DETAILED CURRICULUM VITAE

Béchir Béjaoui

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SUMMARY

CURRICULUM VITAE

Name: Béchir
Surname: Béjaoui
Date/Place of birth: 23/01/1971
Family status: Married
Nationality: Tunisian

Personal address: 41, Cité Tahrir Menzel Abderrahman 7035, Bizerte, Tunisia.
Tél. Dom: +216 72 57 04 13
Tél. Mob: +216 98 37 98 39

Professional Address: **I**nstitut **N**ational des **S**ciences et **T**echnologies de la **M**er (INSTM). 28 rue 2 Mars 1934, Salammbô 2025, Tunisie.
Tél. : +216 71 73 04 20 / +216 71 73 04 58
Fax: +216 71 73 26 22
Email1: bejaoui.bechir@gmail.com
Email2: bejaoui.bechir@ymail.com
Email3 :bejaoui.bechir@instm.rnrt.tn

Situation professionnelle

Lecturer in Ocean Fluid Mechanics (Numerical Modeling in Physics/Dynamic and Biogeochemical Modeling) at the National Institute of Marine Sciences and Technologies (INSTM).

Field skills

Hydrodynamic, bio-geochemical and sediment transport modeling of the marine, coastal and lagoon systems.

Qualifications

I. Diplomas

University Habilitation Diploma in Hydraulic Engineering from the National School of Engineers of Tunis (ENIT), Mention: **Very Honorable**, September **2019**.

PhD Thesis, National Engineering School of Tunis (ENIT), Hydraulic Engineering, with the very Honorable Mention, April **2009**.

Master Diploma, National Engineering School of Tunis (ENIT), Hydraulic and Environment Modeling, February **2001**.

Engineering Diploma, National Engineering School of Tunis (ENIT), Civil Engineering, July **1997**.

II. Academic studies

2013-2019: University Habilitation. The subject is entitled: *Caractérisation & fonctionnement des écosystèmes marins par une approche de modélisation numérique.*

2002 - 2009: PhD thesis, supervised by Moussa M. Professor at ENIT and Harzallah A. Professor at INSTM. The PhD thesis is entitled: *Développement d'un Modèle Tridimensionnel Couplé Dynamique-Ecologie : Application à la Lagune de Bizerte.*

1998-2001: Preparation of master thesis under the supervision of Raïs S., Professor at ENIT. The master thesis is entitled: Modélisation de la dispersion des polluants en mer – Cas des rejets de phosphogypse dans le Golfe de Gabès.

1997-1998: Master courses in Hydraulic and Environment Modeling (MHE) (1st year of master cycle).

1996-1997: Master courses in Hydraulic and Environment Modeling (MHE, 3rd year at ENIT) finished by a National Engineer Diploma in Civil Engineering, option Modélisation Hydraulique et Environnement (Bac+5).

1994-1996: Courses in Civil Engineering (1st and 2nd year) at ENIT achieved by a National Diploma in Civil Engineering, Option: Modélisation Hydraulique et Environnement (Bac+5).

1992-1994: Two years in the Engineering Preparatory School of Nabeul (Scientific preparation), achieved by a success in the National competitive entry examination to Engineering schools.

III. Post-Doctoral/Fellowship

Postdoc I : September 1st - November 30th 2016
Fellowship at Fisheries Economics Research Unit (FERU, UBC) at the Institute for the Oceans and Fisheries at University of British Columbia. The fellowship is funded by the International Agency of Atomic Agency (IAEA) and hosted by Fisheries Economics Research Unit (FERU, UBC). The supervisor of the fellowship is Pr. R. Sumaila, Director of the Fisheries Economics Research Unit (FERU).

Postdoc II : November 1st 2009 - Mars 31th 2010
Fellowship at the Maurice Lamontagne Institute (IML, Fisheries and Oceans Canada) at Mont-Joli (QC) within the Direction of the Oceanic Sciences and the Environment (DSOE) from 1st November, 2009 until 31 Mars 2010. The objective of the fellowship is to develop and to couple an acidity model (pH) to a 3D bio-geo-chemical model of the Gulf of Saint Lawrence (Canada). The Post-Doc was supervised by **Drs Michel Starr**, **Diane Lavoie** and **Joel Chassé**.

Postdoc III : June 1st – August 29th 2018
Fellowship at the "National Institute of Oceanography and Experimental Geophysics Trieste (OGS), Italy" from June 01 to August 29, 2018. The purpose from the postdoc was to develop an acidity model for the Gulf of Gabes. The Postdoc was funded by the International Center for Theoretical Physics ICTP.

IV. Professional Experience

From **July 29th2022** until **now: Researcher/Lecture** (in Dynamic and Biogeochemical Modeling) in the National Institute of Marine Science and Technologies (INSTM).

From **May 30th2013** until **July 28th2022: Researcher/Associate Professor** (in Dynamic and Biogeochemical Modeling) in the National Institute of Marine Science and Technologies (INSTM).

From **October 02nd2006** until **Mai 29th 2013**: **Researcher/Assistant** (in Dynamic and Biogeochemical Modeling) in the National Institute of Marine Science and Technologies (INSTM).

From **May 22th 2000** until **08th May 2007**: **Trainer** at Training Sectorial Centre in civil Engineer of Mornaguia (CSFTPM)/The Tunisian Professional Training Agency, ATFP).

From **December 1st1998** until **May21th 2000**: **Engineer** at Coastal Protection and Land Planning Agency (APAL), Minister of Environment and Sustainable Development.

V. Training

1. From **01** to **31 July 1995** : Internship in the Circuit d'Exploitation & SCE Laboratoire d'Etudes et Réalisation, Cimenterie de Bizerte.
2. From **08 July** to **08 August 1996** : Internship in the Direction Régionale du Ministère d'Equipement et de l'Habitat (MEH) à Bizerte dans le Département de Génie Civil.
3. From **01st December 1997** to **30 November 1998**: Internship in Agence de Protection et d'Aménagement du Littoral (**APAL**), Minister of Environment and Sustainable Development.
4. From **16th August 2001 to 11th September 2000**: Internship in the Institut des Sciences de la Mer de Rimouski au Laboratoire d'Hydrodynamique (ISMER, Canada) within **PRICAT** program (Canadian Program for Institutional Reinforcement in Tunisia) on Hydrodynamic Modeling (***Supervisor: Professor Vladimir G. Koutitonsky***).
5. From **01st**to **05th December 2003**: Internship in the IFREMER (Institut Français de l'Exploitation de la Mer, France) at the Brest Centre on the Mediterranean lagoons modeling (***Supervisor: Dr. Annie Chapelle***).
6. From **17th**to **29th January 2005**: Internship in the CENNAFFIF on Educational Methods.
7. From **01st** to **15th September 2006**: Internship in the **IFREMER** (Institut Français de l'Exploitation de la Mer), France**),** at the **Sète** station on the Dynamic and Ecological modeling of lagoons (***Supervisor: Dr. Annie Fiandrino****).*
8. From **08th** to **10th February 2007:** Internship on Statistical Methods for Biology and Medicine. The training is organized by le laboratoire Toxicologie Marine et Environnement (TME) & l'Association Université Environnement (AUE), February 8-10 2007. *The training is ensured by Prof.* ***Ahmed Rebai.***
9. From **14th June** to**15th August 2007**: Internship in Operational Oceanography. The Training is organized by **Nippon Foundation** from 14 June to 15 August 2007 at the National Institute of Marine Science and Technologies (INSTM), within the **Nippon Foundation-POGO** Visiting Professorship Program. *The training is ensured by: Prof* ***Vladimir G. Koutitonsky****,* ***NP-POGO*** *Visiting Professor.*
10. From **08th** to **13th June 2009:** Internship on **Coupled Ecological Modeling** in Malta from 8 June to 13 June within the SESAME project. The training was organized by Physical Oceanography Unit/IOI Malta Operational Centre/University of Malta and was sponsored by the MathWorks and Black Sea Commission. The course organiser is **Prof. Aldo Drago (University of Malta)** and the Course coordinator is **Prof. Marco Zavaterelli (University of Bolgna).**
11. From **10th** to **19th July 2017:** Internship on Advanced Training School on Sustainable Blue Growth in Mediterranean and Black Sea countries, Trieste 10-19 July 2017.
12. From **11th** to **12th April 2018:** Internship on *Développement Territorial Intégré pour la Délivrance de Services Publics en Méditerranée*, 11 et 12 April 2018 Region Occitania in Morocco.

