Mohamed BOURRIZ

Curriculum Vitæ

Center for Remote Sensing Applications
Mohammed VI Polytechnic University
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GitHub
Portfolio
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Education

2023-on	**Ph.D. in Remote Sensing**, Mohammed VI Polytechnic University , Morocco.
2019-2023	**Dipl.Ing. (MSc.) in Surveying and Geomatics Engineering**, Institute of Agronomy and Veterinary Medicine Hassan II, Morocco. [Thesis] [Slides]
2018-2019	**Preparatory Year for Higher Studies in Agronomy**, Institute of Agronomy and Veterinary Medicine Hassan II, Morocco.

Experience

2023-on — Ph.D. Student | Center for Remote Sensing Applications
Crop Mapping and Yield Prediction using Hyperspectral Imaging.

2023 — Research Trainee *(6 months)* | Helmholtz Institute Freiberg for Resource Technology
Development of a holistic open source processing pipe-line for drone base hyperspectral line scanning systems. *(MSc. Thesis).* [GitHub]
Supervisor(s): Dr. Sandra Lorenz, Dr. Samuel Thomas Thiele, Pr. Imane Sebari

2022 — Professionalization Internship *(1 month)* | Institute of Agronomy and Veterinary Medicine Hassan II
Professionalization and skill enhancement on various geospatial tasks, including the densification of a geodetic network through GNSS technology, topographic surveys, and applying photogrammetry techniques.

2019 — Nature Discovery Camp *(1 week)* | Institute of Agronomy and Veterinary Medicine Hassan II
A week of hiking in group of 12 following an itinerary established by the organizers using GPS and topographic maps to discover the fauna, flora, geological structure and the local population of the Middle Atlas region.

Project

2023 — Land Cover Mapping and Analysis in the Province of Berkane in Morocco: A Remote Sensing and GIS Perspective | Institute of Agronomy and Veterinary Medicine Hassan II
Comparison and evaluation of different classification approaches and methods to generate land use maps of the region to detect changes between 2000 and 2022. [GitHub]
Supervisor(s): Pr.Mohamed Rouchdi, Pr. Imane Sebari

2022 — Geoportal of the Moroccan National Parks | Institute of Agronomy and Veterinary Medicine Hassan II
Development of a geoportal from scratch that allows users to visualize the different national parks in addition to a 3D visualization of Mount Toubkal. [GitHub]
Supervisor(s): Pr. Hicham Hajji

2022 — Mapathon | 14th Geomundus conference
Mapping and Visualization of Rivers in the Iberian Peninsula Using Remote Sensing and GIS.

2022 — Modeling and Spatial GIS Analysis | Institute of Agronomy and Veterinary Medicine Hassan II
Modeling water erosion using the Universal Soil Loss Equation (USLE) model on ArcGis.
Supervisor(s): Pr.Mohamed Rouchdi

2021 — Conception and Construction of a UAV | Moroccan Association of Land Surveyor Students
Construction of two drones (a fixed wing and a quadcopter) from scratch including the conception and the Programming.
Supervisor(s): Pr. Imane Sebari

Skills

Computer and Softwares: Python, JavaScript, HTML, CSS, SQL, LaTeX, GEE, ArcGIS, QGIS, ENVI, Pix4dMapper, Agisoft.

Languages: English, French (Excellent); German (Beginner); Arabic (Nat.).

Awards

2023   **AgriChallenge Hackathon** | AgriChallenge
2nd place winner, The idea is to create a start up that uses digital twin technology in greenhouses to provide real time information about their conditions and monitor them more effectively and efficiently. ***Supervisor(s):*** Pr.Ait El Kadi Kenza.

Talks

Webinar
2024-01-11   **Machinery Ring in Africa**, *AgriEngage.* [Slides]

Webinar
2023-12-16   **The Use of Geomatics in Geological and Mining Applications**, *Senegalese National Network of Young Surveyors and Geomatics Professionals.* [Slides]

Memberships

IEEE Geoscience and Remote Sensing Society Student Membership (GRSS)

References

Dr. **Sandra Lorenz**, *Head Digital Processing Group Leader*, Helmholtz Institute Freiberg for Resource Technology, s.lorenz@hzdr.de.

Dr. **Samuel Thomas Thiele**, *Postdoctoral Researcher*, Helmholtz Institute Freiberg for Resource Technology, s.thiele@hzdr.de.

Pr. **Imane Sebari**, *Full Professor*, School of Geomatic Sciences and Surveying Engineering of Agriculture and Veterinary Medicine Institute Hassan II, i.sebari@iav.ac.ma.