



Soumia Bengoufa, PhD in Marine and Coastal Geosciences

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WORK EXPERIENCE

DEPUTY MANAGER-COPERNICUS IN SITU TAC – IFREMER – 09/09/2025 – Current – BREST, FRANCE

POSTDOCTORAL RESEARCHER – UNIVERSITÉ DE BRETAGNE OCCIDENTALE – 01/12/2022 – 31/08/2025 – BREST, FRANCE

ENGINEER RESEARCHER – UNIVERSITÉ DE BRETAGNE OCCIDENTALE – 01/03/2022 – 15/06/2022 – BREST, FRANCE

PHD CANDIDATE – ENSSMAL/IUEM – 04/12/2019 – 31/03/2021 – BREST, FRANCE

PhD Thesis: *Application of Remote Sensing Methods to the Assessment of Coastal Hazards and Vulnerability*

INTERNATIONAL MOBILITY – PROJECT COORDINATOR FOR A HUBERT CURIEN PARTNERSHIP (PHC) PROPOSAL – INSTITUT UNIVERSITAIRE EUROPÉEN DE LA MER/ LETG-BREST – 04/2018 – 06/2018 – BREST, FRANCE

ADJUNCT LECTURER – ÉCOLE SUPÉRIEURE DES SCIENCES DE LA MER ET DE L'AMÉNAGEMENT DU LITTORAL – 15/01/2017 – 06/2018 – ALGER, ALGERIA

PROJECT ASSISTANT – TECHNICAL ADVISOR FOR ENVIRONMENTAL GOVERNANCE AND BIODIVERSITY – GIZ- DEUTSCHE GESELLSCHAFT FÜR INTERNATIONALE ZUSAMMENARBEIT – 09/2017 – 03/2018 – ALGER, ALGERIA

EDUCATION AND TRAINING

11/2017 – 10/2021 Alger, Algeria

PHD IN MARINE AND COASTAL GEOSCIENCES École Nationale Supérieure des Sciences de la Mer et de l'Aménagement du Littoral (ENSSMAL)

20/10/2019 – 27/10/2019 Ostende, Belgium

CERTIFICATE IN OCEANOGRAPHIC DATABASE MANAGEMENT Intergovernmental Oceanographic Commission (IOC/IODE)

30/10/2018 – 06/12/2018 M'sida, Malta

CERTIFICATE IN OCEAN AND MARINE GOVERNANCE International Ocean Institute (IOI) et université de Malte

09/2011 – 06/2016 Alger, Algeria

ENGINEERING DEGREE AND MASTER'S DEGREE IN MARINE SCIENCES AND COASTAL MANAGEMENT École Nationale Supérieure des Sciences de la Mer et de l'Aménagement du Littoral (ENSSMAL)

LANGUAGE SKILLS

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ANGLAIS	C2	C1	C1	C1	C1
FRANÇAIS	C2	C2	C1	C2	C2
ARABE	C1	C1	C1	C1	B2

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

SKILLS

Analyse, gestion et visualisation des données

Data Analysis | Python | eCognition Developer (Trimble Geospatial) | Pytorch,Tensorflow | Software GIS (ESRI ArcGIS Desktop ESRI ArcGIS PRO ESRI ArcGIS Online QuantumGIS) | Intelligence artificielle et fouille de données (apprentissage, deep learning...) | DHI Software

PUBLICATIONS

2024
Harmonizing multicentric T1-weighted magnetic resonance imaging of children with ependymomas: can deep learning based image synthesis help?

Soumia Bengoufa et al.

2023
Automatic detection of hydrodynamical and biological indicators of the shoreline using a convolutional neural network.

S. Bengoufa, S. Niculescu, MK. Mihoubi, R. Belkessa, K. Abbad

2023
[Monitoring and Mapping Floods and Floodable Areas in the Mekong Delta \(Vietnam\) Using Time-Series Sentinel-1 Images, Convolutional Neural Network, Multi-Layer Perceptron, and Random Forest](#)

CN Lam, S Niculescu, S Bengoufa

2022
[Deep and machine learning methods for the \(semi-\) automatic extraction of sandy shoreline and erosion risk assessment basing on remote sensing data \(case of Jerba island-Tunisia\)](#)

A. Boussetta, S. Niculescu, S. Bengoufa, MF. Zagrarni

2022
[Spatio-temporal analysis of shoreline changes and erosion risk assessment along Jerba island \(Tunisia\) based on remote-sensing data and geospatial tools. \(\(Regional Studies in Marine Science - Elsevier\).](#)

A. Boussetta, S. Niculescu, S. Bengoufa, M.F. Zagrarnia,

2022
[Underwater trail: A tool for an integrated management of marine protected areas in the Western Mediterranean Basin. \(Regional Studies in Marine Science - Elsevier\).](#)

K. Abbad, R. Semroud, V. Andreu-Boussut, S. Bengoufa

2021

Rocky shoreline extraction using a deep learning model and object-based image analysis (ISPRS- The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences)).

S. Bengoufa, S. Niculescu, M.K. Mihoubi, R. Belkessa, K. Abbad,

2021

Machine learning and shoreline monitoring using optical satellite images: case study of the Mostaganem shoreline, Algeria. Journal of Applied Remote Sensing (SPIE).

S. Bengoufa, S. Niculescu, MK. Mihoubi, R. Belkessa, A. Rami, W. Rabehi

2020

Assessment of shoreline dynamics on the Eastern Coast of Algiers (Algeria): a spatiotemporal analysis using in situ measurements and geospatial tools. (Arabian Journal of Geosciences)

H. Otmani, R. Belkessa, S. Bengoufa, W. Boukhediche, N. Djerrai, K. Abbad,