Scientific Production

I. Book Chapter

1. **Béjaoui B.**, Harzallah A., Moussa M., **2009**. Modélisation Couplée Hydrodynamique-Biogéochimique-Application à la Lagune de Bizerte (Nord de la Tunisie). Edition Universitaires Européennes (EUE). Produit en Allemagne : Schaltungsdienst Lange o.H.G., Berlin, Books on DemandGmbH, Norderstedt, RehaGmbH, Saarbrucken, Amazon DitributionGmbH, Leipzig, ISBN:978-3-8417-9434-5, p 312.
2. Aleya L., **Béjaoui B.**, Dhib A., Ziadi B., Fertouna-Bellekhal M., Helali M.A, Khedri I., Oueslati W., Ennouri R., Yamashita C., Zaaboub N., Othmani A., El Bour M., Trabelsi L., Abdel-Daim M.M., Galgani F., Martins M.V.A., Turki S., **2018**. Tunisia in World Seas: An Environmental Evaluation – Vol. 1.

   Lien du livre est : https://www.elsevier.com/books/world-seas-an-environmental-evaluation/sheppard/978-0-12-805068-2

II. Scientific publications

II.1. Scientific articles

1. **Béjaoui B.,** Brahim M., Ben Mouelli I., Rais S., **2002**. Modélisation de l'évolution du trait de côte et de la protection du littoral dans le golfe de Tunis. Bulletin de l'Institut National des Sciences et Technologies de la Mer de Salammbô, 29, 41-52.
2. **Béjaoui B.**, Rais S., V. G. Koutitonsky, 2004. Modélisation de la dispersion du phosphogypse dans le Golfe de Gabes. Bulletin de l'Institut National des Sciences et Technologies de la Mer de Salammbô, 31, 103-109.
3. **Béjaoui B.**, Ben Charrada R., Moussa M., Ben Hamadou R., Harzalah A., Chapelle A., **2005**. Caractérisation hivernale de la lagune de Bizerte. Bulletin de l'Institut National des Sciences et Technologies de la Mer de Salammbô, 32, 79-91.
4. Brahim M., Vladimir K. G., **Béjaoui B.**, Sammari C., **2007**. Simulation numérique du transport de sable sous l'effet des vents dans le golfe de Tunis. Bulletin de l'Institut National des Sciences et Technologies de la Mer de Salammbô, 34, 157-165.
5. Boukef I., El Bour M., El Mejri S., **Béjaoui B.**, Mraouna R., Harzallah A., Boudabous A., **2008**. Etude de l'influence des facteurs environnementaux sur la répartition des différentes populations bactériennes dans une station mytilicole de la lagune de Bizerte (Northern-Tunisia). Journal of water science. 22, 79-91.
6. **Béjaoui B.**, Harzallah A., Moussa M., Chapelle A., Solidoro C., **2008**. Analysis of hydrobiological pattern in the Bizerte lagoon (Tunisia). Estuarine, Coastal and Shelf Science, 80, 121-129.
7. Boukef I., Elbour M., **Béjaoui B.**, Harzallah A., Belhassen M., Mraouna R., Mejri S. et Boudabous A., **2008**. Effet des facteurs environnementaux sur la distribution bactérienne entérique dans la lagune de Bizerte (nord de la Tunisie). Bulletin de l'Institut National des Sciences et Technologies de la Mer de Salammbô, 35, 117-129.

8. Brahim M., **Béjaoui B.**, Atoui A., **2008**. Etude de la dynamique des sédiments dans la lagune de Bizerte. Bulletin de l'Institut National des Sciences et Technologies de la Mer de Salammbô, 35, 149-160.
9. **Béjaoui B.**, Harzallah A., Moussa M., Chapelle A., **2008**. Modèle couplé dynamique-écologique pour la lagune de Bizerte. Bulletin de l'Institut National des Sciences et Technologies de la Mer de Salammbô, 35, 131-148.
10. **Béjaoui B.**, Ferjani D., Zaaboub N., Chapelle A., Moussa M., **2010**. Caractérisation hydrobiologique saisonnière de la lagune de Bizerte (Tunisie). Revue des Sciences de l'Eau 23 (3), 215-232.
11. Armi Z., Trabelsi E., Turki S., **Béjaoui B.**, Ben Maiz N., **2010**. Seasonal phytoplankton responses to environmental factors in a shallow Mediterranean lagoon. Journal of Marine Science Technologies, 15 (4), 417-426.
12. Boukef I., **Béjaoui B.**, Bel Hassen M., Mraouna R., Got P., Harzallah A., Elbour M., **2012**. Répartition spatiale et taux de décomposition des coliformes dans les sédiments et la colonne d'eau de la lagune de Bizerte.Vie et Milieu, 62 (1), 29-36.
13. Messaoudi S., **Béjaoui B.**, Akrout F., Bel Hassen M., Sammari C., **2013**. Exploration of the Reactivity of N_2O5 with two $Si(OH)_4$ Monomers using Electronic Structure Methods. International Journal of Quantum Chemistry, 113, 1633–1640.
14. Mouldi B., Abdelfattah A., **Béjaoui B.**, **2013**. Hydrodynamique sédimentaire de la lagune de Bizerte. Revue Paralia, 6, 11.15-11.28.
15. Zaaboub N., Ounis A., Helali M. A., **Béjaoui B.**, Lillebø A. I., Ferreira da Silva E., Aleya L., **2014**. Phosphorus speciation in sediments and assessment of nutrient exchange at the water-sediment interface in a Mediterranean lagoon: Implications for management and restoration. Ecological Engineering, 73, 115–125.
16. Fertouna-Bellakhal M., Dhib A., **Béjaoui B.**, Turki S., Aleya L., **2014**. Driving factors behind the distribution of dinocyst composition and abundance in surface sediments in a western Mediterranean coastal lagoon: Report from a high resolution mapping study. Marine Pollution Bulletin, 84 (1-2),347-362.
17. Béjaoui-Omri A., **Béjaoui B.**, Harzallah A., Aloui-Béjaoui N., El Bour M., Aleya L., **2014**. Dynamic energy budget model: a monitoring tool for growth and reproduction performance of Mytilus galloprovincialis in Bizerte Lagoon (Southwestern Mediterranean Sea). Environmental Science and Pollution Research, 21, 13081-13094.
18. Zaaboub N., Martins M., Dhib A., **Béjaoui B.**, Galgani F., El Bour M., Aleya L., **2015**. Accumulation of trace metals in sediments in a Mediterranean Lagoon: Usefulness of metal sediment fractionation and elutriate toxicity assessment. Environmental Pollution, 207, 226-237.
19. **Béjaoui B.**, Armi Z., Ottaviani E., Barelli E., Gargouri-Ellouz E., Chérif R., Turki S., Solidoro C., Aleya L., **2016**. Random Forest model and TRIX used in combination to assess and diagnose the trophic status of Bizerte Lagoon, southern Mediterranean. Ecological Indicators, 71, 293–301.
20. **Bejaoui B.**, Solidoro C., Harzallah A., Chevalier C., Chapelle A., Zaaboub N., Aleya L., **2017**. 3D Modeling of phytoplankton seasonal variation and nutrient budget in a southern Mediterranean Lagoon. Marine Pollution Bulletin, 114, 962-976.

