on nature-based solutions (MAB) for soil salinization adaptation.
- Contributed to the preparation of scientific reports.
- Conducted literature reviews and synthesized scientific knowledge.
- Designed research protocols and planned experimental trials.
- Implemented and monitored laboratory, greenhouse, and field experiments.
- Collected and analyzed data, ensuring rigorous scientific methodology.
- Authored activity reports and contributed to scientific publications.
- Communicated and presented research findings at scientific events.
- Contributed to multiple research projects on microbial-based bioproducts (ACEPT MABs, VALID MABs, FSPI AGRECOCARIBE.)

IRD - French National Research Institute for Sustainable Development

Jan 2019 → Oct. 2020

- Participated in the development of research protocols.
- Conducted in vitro and in vivo experiments to enhance legume-rhizobacteria symbiosis.
- Contributed to the ANR SymEffectors research project.
- Analyzed and interpreted research data, leading to the writing and publication of scientific articles.
- Presented research findings at scientific events.
- Authored and defended a Master's thesis based on a subset of the SymEffectors project data.

Ministry of Secondary Education - Bénin

Teacher – Life and Earth Sciences (High School & Middle School)

Oct 2017 → Jul 2018

- Taught biology, geology, and environmental sciences to secondary school students.
- Designed and delivered engaging lessons aligned with the national curriculum.
- Implemented practical demonstrations and laboratory activities to enhance student learning.
- Assessed and monitored student progress, providing guidance and academic support.
- Developed and adapted teaching materials to improve comprehension and knowledge retention.

■ Scientific Publications

2025

Exploring Microbial Diversity in Forest Litter-Based Fermented Bioproducts and Their Effects on Tomato (*Solanum lycopersicum* L.) Growth in Senegal. *Int. J. Plant Biol.* 2025, 16, 55. <https://doi.org/10.3390/ijpb16020055>

2021

Identification of type III effectors influencing the symbiotic properties of *Bradyrhizobium vignae* strain ORS3257 with various *Vigna* species. Published in *SciRep* 11, 4874 (2021). Available at: <https://doi.org/10.1038/s41598-021-84205-w>

■ Education

Ph.D. in Plant Biology, option: Plant and Microbial Biotechnologies

Cheikh Anta Diop University

Dakar, Senegal

2022 → 2026

Master in Plant Biology, option: Plant and Microbial Biotechnologies

Cheikh Anta Diop University

Dakar, Senegal

2018 → 2022

Diploma in Environmental Management

Alison

2024

Bachelor's degree in Natural Sciences, option: Genetics, Biotechnologies and Natural Resources

University of Abomey-Calavi

2012 → 2015

■ Training & Certifications

Climate change: transitions to sustainability

The Open Learn University

Online

Monitoring and evaluation of a development project

Campus GROUPE AFD

Climate Finance, climate advocacy, and sustainable development

Jacob's Ladder Africa (Africa Youth Climate Finance Fellow Cohort 2025)

Calavi, Benin

Climate change adaptation

ITT - Technische Hochschule Köln

Project financial management

Project management fundamentals

Disasterready

Networking and stakeholder management

Board Management

Storytelling

ASAF

■ Volunteering, Leadership and social engagement

YAAC (Youth Alliance for Agroecology and Climate)

Co-founder and President

Nov 2024 → Now

- General coordinator of the network
- Lead the mangrove protection initiative
- Training design and implementation
- Climate education and climate initiatives

■ Volunteering, Leadership and social engagement

ASAF Board member

Internal Affaires Task Force Liaison officer

Oct 2022 → Dec 2024

Vice-President in Charge of regional coordination and integration

Dec 2024 → Now

■ References

Dr. Clémence CHAINTREUIL

Researcher (IRD)
(33) 677085535 / (221) 773810264.
clemence.chaintreuil@ird.fr

Mr. Hyppolite DOSSOU YOVO

Senior communicator (UMOA TITRE)
(221) 775012856
hyppolite.dy@gmail.com

Mrs. Dalila Aurel DOSSOU

Gender and Youth Advisor (OXFAM)
(221) 781524095
daliladossou24@gmail.com