

M.SC. Amina BACCAR CHAABANE

Master – Biology of Aquatic Ecosystems

PhD Candidate - Marine Litter

(Rostock University - Germany / Leibniz Institute for Baltic Sea Research – IOW)

CIVIL STATE

Nationality: Tunisian

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PROFESSIONAL

§ IOW (Leibniz Institute for Baltic Sea Research Warnemünde) – Scientific researcher [January 2018~ December 2018]

Project	MicroCatch_Balt / BONUS MICROPOLL
Description	Evaluate the status of the Warnow Estuary - Rostock in term of pollution with Micro – Meso and Macro litter and detection of the emission sources to carry out different simulation models.
Activities	<ul style="list-style-type: none">• Field work:<ul style="list-style-type: none">- Sampling in different stations in the Warnow estuary by boat, starting next the harbor into the direction of Baltic Sea, using the Rocket, the 5µm and 10 µm nets.- Sampling in different stations in rivers with the Rocket.- Sampling after main events (Hanse Sail and New year's eve) with the 300µm Manta trawl.- Sampling with the Sand Rake method in Warnemünde beach.- Applying the "Flood accumulation zone" method in different beaches around the Warnow Estuary and in Warnemünde beach.• Laboratory work:<ul style="list-style-type: none">- Analyze of samples from different stations with the MicroPHAZIR.- Configuration of the KWS (Electro separator)• Data Base collection.• Presentation of the current work during the Girls Day in the Institute.

§ Consultant

Organization	The Heinrich-Böll-Stiftung Foundation North Africa Tunis
Description	<p>Reporting about the marine litter problem (plastics and microplastics) in Tunisia:</p> <ul style="list-style-type: none"> - Monitoring in some Tunisian beaches, using the OSPAR method (for 100 m) and the "Flood accumulation zone" method, in order to quantify and qualify the litter existing, during summer time. - Presentation of Tunisian status in relation with marine pollution. - A highlight on problems caused by pollution with plastics and microplastics. - Development of recommendations.

§ IOW (Leibniz Institute for Baltic Sea Research Warnemünde) – Scientific assistant [August 2017~ December 2017]

Project	MicroCatch_Balt: One System: Analyzing microplastics sinks and sources from a typical catchment area to the open Baltic
Description	MicroCatch_Balt will focus on the determination of inland sources and sinks of microplastics (MP) and the relevant fate processes on its pathways to the open Baltic Sea within the exemplary Warnow catchment area. It will provide a unique set of coupled models covering the entire catchment area together with the estuary and coastal waters.
Activities	<ul style="list-style-type: none"> • Sampling in different stations in the WARNOW ESTUARY and for some main events (Summer, Hanse Sail) <ul style="list-style-type: none"> - Cigarette sampling with 2 methods: method of the circles (for the boxes and for hotspots) and the OSPAR method for 100 m. - Sampling the litter with OSPAR method for 100m. - Identification and classification of the samples. - Sampling with nets (different sizes of nets). - Sampling with the 10²m method. • Introduction to MicroPHAZIR. • Laboratory work: <ul style="list-style-type: none"> - Classification of plastic samples. - Identification of microplastic by the "spying" method - Identification of microplastics with the MicroPHAZIR.

ACADEMIC

§ University of Rostock – Faculty of Mathematics and Natural Sciences – Rostock, Germany – PhD [Planned from January 2019]

Ø Topics:

- Drone based monitoring of floating litter in the estuarine environment;
- Decomposition of selected (degradable) plastic items in the estuarine environment;
- Application of monitoring methods to Tunisia.

§ FST (Faculty of Sciences of Tunis) – University of Tunis El Manar – Tunis, Tunisia – Master – Biology of Aquatic Ecosystems [2013~ 2015]

Ø Internship, Master's project, Technical center for aquaculture (international cooperation with Republic China), Tunis / Mahdia, 9 months, Breeding of a species of shrimp: *Penaeus vannamei*;

Project	Shrimp Farming Project in Meloulèche Governorate of Mahdia-Tunisia
Description	It is a pilot project that has been carried out in technical cooperation with the Republic of China. The aim of this initiative is to carry out a pilot project for the breeding of <i>Penaeus vannamei</i> in Tunisia, specifically in Melloulech region of Mahdia governorate.
Activities	<ul style="list-style-type: none">- Monitoring of physico-chemical parameters.- Monitoring of biometrics- Control of the conditions of reproduction- Food characterization

Ø Field visits:

- Governorate of Bizerte: Ghar el Melah and Rafrat:
 - Sustainable Coastal Planning;
 - Identification of local species (fauna);
 - Visit to Ichkeul National Park to learn about protected species in Tunisia and their living conditions.
- Governorate of Nabeul:
 - Beach of Soliman: Sustainable management and coastal morphology / Diving for the exploitation of benthic flora.

§ FSS (Faculty of Sciences of Sfax) – University of Sfax - Sfax, Tunisia - License Science of life and the environment [2010 ~ 2013]

Ø Field visits:

- Redevelopment of the coast of Sfax: Taparura Project – Sfax;
- Park Bouhedma Sidi Bouzid / Exploration of terrestrial fauna and flora.

§ **Baccalaureate – June 2010 – Mathematics (Habib Maazoun School-Sfax-Tunisia)**

TRAININGS

- § Marine Ecology and Sustainable development (2014)
- § Strategic planning: Based Results Management (2013)

SOCIAL COMMITMENT

- § Active member: Youth Science Association (Tunisia)
- § Member: Environmental Club – ISBS (Tunisia)
- § Member: Tunisian Mediterranean Environmental Association (Tunisia)

SKILLS

§ Languages:

- Arabic/French/English: Fluent
- German: B1 Level

§ IT Software:

- Microsoft Office (Word, Excel, PowerPoint, etc.)

§ Data Base program:

- MySQL for Excel

§ First-aid diploma: German Red Cross

QUALITIES

- § Fully engaged to work;
- § A passion for the marine field;
- § Perseverance and innovation.

OUT OF WORK

- §Hobby: Environment & Ecology;
- §Status: Married

REFERENCE

- § Prof. Dr. habil. Gerald Schernewski, IOW Institut
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