21. Othmani A., **Béjaoui B.**, Chevalier C., Elhmaidi D., Devenon J. L., Aleya L., **2017**. High-resolution numerical modelling of the barotropic tides in the Gulf of Gabes, eastern Mediterranean Sea (Tunisia). Journal of African Earth Sciences, 129, 224-232.

22. Feki-Sahnoun W., Hamza A., **Béjaoui B.**, Mahfoudi M., Rebai A., Bel Hassen M., **2018**. Multi-table approach to assess the biogeography of phytoplankton: ecological and management implications. Hydrobiologia, 811, 1, 1-23.

23. **Béjaoui B.**, Ottaviani E., Barelli E., Ziadi Z., Dhib A., Lavoie M., Gianluca C., Turki S., Solidoro C., Aleya L., **2018**. Machine learning predictions of trophic status indicators and plankton dynamic in coastal lagoons. Ecological indicators, 95, 765–774.

24. Lavoie M., Duval J.F. L., Raven J. A., Maps F., **Bejaoui B.**, Kieber D.J., Vincent W. F., **2018**. Carbonate Disequilibrium in the External Boundary Layer of Freshwater Chrysophytes: Implications for Contaminant Uptake. Environmental Science & Technology, 52, 16, 9403–9411.

25. Newton A., Brito A. C., Icely J. D., Derolez V., Clara I., Angus S., Schernewski G., Inácio M., Lillebø A. I., Sousa A. I., **Béjaoui B.**, Solidoro C., Tosic M., Cañedo-Argüelles M., Yamamuro M., Reizopoulou S., Tseng H., Donata C., Roselli L., Maanan M., Cristina S., Ruiz-Fernández A. C., Lima R., Kjerfve B., Rubio-Cisneros N., Pérez-Ruzafa A., Marcos C., Pastres R., Pranovi F., Snoussi M., Turpie J., Tuchkovenko Y., Dyack B., Brookes J., Povilanskas R., Khokhlov V., **2018**. Assessing, quantifying and valuing the ecosystem services of coastal lagoons. Journal for Nature Conservation, 44, 50–65.

26. **Béjaoui B.**, Ben Ismail S., Othmani A., Ben Abdallah-Ben Hadj Hmida O., Chevalier C., Feki-Sahnoun W., Harzallah A., Ben Hadj Hmida N., Bouaziz R., Dahech S., Diaz F., Tounsi K., Sammari C., Pagano M., BelhassenM., **2019**. Synthesis review of the Gulf of Gabes (Eastern Mediterranean Sea, Tunisia): Morphological, Climate, Physical oceanography, Biogeochemical and Fisheries features. Estuarine, Coastal and Shelf Science, 219, 395–408.

27. Newton A., Icely J., Cristina S., Perillo G., Turner R., Ashan D., Cragg S., Luo Y., Tu C., Li Y., Zhang H., Ramesh R., Forbes D., Solidoro C., **Béjaoui B.**, Gao S., Pastres R., Kelsey H., Taillie D., Nhan N., Brito A., de Lima R. Kuenzer C., **2020**. Anthropogenic, Direct Pressures on Coastal Wetlands. Frontiers in Ecolgy and Evolution, 8:144.

28. Lavoie Diane, Lambert Nicolas, Starr Michel, Chassé Joël, Riche Olivier, Le Clainche1 Yvonnick, Azetsu-Scott Kumiko, **Béjaoui Béchir**, R. Christian, James, Gilbert Denis, **2021**. The Gulf of St. Lawrence Biogeochemical Model: A Modelling Tool for Fisheries and Ocean Management, Front. Mar. Sci. 8:732269.

29. **Béchir Béjaoui**, Leila Basti, Donata Melaku Canu, Wafa Feki-Sahnoun, Hatem Salem, Sana Dahmani, Sabrine Sahbani, Sihem Benabdallah, Reginald Blake, Hamidreza Norouzi, Cosimo Solidoro, **2022.** Hydrology, biogeochemistry and metabolism in a semi-arid mediterranean coastal wetland ecosystem. Scientifc Reports, 12:9367, https://doi.org/10.1038/s41598-022-12936-5

30. Sabrine Sahbani, **Béchir Béjaoui**, Sihem Benabdallah, Rachid Toujani, Afef Fathalli, Noureddine Zaaboub, JalelAouissi, Zeineb Kassouk, Nabil Hamdi, Nabiha Ben Mbarek, Hechmi Missaoui, Leila Basti, Reginald Blake, Hamid Norouzi, **2022**. Systematic Review of a RAMSAR Wetland and UNESCO Biosphere reserve in a climate change hotspot (Ichkeul Lake, Tunisia). Journal of Sea Research, 190(3):102288.

31. Kamila Baba-Ahmed, **Béchir Béjaoui**, Wafa Feki-Sahnoun, Noureddine Mechouk, Zihad Bouslama, Hafedh Abdelmelek, **2023**. Influence of Earth Magnetic Field on Animal Nervous System Evolution. Journal of Complementary Medicine Research, ISSN: 2146-8397, Vol. 14, No. 1, 127-132.
32. Nadia Gaaloul, Oula Amrouni, Essam Heggy, Nessim Douss, Abderraouf Hzami, Nabil Khelifi, **Béchir Béjaoui**, Alberto Sanchez, **2022**. Impacts of water stress on lagoonal ecosystem degradation in semi-arid coastal areas. Marine Pollution Bulletin, 179, 113445
33. Sabrine Sahbani, Rachid Toujani, Nabiha Ben M'Barek, Ennio Ottaviani, Eva Riccomagno, Enrico Prampolini, Hechmi Missaoui, **Béchir Béjaoui**, **2022**. Effect of Climate Change and anthropogenic pressures on the European eel Anguilla anguilla from RAMSAR Wetland Ichkeul Lake: prediction from the Random Forest model. Book chapter. https://doi.org/10.36253/979-12-215-0030-1.72
34. Bochra Brik, Moez Shaiek, Lamia Trabelsi, Kamel Regaya, Nabiha Ben Mbarek, **Béchir Béjaoui**, Maria Virgínia Alves Martins, Noureddine Zaaboub. **2022**. Quality Status of Surface Sediments of Lake Ichkeul (NE Tunisia): an Environmental Protected Area and World Heritage Site. Water Air and Soil Pollution, 233 (7). https://doi.10.1007/s11270-022-05648-z
35. Mosbahi M., Kassouk, Z., Benabdallah, S., Aouissi, J., Arbi, R., Mrad, M., Blake, R., Norouzi, H., & **Béjaoui B.**, **2023**. Modeling Hydrological Responses to Land Use Change in Sejnane Watershed, Northern Tunisia. Water (Switzerland), 15(9). https://doi.org/10.3390/w15091737

II.2 Submitted manuscripts to Impact Factor Journals

1. Baba-Ahmed K., **Béjaoui B.**, Feki W., Mechouk N., Abdelmlak H., Zihad Bousslema,. Earth Magnetic Field variability impacts on Climate Change and CO_2 solubility, submitted to INSTM Journal **2021**.

II.3 Manuscrits in preparation

1. Sahbeni S., **Béjaoui B.** et al. RF model INSTM Journal. Machine learning techniques for forecasting the effect of Climate Change and Anthropogenic pressures on Coastal wetlands: Case of Ichkeul Lake.

