

ALEXANDRE MAHOUGNON AUREL ZOUMMAN

Researcher & Project Manager | Specialist in Life Sciences, Climate Adaptation & Food Systems

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SUMMARY

Project manager and junior researcher with 8 years' experience in scientific research, international coordination and development of innovative solutions. Specialist in plant biotechnologies, climate change adaptation and sustainable food systems. Strong skills in website creation, bilingual training facilitation and multidimensional project management. Passionate about sustainable development and inclusive technological approaches.

KEY COMPETENCIES

Project Management: Strategic planning, financial management, impact analysis, team coordination.

Research & Development: Experimental protocols, data collection/analysis, writing of scientific publications in the fields of Molecular biologies, genetics, plant and soil biotechnology, ecology, and climate change

Website creation: WordPress development (Hostinger), content management, basic UX/UI.

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

Technologies & Software: JIRA, Trello, QGIS, R, KOBACOLLECT, Amplifx, SerialCloner, ODK, WordPress tools.

Languages: French (fluent), English (fluent), Fon (fluent), Mahi (fluent), Goun (fluent), Mina (medium).

PROFESSIONAL EXPERIENCES

Research Assistant

CIRAD (LMI IESOL/LEMSAT)

|Oct 2020 - Dec 2021

- Managed molecular aspects of research projects on tropical soils and agroecosystems.
- Led research on nature-based solutions for soil salinization adaptation.
- Coordinated research teams and 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, including ACCEPT MABs, VALID MABs, FSPI AGRECOCARIBE.

IRD (LMI LAPSE/LCM)

|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.

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

Ministry of Secondary Education - Bénin

|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.

EDUCATION

Cheikh Anta Diop University, Dakar, Senegal

Master in Plant Biology, option: Plant and Microbial Biotechnologies

University of Abomey-Calavi, Benin

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

TRAINING & CERTIFICATIONS

Campus GROUPE AFD

- Monitoring and evaluation of a development project |Jul 2025

Jacob’s Ladder Africa

Africa Youth Climate Finance Fellow

|Feb 2025 - Present

- Climate Finance
- Climate advocacy
- Sustainable development

ITT - Technische Hochschule Köln, Germany

|Sep - Oct 2024

- Climate change adaptation

Wageningen University & Research

|March - May 2024

- Resilient and sustainable food systems for Food Secure Future

Alison

- Diploma in Environmental Management |March 2024

Disasterready (online certificate)

- Project financial management |2023
- Project management fundamentals |2023

ASAF (African Students and Alumni Forum)

- Networking and stakeholder management |2023

SCIENTIFIC PUBLICATIONS

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>

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>

VOLUNTEERING, LEADERSHIP AND SOCIAL ENGAGEMENT

YAAC (Youth Alliance for Agroecology and Climate)

Co-funder and Chairman

|Nov 2024 - Present

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

ASAF (African Students and Alumni Forum)

Liaison Officer- In charge of Internal Affairs Task Force

|Dec 2024 - Present

Vice President- In Charge of Regional Cooperation and Integration

|Sept 2022 - Dec 2024

RJBD (Réseau des jeunes Béninois de la diaspora)

Member

|Sept 2023

REFERENCES

- **Dr. Clémence CHAINTREUIL**
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 - **Mr. Damien MOUZOUN**
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