



Aya Hmidi

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ABOUT ME

Engineer specializing in forestry and land use planning, with extensive expertise in GIS, remote sensing tools, and cartography. Skilled in analyzing geospatial data to support biodiversity conservation, environmental management, and sustainable land use strategies. Experienced in integrating advanced technologies to monitor ecosystems and assess forest health, with a focus on preserving biodiversity and maintaining ecological balance. Passionate about leveraging innovative geospatial solutions to enhance conservation efforts and promote sustainable management of forest ecosystems.

WORK EXPERIENCE

Volunteer

Local Association for People with Disabilities [10/2024 – 01/2025]

Country: Tunisia

Assisted in organizing and facilitating community events and workshops to promote inclusivity and raise awareness about disability rights.

Internship Project End of studies

Directorate General of Forests [02/2023 – 06/2023]

Country: Tunisia

- Automated forest stand mapping using multispectral data and supervised classification methods
- Used SEPAL platform for satellite images and OrfeoToolbox (OTB) for processing
- Utilized Support Vector Machines (SVM) and Random Forests (RF)
- Created a model in QGIS using the Model Builder to automate the classification process

Internship

National Research Institute of Rural Engineering Water and Forests (INRGRAF) [11/2024 – 01/2025]

Country: Tunisia

- Work in a laboratory of plant ecophysiology
- Focused on bibliographic research about climate change and how to measure the photosynthesis parameters in context of climate change research

Internship

Regional Agricultural Development Commissioner [07/2022 – 08/2022]

Country: Tunisia

- Sand encroachment and the conservation of the Saharan biodiversity
- Search for strategies that can be implemented to reduce or combat drought and desertification
- Management of Dghoumes national park

Internship

Agricultural Development Corporation [06/2021 – 08/2021]

Country: Tunisia

- An opportunity to put into practice what I learnt and to experience the working life and specifically the professional agricultural environment

EDUCATION AND TRAINING

Master Programme in Geoinformation in Environmental Management

CIHEAM MAIChania [10/2023 – 03/2024]

Country: Greece | Website: <https://www.iamc.ciheam.org/> | Level in EQF: EQF level 7

Forests and Land Use Planning Engineering/ Tunisia

National Agronomic Institute of Tunisia + Sylvo-Pastoral Institute of Tabarka [09/2020 – 06/2023]

Country: Tunisia | Website: <http://www.inat.tn/fr> <http://www.ispt.agrinet.tn/index.php?lang=fr> | Level in EQF: EQF level 6

Undergraduate degree in Biology and Geology

Preparatory Faculty of Sciences of Sfax [09/2018 – 07/2020]

Country: Tunisia | Website: <https://fss.rnu.tn/> | Level in EQF: EQF level 4

LANGUAGE SKILLS

Mother tongue(s): Arabic

Other language(s):

French

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

ArcGIS, ERDAS IMAGINE 2014, Global Mapper, ILWIS, QGIS, ENVI / Python Language - Basic knowledge / Microsoft Excel / Rstudio / JMP / SEPAL

COMMUNICATION AND INTERPERSONAL SKILLS

Active in IEEE and Junior Club

Event Planning: Organized and managed events such as student seminars, talent shows, and educational workshops, enhancing organizational skills.

Team Leadership: Led a team to successfully conduct technical competitions and hackathons, fostering a collaborative and innovative environment.

ForestMooCForChange

ForestMooCForChange is an introductory online course on CCF, covering various aspects of this innovative forestry method over eight weeks. The course features numerous field-based videos produced by experts, managers, and landowners. Each week, live sessions will be organized with the speakers, allowing participants to ask questions and engage in discussions about the topic of the week. From discovering CCF principles, its functioning, and dynamics to exploring economic, ecological, and social questions, the MOOC is designed to be comprehensive and accessible to everyone. Co-funded by the European Union, ForestMooCForChange is a collective initiative involving Die Arbeitsgemeinschaft Naturgemäße Waldwirtschaft (ANW) in Germany, Pro Silva France, Teagasc in Ireland, and Forêt.Nature in Belgium as the lead organization. The project aims to overcome these challenges by providing new

tools for European forest enthusiasts, enhancing their knowledge, skills, and awareness to meet the challenges posed by climate change

PROJECTS

[11/09/2024]

Innovation Champions for Climate Change (ICCC)

Chosen from 74 submissions, our project was selected to participate in the "How to Make Your Idea/Project Eco-Friendly" training, organized by Réseau Enfants De La Terre with support from UNICEF Tunisia. The initiative focuses on creating resilient and educational forests by engaging the local community, especially children, through interactive games. The goal is to raise environmental awareness and inspire future climate advocates through fun, immersive activities. This project highlights my commitment to sustainability and environmental education.

Links: https://drive.google.com/file/d/1rU1spdQVP5-HH9ORimMr03284uo9pN1_/view?usp=drivesdk | <https://drive.google.com/file/d/1uo0MLv1xpaoxqDkzjq0MZzVoLUKn2PnU/view?usp=drivesdk>

[03/2022]

Flora-Week

I participated in Flora-Week, organized by WWF and FAO, where I engaged in plant prospecting, sampling, and taxonomy in a forest environment. I helped identify and classify various plant species, contributed to herbarium creation, and took part in reforestation efforts to restore biodiversity. This hands-on experience enhanced my knowledge of botany and conservation practices.

HOBBIES AND INTERESTS

Camping, Hiking, Dancing and Cooking

My hobbies include camping and hiking, where I enjoy exploring nature and staying active outdoors. I also have a passion for dancing, which allows me to express creativity, and cooking, where I love experimenting with flavors and trying out new recipes. These activities keep me balanced and energized, combining adventure, creativity, and skill-building.