III. Communications at Scientific Events

III.1. Oral communications

1. **Béjaoui B**., Othmani A., Zaaboub N., Harzallah A., Chevalier C., El Hmaidi D., Towards a coupled physical-biogeochemical model for the Gulf of Gabes (Tunisia, Eastern Mediterranean Sea), International Conference on Mediterranean Sea Marine Research: Scientific Priorities and Societal Challenges, Hammamet, 18-20 Novembre **2014**, Tunisie.
2. **Béjaoui B.**, Harzallah A., Moussa M., Un modèle hydroécologique pour la lagune de Bizerte. Atelier de Modélisation des Écosystèmes Marins, organisé par l'INSTM, Tunis, 27-28 Septembre **2005**, Tunisie.
3. **Béjaoui B.**, Harzallah A., Moussa M., Mastouri A., Akrout. F., Caractérisation hydrobiologique de la lagune de Bizerte (Tunisie). Sixième Congrès Maghrébin des Sciences de la Mer, Monastir, 17-21 Décembre **2005**, Tunisie.

4. **Béjaoui B.**, Harzallah A., Moussa M., Un modèle tridimensionnel hydro-écologique couplé pour la lagune de Bizerte. Huitième Conférence Internationale des Limnologues d'Expression Française (CILEF **2006**), Hammamet, 17-21 Mars **2006**, Tunisie.
5. Boukef I., Elbour M., Mraouna R., Elmejri S., Chahad O., **Béjaoui B.**, Sammari C., Ben Aissa R., Boudabous A., Etude de la distribution des Escherichia Coli entéropathogènes dans la lagune de Bizerte (Nord Tunisie).
6. **Béjaoui B.**, Le modèle numérique Ecologie de la lagune de Bizerte - Application au diagnostic de l'état de la lagune. The scientific research in the service of a long-lasting exploitation of the Bizerte Lagoon. Journée Scientifique organisée à l'Institut National des Sciences et Technologies de la Mer (INSTM), Salammbo, Tunis, 24 Octobre **2007,** Tunisie.
7. **Béjaoui B.**, Harzallah A., Moussa. M., Modeling of the primary production in the Bizerte Lagoon – Effects of the climatic changes by a hydro-ecological three dimensional model. VII^{ème} Congrès Magrébin des Sciences de la Mer, El Jadida, 4-7 Novembre**2007**, Maroc.
8. **Béjaoui B.**, Harzallah A., Moussa M., Modeling of the primary production in the Bizerte Lagoon – effects of the climatic changes by a hydro-ecological three dimensional model. The 6th European Conference on Ecological Modeling, Trieste, 27-30 November **2007**, Italy.
9. Grami E., **Béjaoui B.**, Massoudi S., Brahim M., Contribution des nutriments atmosphériques à l'eutrophisation de la lagune de Bizerte. Neuvième Journées Tunisiennes des Sciences de la Mer, Tabarka, 15-18 Décembre **2007**, Tunisie.
10. **Béjaoui B.**, Harzallah A., Moussa. M., Development of a Three-Dimensional Coupled Dynamic-Ecological Model: Application to the Bizerte Lagoon. Colloque International Sur Les Méthodes Mathématiques et Numériques En Mécanique des Fluides, Errachidia, 28-29 Avril **2009**, Maroc.
11. **Béjaoui B.**, Harzallah A., Moussa M., Coupled Dynamic-Ecological model for Bizerte Lagoon. Journées Tunisiennes des Sciences de la Mer, Tunis, **2009,** Tunisie.
12. **Bejaoui B.**, Lavoie D., Chassé J., PlourdeJ., Starr. M., Development of 3D Ocean acidity model to predict ecosystem changes in the St Lawrence Estuary in response to Climate Change. **2010,** Canada.
13. **Béjaoui B.**, Othmani A., Zaaboub N., Harzallah A., Chevalier C., El Hmaidi D., Towards a coupled physical-biogeochemical model for the Gulf of Gabes (Tunisia, Eastern Mediterranean Sea), Hammamet, 18-20 Novembre **2014**, Tunisie.
14. **Béjaoui B.**, Presentation of Case Study of Modelling in Some Tunisian Coasts: Bizerte Lagoon & Gabès Gulf. Summer school on "Ostreopsis bloom modelling", Tunis, 26-28 Mai **2015**, Tunisie.
15. Abdallah T., **Béjaoui B.**, Ben M'Barik N., Alouani B., Arif A., Harzallah A., Modeling of mass and heat exchanges between Ichkeul Lake and Bizerte Lagoon: Hydrodynamical interaction between two coastal water bodies. 1st Atlas Georesources International Congress AGIC 2017, Hammamet, 20-22 Mars **2017**, Tunisie.
16. Harzallah A., **Béjaoui B.**, A hierachy of models for the numerical modelling of the Tunisia marine waters. Euro-Mediterranean Conference for Environmental Integration (EMCEI-2017), Sousse, 22–25 Novembre**2017**, Tunisie.

17. **Béjaoui B.**, Ben Haj M., Rjichi H.,Rôle de la Gestion intégrée des zones Coôtière dans l'Economie Bleue: Cas Pratique du Littoral Tunisien. Blue economy Naples Brokerage Event 2017. Bilateral Meetings on Blue Economy, Naples, 29 Novembre**2017**,Italie.
18. Lavoie M., Duval J., Raven J.A., Maps F., **Béjaoui B.**, Kieber D.J., Vincent W.F., Déséquilibre du système des carbonates dans la couche limite des chrysophytes : implications pour la prise en charge de contaminants. 22^{éme} colloque du Chapitre St-Laurent, Hôtel Pur, Québec, 14-15 Juin **2018**, Canada.
19. Harzallah A., **Béjaoui B**., Modèle à haute résolution de la circulation de l'eau le long des côtes Tunisiennes: Application à la production d'énergie marine. 1^{ére}Rencontre Magrébine Changement Climatique et Sources Alternatives en Eau et en Energie, Tunis, 28-29 Septembre **2018**, Tunisie.
20. **Béjaoui B.**, Bouzaiene M., Athimen K., DilmahmodF., Co-evolution of coastal human activities & Med natural systems for sustainable tourism & Blue Growth in the Mediterranean: Co-Evolve4BG. Sénimaire organize en ligne par l'Université de Malta dans la cadre du projet SHAREMED: Designing the future system of observing systems to assess and address threats to the Mediterranean marine ecosystem -State-of-the-art, needs and future direction, 14-15 December **2020**.
21. Salem H., **Bejaoui B.**, Feki-sahnoun W., Canu D., Benabdallah S., Blake R., Norouzi H., Solidoro C., Box model for Water, Salt and Nutriments Budgets of Mediterranean Coastal Ecosystem: Case of Ichkeul Lake, Northern Tunisia. 3rd Euro-Mediterranean Conference for Environmental Integration (EMCEI 2021),Sousse, 10-13 Juin**2021**, Tunisie.
22. Pellegrini M., Saccani C., **Béjaoui B.**, Zaaboub N., Soussi F., Hammami J.,Replication of an ecosystem-oriented ejectors plant for sediments management in Tunisian ports and harbors. 3rd Euro-Mediterranean Conference for Environmental Integration (EMCEI 2021), Sousse, 10-13 Juin **2021**, Tunisia.
23. Sahbani S., **Béjaoui B.**, Ottaviani E., Riccomagno E., Prampolini E.M, Missaoui, H., 2022. Prediction of Climate Change effects and anthropogenic pressures on Coastal ecosystems : case of Lake Ichkeul. IMAS-Ichkeul. Kick-off meeting of IMAS-Ichkeul Project. 21 October **2021**. INSTM-Salambo, Tunisia.
24. **Béchir Béjaoui**, Khouloud Athimen. *Contribution de la géomatique à la gestion des écosystèmes marins.* GEOEDUCATION 2022 – Apport du géospatial pour la gestion durable du littoral et des zones humides dans un contexte de Changement Climatique. 04 Juin **2022**, Cité des Sciences, Tunis, Tunisia.
25. Sabrine Sahbani, Rachid Toujani, Nabiha Ben M'Barek, Ennio Ottaviani, Eva Riccomagno, Enrico Prampolini, Hechmi Missaoui, Bechir Bejaoui. Effect of Climate Change and anthropogenic pressures on the European eel Anguilla anguilla from RAMSAR Wetland Ichkeul Lake: prediction from the Random Forest model, pp. 756-765 © **2022** Author(s), CC BY-NC-SA 4.0, 10.36253/979-12-215-0030-1.72.
26. Sahbani S., **Bejaoui B.**, Toujani R., Ottaviani E., H. Missaoui. *Effect of Climate Change and anthropogenic pressures on the European eel Anguilla anguilla from Ramsar Wetland*

Ichkeul Lake: Prediction from the Random Forest Model. Ninth International Symposium, Monotoring of Mediteranenan Coastal areas : problems and measurement techniques. June 14-15-16, **2022** - Natural History Museum of the Mediteranena, Livorno – Italy.

27. Sahbani S., **Béjaoui B.**, Ottaviani E., Riccomagno E., Prampolini E.M, Missaoui, H., 2022. Random Forest to forecast the effect of Climate Change and Anthropogenic Pressures on the European eel Anguilla anguilla from Lake Ichkeul. IMAS-Ichkeul Workshop (An Integrated Modeling Approach of the Ichkeul Lake for Sustainable Development (EcoTourism & Aquaculture)). 29 June **2022**. INSTM- Salambo, Tunisia.
28. **Béchir Béjaoui**. Co-Evolve for Blue Growth – Un projet de transférabilité de bonnes pratiques dans le cadre de l'Economie Bleue en Méditerrannée. International Workshop on sustainable blue economies, TICAD8, August 24-25 2022, Salammbô, Tunis, Tunisia.
29. **Béjaoui B**. Coastal human activities and natural systems for sustainable tourism and blue growth in the Mediterranean (Tunisian case study). 5th Edition of the international symposium on tourism in the Arab world. Sousse, October 31 to November 02, **2022**.
30. Sahbani S., **Béjaoui B.**, Ottaviani E., Riccomagno E., Prampolini E.M, Missaoui, H., **2022**. Effect of Climate Change and Anthropogenic Pressures on the European eel Anguilla anguilla from Lake Ichkeul: Predictions from the Random Forest model. Doctoriales INAT **2022**. 16 November 2022. National Institute of Agronomy of Tunisia INAT, Tunisia.
31. **Béchir Béjaoui**. Co-Evolve4BG : Coastal human activities and natural systems for sustainable tourism and blue growth in the Mediterranean. Info-Day Organized by the ANPE. Sousse, Mouradi Palace, August 24-25, **2022**,.
32. **Béchir Béjaoui**. Modelling Oil Spill on the Tunisian Coastal Areas - Configuration and Results. Croco User's Meeting. 13-15 Sep **2023**, Marseille, France.
33. **Béchir Béjaoui**, Khouloud Athimen, Oula Amrouni, Hechmi Missaoui, Giuliano Tallone, Erica Peroni, Paraskevi Chouridou, Kokkinos Dimitris, Eirini Argyropoulou, Arnaldo Marín Atucha, Nuria Garcia Bueno, Carolina Navarro. *Co-evolution of Coastal Tourism and Coastal Ecosystems in the Mediterranean: Challenges and Opportunities.* 5th EURO-MEDITERRANEAN CONFERENCE FOR ENVIRONMENTAL INTEGRATION. 2-5 October **2023**, Rence (Cosenza), Italy.
34. Khouloud Athimen, Martina Bocci, Harry Coccossis, Olfa Helal, Nahed Msayleb, **Béchir Béjaoui**. Co-Evolve4BG Toolkit: Sustainability Assessment of the Coastal/Maritime Tourism Development at the Mediterranean Scale. 5th EURO-MEDITERRANEAN CONFERENCE FOR ENVIRONMENTAL INTEGRATION. 2-5 October **2023**, Rence (Cosenza), Italy.
35. Martina Bocci, Harry Kokossis, Thameur Chaabouni, Ghada Neji, Khouloud Athimen, Ezzedine Kacem, Giuliano Tallone, Erica Peroni, Spyridon Arseniou, Paraskevi Chouridou, Arnaldo Marin, Nuria García-Bueno, Pedro Martinez-Baños, Talal Darwish, Amin Shaban, Nahed Msayleb, **Béchir Béjaoui**. *Coastal and Maritime Tourism Development in the Context of Sustainable Blue Economy in the Mediterranean.* 2eme

edition de la Conférence scientifique internationale sur l'Intélligence économique et le développement insulaire (IEDI2). Djerba, le 21-09-**2023**.

36. Nahed Msayleb, **Bechir Bejaoui**, Khouloud Athiman, Christina Paraskevopoulou, Harry Coccossis. *Stakeholder participation in coastal tourism/ecosystem management at coastal tourist areas in the Mediterranean – Case study from the Co-Evolve4BG project.* 2eme edition de la Conférence scientifique internationale sur l'Intélligence économique et le développement insulaire (IEDI2). Djerba, le 21-09-**2023**.
37. Nedra Asses, Ines Chniti, Ali Selmi, Affef Lamine, Adel Ouerghemmi, Kholoud Athimen, **Béchir Béjaoui**. *Threats and Enabling Factors Analysis for Sustainable Tourism at Sousse Scale, Tunisia.* 2eme edition de la Conférence scientifique internationale sur l'Intélligence économique et le développement insulaire (IEDI2). Djerba, le 21-09-**2023**.
38. Sahbani S., **Béjaoui B.**, Ottaviani E., Riccomagno E., Prampolini E., Canu D.M, Missaoui, H., Cosimo Solidoro, C., **2023**. Machine Learning to predict the Effect of Global Change on Coastal Wetlands. Program of the 3rd symposium of young researchers, Institut Pasteur of Tunis. October 25, 26 and 27, **2023**.
39. Sahbani S., **Béjaoui B.**, Ottaviani E., Riccomagno E., Prampolini E., Canu D.M, Missaoui, H., Cosimo Solidoro, C., 2023. Machine Learning predictive to predict the Effect of Climate Change and Anthropogenic Pressures on Coastal Wetlands (Ichkeul Lake, Ramsar Site). Symposium Trends, Reflections, Evolution, and Visions in Ocean Research_ A celebration of the scientific life of Trevor Platt: 9-11 August **2023**, Plymouth Marine Laboratory, UK
40. Sahbani S., **Béjaoui B.**, Ottaviani E., Riccomagno E., Prampolini E. and Missaoui H., 2023. Cubist and TRIX models used in combination for assessing the effect of Climate Change and Anthropogenic Pressures on Coastal Wetlands (Ichkeul Lake, RAMSAR site). Multidisciplinary Doctoral Days (Imdd23). University of Ibn Tofail, Kénitra, Morocco. 24-26th Of February **2023**
41. Sahbani S., **Béjaoui B.**, Benabdallah S.,Ottaviani E., Riccomagno E., Prampolini E. and Missaoui H., 2023. Machine Learning Techniques for Forecasting the Effect of Climate Change and Anthropogenic Pressures on Coastal Wetlands (Ichkeul Lake, Ramsar Site). International Conference on Innovation and Technological Advances for Sustainability IEEE. University of Doha, Qatar, 1-3 March **2023**

III.2. Posters

1. **Béjaoui B**., Raf-Raf Côte Menacée par une Erosion Intense. Seminar organized by the Coastal Protection and Planning Agency (APAL) in collaboration with the French cooperation on Coastal protection, Tunis, 21 April **1998**, Tunisia.
2. **Béjaoui B.**, Harzallah A., *Modèle hydrodynamique de la lagune de Bizerte avec forçage saisonnier*. Marine Ecosystems Modeling Workshop, organized by the National Institute of Marine Sciences and Technologies (INSTM), Tunis, 27-28 September **2005**, Tunisia.

3. **Béjaoui B.**, Harzallah A., Moussa M., *Contribution à l'élaboration d'un modèle écologique de la lagune de Bizerte : Résultats préliminaires*. Sixième Congrès Maghrébin des Sciences de la Mer, Monastir, 17-21 December **2005**, Tunisia.
4. Béjaoui A., **Béjaoui B.**, Harzallah A., Aloui-Béjaoui N., Application d'un modèle bio-énergétique de la croissance de la moule Mytilus galloprovincialis dans la lagune de Bizerte. 2nd Franco-Maghreb Congress of Zoology & 4th Franco-Tunisian Days of Zoology, Zarzis, 4-9 November **2010**, Tunisia.
5. Chaabane N., **Béjaoui B.**, Harzallah A., *Estimation des apports des rivières en nutriments (Azote & Phosphore) dans la lagune de Bizerte*. International workshop organised by the l'Institut National des Sciences et Technologies de la Mer & l'Institut de Recherche pour le Développement sur « Les Lagunes de Thau et Bizerte, entre Pressions Environnementales et Gestion Durable », Bizerte, 3-4 May **2012**, Tunisia.
6. Alimi D., **Béjaoui B.**, Trigui El Menif N., Estimation des budgets bio-géo-chimiques des lagunes de Bizerte et de Ghar El Melh (Nord de la Tunisie). Final workshop of Start/MaghLag projet : « *Les Lagunes Maghrébines : Statut trophique, vulnérabilité et futurs possibles dans le contexte des changements globaux* », Bizerte, 25-27 June **2012**, Tunisia.
7. Alimi D., **Béjaoui B.**, Trigui El Menif N., Estimation des budgets bio-géo-chimiques des lagunes de Bizerte et de Ghar El Melh. 14ème Journées Tunisiennes des Sciences de la Mer (ATSMER), Sousse, 15-18 December **2012**, Tunisia.
8. Othmani A., **BéjaouiB.**, Zaaboub N., Chevalier C., El Hmaidi D., Precipitation impacts on the eastern Mediterranean Sea shallow area of the Gulf of Gabes from a coupled physical-biogeochemical model. 8th HyMex Workshop, Valetta, 15-18 Septembere**2014**, Malta.
9. Abdallah T., **Béjaoui B.**, Ben Mbarik N., Moussa M., Caractérisation Hivernale du Lac Ichkeul. 2ème Ed. de la journée des doctorants: Recherche et développement, contribution du chercheur en sciences de l'ingénieur, Tunis, 07 March **2018**, Tunisia.
10. Douss N., Amrouni O., Gaaloul N., Sanchez A., **Bejaoui B.**, Serbaji M., Sedimentological Study for the Monitoring of the Sediment Transport Pattern in the Lagoon of Bizerte (Northern Tunisia). Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions, Sousse, 10-13 Octobre **2019**, Tunisie.
11. Béjaoui. Climate Change and Anthropogenic Pressures Drive Hypertrophication and Loss of N2/N2O in a coastal Wetland Ecosystem, North Africa. AGU Fall Meeting **2021**. New Orland, LA USA.
12. Béchir Béjaoui, Leila Basti, Sihem Benabdallah, Jalel Aouissi, Zaineb Kassouk. *Changement Climatique et Pressions anthropiques sur les zones humides : Hydrobiogeochimie du Lac Ichkeul.* Seminaire organisé par FNAACC (Forum National des Acteurs de l'Adaptation au Changement Climatique en Tunisie). Le FNAACC est une initiative du projet « Renforcement de capacités et appui à l'exécution de la politique nationale d'adaptation au changement climatique en Tunisie » (Adapt-CC), financé par le Ministère fédéral allemand de la coopération économique et du développement (BMZ) et

mis en œuvre en son nom par la Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), en partenariat avec le Ministère des Affaires Locales et de l'Environnement (MALEn).

42. Sahbani S., Béjaoui B., Ottaviani E., Riccomagno E., Prampolini E., Canu D.M, Missaoui, H., Cosimo Solidoro, C., **2023**. XGBoost and TRIX models used in combination to assess and diagnose the trophic state of Coastal Wetlands (Ichkeul Lake, RAMSAR site): Poster. Symposium Trends, Reflections, Evolution, and Visions in Ocean Research_ A celebration of the scientific life of Trevor Platt: 9-11 August 2023, Plymouth Marine Laboratory, UK

IV. Supervision of student thesis

IV.1. Supervisor of Masters (*Master of Research*)

1. Co-Supervison with Mouldi Brahim (Prof. INSTM) the master of **Jemila Hammami** (Master in Geology Applied on Environment, FST). The subject of the master's thesis is entitled: *Géochimie des éléments nutritifs dans les eaux de la lagune de Bizerte (Defended, March 2004).*
2. Co-supervision with Messoudi Sabri, (Prof. INSTM) the master of **Emna Grami** (Environment Sciences Master, FSB). The Master's thesis subject is: *Variation saisonnière des nutriments dans la lagune de Bizerte – Effet de l'apport atmosphérique en nutriments.(Defended* on October 2008).
3. Co-supervision with Noureddine Zaaboub (Maître Assistant à l'INSTM) of the master of **Mohamed Zayani** (Environment Sciences Master, FSB). The Master's thesis subject is: Etude Biogéochimique d'une Lagune Méditerranéenne : La Lagune de Bizerte (*Defended* on April 2011).
4. Co-Supervision with Ali Harzallah, Professor at INSTM, of the master of M. **Fakhreddine Nouri** (Master: Hydrodynamic and Modeling of Coastal Environment H.M.H.E.C/ENIT). The subject is entitled: Vers la mise en place d'un modèle écologique pour le milieu marin tunisien avec site d'étude le golfe de Gabès (*Defended*, April 2010).
5. Supervision of the master of **Amel Béjaoui** (INAT: National Institute of Agriculture of Tunis). The Master's thesis subject is: Contribution à la Modélisation de la Croissance de la Moule dans la Lagune de Bizerte (*Defended* on July 2011).
6. Co-supervision with M. Mahmoud Moussa, Professor at ENIT (National Engineers school of Tunis) of the master of **Inès Mrabet** (M.H.E Master, ENIT). The Master's thesis subject is: Modélisation des flux de chaleur à l'interface Atmosphère-Mer- Application à la lagune de Bizerte (2009/2010).
7. Co-Supervision with M. Mahmoud Moussa, Professor at ENIT (National Engineering School of Tunis) of the master of **Saoussen Cheriaa** (M.H.E Master, ENIT). The subject of this Master's thesis is: Effet du vent sur la dynamique des eaux de surface –Application à la lagune de Bizerte (2009/2010).
8. Supervisionof the master of **Sayda Rahma Jaziri** (Mastère Fonctionnement et Gestion des Ecosystèmes Aquatiques, INAT). The subject of Master's thesisis: *Modélisation numérique*

de la distribution de l'Ichtyoplankton dans le Golfe de Gabès: Exemple de Sardina pilchardus& Engraulis encrasicolus (*Defended*, Décembre **2014**).

9. Supervision of the master of **Essia Hamdi** (Mastère Sciences de l'Environnement, FSB). The subject of thisMaster'sthesisis: *Modélisation de la pollution atmosphérique particulaire et son impact sur la production primaire dans la lagune de Bizerte* (*Defended*, Décembre **2015**).
10. Co-Supervision of the master of **Yosr Jazzar** (*Mastère Modélisation Hydraulique et Environnement*, ENIT) with Mr. Ali Harzallah (Professor at INSTM). The subject of the Master's thesis is: *Modélisation numérique de la circulation de l'eau le long des côtes Centre-Est de la Tunisie-Baie de Monastir* (*Defended*, December, **2016**).
11. Co-Supervision of the master thesis of **Bilel Alouani** (Research master degree, Mastère Modélisation Hydraulique et Environnement, MHE, ENIT). The subject of the Master's thesis is: Estimation des apports fluviaux en nutriment dans le lac Ichkeul (*Defended*, January 2017).
12. Supervision of the master thesis of **Tarek Abdallah** (Research master degree, Mastère Modélisation Hydraulique et Environnement, MHE, ENIT). The subject of the Master's thesis is: Caractérisation hydrobiologique du Lac Ichkeul et modélisation des échanges Lac Ichkeul-Lagune de Bizerte (*Defended*, January 2017).
13. Co-Supervision of the master thesis of **Hatem Salem** (Mastère Modélisation Hydraulique et Environnement, MHE, ENIT). The subject of the Master's thesis is: *Impact des rejets de polluants hydrique dans la zone côtière de Djerba* (*Defended*, December, **2019**).

IV.2. Supervisor of Masters (*Professional Masters*)

1. Supervision of the master of **Nour El Houda Chaabane** (Professional Master in Environment Bioserveillance, FSB). The subject of the Master's thesis is: Etude de la variation saisonnière des paramètres physico-chimiques et biologiques en vue de la calibration du modèle biogeochimique de la lagune de Bizerte (*Defended*, December 2012).
2. Supervision of the master of **Sidi Bouna Sidi** (Mastère Biosurveillance de l'Environnement, FSB). The subject of the Master's thesisis: *Contribution à la caractérisation de la frange côtière de la lagune de Bizerte: Approche Ecobiologique et cartographique* (*Defended*, March **2018**).
3. Supervision of the master of **Khouloud Athimen** (Mastère Géomatique Appliqué à l'Environnement, INAT). The subject of the Master's thesis is: *Évaluation des indicateurs dans la zone côtière tunisienne - Cas d'activité anthropique* (*Defended*, January **2020**).
4. Supervision of the master of **Jasser Fetoui** (Mastère Co-construitInfotronique, ISTIC BorjCedria). The subject of the Master's thesis is : *Mise en place d'un Système d'Aide à la Décision pour un développement durable des activités touristiques* (*Defended*, Octobre**2020**).
5. Supervision of the master of **Ikram BenYezza** (Mastère Géomatique Appliqué à l'Environnement, INAT). The subject of the Master's thesis is : *Estimation des changements phytoplanctoniques et de la variation saisonnière des composants optiques*

actifs, dans le lac Ichkeul, au nord de la Tunisie, à l'aide de techniques de télédétection (*Defended*, Janvier **2021**).

6. Co-Supervision of the master of **Chourouk Chtir** (Géomatique Appliqué à l'Environnement, INAT). The subject of the Master's thesis is : *Réponses de l'avifaune au changement climatique : cas du lac Ichkeul (Defended*, Janvier **2023**).

IV.3. Ongoing Professional Masters

NA

IV.4. Co-Supervision of Thesis (Presented)

Co-supervision of the thesis of **Achref Othmani** (Thesis in Physics, FST). The subject is entitled: Mise en place d'un modèle numérique de propagation de la marée pour les systèmes côtiers semi-fermés : Application à l'étude de la distribution du plancton dans le golfe de Gabès (Defended, October **2017**).

IV.5. Co-Supervision of ongoing Thesis

1. Co-Supervision of the thesis of **Sabrine Sahbani** (Thesis in Fisheries, INAT). The subject is entitled: Diversité et variation ichtyologique des systèmes lacustres sous l'effet des Changements Climatiques : Cas du Lac Ichkeul (1st Registration, **September 2019**).
2. Co-supervision of the thesis of **Hatem Salem** (Thesis in Hydraulics, ENIT). The subject is entitled: Modélisation numérique des échanges massiques et thermiques entre le Lac Ichkeul et la lagune de Bizerte (1st Registration, **October 2020**).

Responsibilities & Outreach

I. Responsibilities within the Establishment

I.1. Participation in the Scientific Council

1. Member of the Scientific Council of the Marine Environment Laboratory/The National Institute of Marine Sciences and Technologies.
2. Member of the Scientific Council of the National Institute of Meteorology (INM)

I.2. Participation in National Commissions

1. Member of the Steering Committee (COPIL) of the "Depollution of Lake Bizerte" project as part of the Horizon 2020/MeHSIP-PPIF program (Mediterranean Hot Spot Investment Program)
2. Member of the "NATIONAL COMMISSION FOR THE BLUE ECONOMY".

I.3. Thesis advisory

1. **Rihab SAIDI**, La Mise au point d'un modèle de dispersion des méduses dans le Complexe Baie-Canal-Lagune de Bizerte (Mastère Professionnel Biosurveillance de l'Environnement, FSB), **2012**.
2. **Henda SAOUDI**, Transformation des vagues près des plages, Modélisation en Hydraulique et Environnement (Mastère de Recherche Modélisation Hydraulique et Environnement, ENIT), **2012**.
3. **Kaouther Ishak**, Modélisation numérique de l'hydrodynamique et de la dispersion de la pollution dans le Golfe de Tunis (Mastère Professionnel Biosurveillance de l'Environnement, FSB), **2012**.
4. **Dhouha Alimi**, Estimation des bilans biogeochimiques dans les lagunes de bizerte, de gharelmelh et d'El Bibane: application du modèle LOICZ, Mastère de recherche Hydrobiologie, FSB), **2013**.
5. **Marwa Ennouri**, Modélisation de la dispersion de la tache thermique et des matières radioactives dans la zone de Marsa-Douiba (Mastère de Recherche Modélisation en Hydraulique et Environnement, ENIT), **2013**.
6. **Hajer Chakroun**, Modélisation de la dispersion de la tache thermique et des matières radioactives dans le Golfe de Gabès (Mastère de Recherche Modélisation en Hydraulique et Environnement, ENIT), **2013**.
7. **Maher Bouzaiene** : Etude de la fiabilité des sorties lagrangiennes du modèle «ICHTHYOP» (Mastère Physique des Fluides et des transferts, FST), **2014**.
8. **Dhouha Chaibi** : Transport de sable sous les vagues déferlantes (Mastère de Recherche Modélisation en Hydraulique et Environnement, ENIT), **2015**.
9. **Emina Bousslema**, Modélisation mathématique du comportement de la moule MytilusGalloprovincialis en fonction des variations spatio-temporelles des paramètres du

milieu : Application de la théorie DEB (Mastère Bio-Informatique, Mathématique, Statistique, ENIT), **2015**.

10. **Taysir Attiya**, Evolution de la biodisponibilité des métaux dans la lagune d'Ichkeul et les cours d'eaux qui s'y déversent (Mastère Professionnel Biosurveillance de l'Environnement, FSB), **2017**.
11. **Raja Bouaziz**, Caractérisation hydrobiologique du lac Ichkeul : analyse et suivi de la qualité des eaux et du plancton (Mastère Professionnel Biosurveillance de l'Environnement, FSB), **2017**.
12. **Faten Fayala**. Modélisation de la marée le long des côtes tunisiennes (Mastère de Recherche Modélisation en Hydraulique et Environnement, ENIT), **2017**.
13. **Aymen Dabboussi**. Analyse géospatiale des facteurs liés aux flux touristiques en relation avec le tourisme en méditerranée, **2022**

II. National and International influence

II.1. Research Projects

II.1.1 National Research Project: NRP

14. **MOGDEM:** Modélisation Opérationnelle pour une gestion Durable des Ecosystèmes Marins.
    Role in the project: Member
    Funding: Ministry of Higher Education and Scientific Research
    Duration: 4 years/2006-2009

15. **IMNTox** : Des Microalgues Nuisibles et Potentiellement Toxiques sur le Réseau Trophique des Ecosystèmes Pélagiques dans les Eaux Tunisiennes
    Role in the project: Member
    Funding: Ministry of Higher Education and Scientific Research
    Duration: 4 years/2006-2009

16. **MDSEDTun** : Modélisation de la Dynamique Sédimentaire et Evaluation de la Dispersion des Polluants dans le Golfe de Tunis.
    Role in the project: Member
    Funding: Ministry of Higher Education and Scientific Research
    Duration: 4 years/2006-2009

17. **GEGT**: Qualité des eaux du golfe de Tunis
    Role in the project: Member
    Funding: Ministry of Higher Education and Scientific Research
    Duration: 4 years/2011-2014

18. **MODISS**: Modélisation de la dynamique Sédimentaire et dispersion des polluants chimiques et organiques dans la frange littorale à l'Est de Djerba entre Houmet Essouk et Zarzis dans le Golfe de Gabès
    Role in the project: Member

Funding: Ministry of Higher Education and Scientific Research
Duration: 4 years/2012-2014

19. **ICCEMT**: Impact des Changements Climatiques sur l'Environnement Marin en Tunisie.
    Role in the project: Member
    Funding: Ministry of Higher Education and Scientific Research
    Duration: 4 years/2012-2014
20. **DevEcoCE** : Ecosystèmes Marins Centre-East : Comprendre pour développer
    Role in the project: Member
    Funding: Ministry of Higher Education and Scientific Research
    Duration: 4 years/2016-2015
21. **GAMA** : Gabes Assessment Modeling & Adaptation
    Funding: Ministry of Higher Education and Scientific Research
    Duration: 4 years/2016-2015
22. **DYMEDtun** : Dynamique de la Méditerranée Centrale et Circulation le long des côtes tunisiennes.
    Role in the project: Member
    Funding: Ministry of Higher Education and Scientific Research
    Duration : 4 years/2016-2015
23. **MODAPEX** : Modélisation des effets des apports externes sur lagune de Bizerte.
    Role in the project: Coordinator
    Funding: Ministry of Higher Education and Scientific Research
    Duration: 4 years/2016-2019
    The Purpose of the MODAPEX project, which I coordinated, is to study the effect of external inputs (anthropogenic and climatic) on the functioning of the lagoon ecosystem of Bizerte-Lake Ichkeul located in northern Tunisia. The execution of the project was subdivided into three parts: The first part relates to field campaigns. The second part was programmed for the analysis of collected data while the third part concerns numerical modelling. Being the impact of water exchanges between the Bizerte lagoon and Lake Ichkeul on the two ecosystems, it is planned, within this project, to set up a numerical model for the estimation of water exchanges. between the two systems.
24. **ECOCLIM** : Etude écosystèmique des zones humides, impact des ouvrages anthropiques et du Changement climatique.
    Role in the project: Member
    Funding: Ministry of Higher Education and Scientific Research
    Duration: 4 years/2019-2022
25. **PrevCOTES** : Système de Prévision pour les Ecosystèmes Marins en Tunisie..
    Role in the project: Member
    Funding: Ministry of Higher Education and Scientific Research
    Duration: 4 years/2019-2022
26. **ER-2-PG** :Effet du relargage potentiel des polluants dans le Golfe de Gabès

Role in the project: Member
Funding: Ministry of Higher Education and Scientific Research
Duration: 4 years/2019-2022

II.1.2. International Research Projects :IRP

1. **ECOMEDPORT**: "Feasibility study of an ecosystem-oriented plant for sediments management in Mediterranean ports and marinas – ECOMEDPORT".
   Role in the project: **Coordinator**
   Budget: €30,000
   Funding: European Union
   Project website/University of Bologna:
   https://site.unibo.it/ecomedport/en/agenda/webinar-ecomedport-start-up-action-3rd-project-conference
   Project website/Bluemed: http://www.bluemed-initiative.eu/tag/ecomedport/
   Duration: 1 year/2018-2019

2. **SEALINES** : "Sealines International Safety Network – SEALINES
   Role in the project: **Coordinator**
   Budget: €30,000
   Funding: European Union
   Website: http://www.bluemed-initiative.eu/tag/sealines/
   Duration: 1 year/2018-2019

   ECOMEDPORT & SEALINES are two Start-ups within the BLUEMED CSA project to support the BLUEMED initiative in order to explore Blue Growth topics. The BLUEMED project is a Coordination and Support Action (CSA), funded by the European Commission under the H2020 program with 3 million euros, aimed at supporting the implementation of the initiative BLUEMED as a reference for all Blue Growth actors in the Mediterranean, promoting the update and implementation of BLUEMED SRIA, converting its results into actions.

3. **Co-Evolve4BG** : Co-evolution of coastal human activities & Med natural systems for sustainable tourism & Blue Growth in the Mediterranean/Lead Partner.
   Country: Tunisia, Italy, Greece, Spain, Lebanon
   Role in the project: **General Coordinator**
   Budget: €3 million
   Funding: European Union – ENI CBC MED Program
   Website: http://www.enicbcmed.eu/en/projects/co-evolve4bg
   Duration: 3 years/2019-2021

   The growth of tourism in the Mediterranean, particularly in coastal areas and the effects of climate change, will continue to affect landscapes, soil and coastal stability/erosion, put pressure on species and water resources and increase waste and pollution discharged into the sea. In this context, the Co-Evolve4BG project aims to analyze and promote the co-

evolution of human activities and natural ecosystems in tourist coastal areas, with a view to sustainable development of sustainable tourism activities based on the principles of Integrated Coastal Zone Management (ICZM) and Maritime Spatial Planning (MSP), while promoting blue growth in the Mediterranean. The pilot actions and analyzes foreseen by the project will strengthen the sustainable development of coastal and maritime tourism by fully exploiting the potential of the blue economy, promoting the creation of business opportunities and jobs in the field of ecosystems, coastal and maritime tourism, coastal management and adaptation to climate change. Co-Evolve4BG is part of a larger project, "Med Coast for Blue Growth" labeled by the 43 countries of the Union for the Mediterranean, and of the Co-Evolve project, funded by the Interreg MED program, in line with Bologna Charter Initiative Joint Action Plan.

4. **IMAS-Ichkeul**: "An Integrated Modeling Approach for Sustainable Development of the Ichkeul Lake (Eco-Tourism & Aquaculture): IMAS-Ichkeul".
   Role in the project: **Principal Investigator (PI)**
   Budget: $80k
   Funding: The project is funded by the "United States Agency for International Development, USA" and managed by the "National Academy of Sciences, NAS"
   Website: https://sites.nationalacademies.org/PGA/PEER/PEERscience/PGA_196483
   Duration: 2 years/2020-2021

   The main keys to sustainable development in the Ichkeul region are controlling the water balance of the lake (Hamdi et al., 2008). Controlling the water level in the lake will help safeguard the biodiversity of this well-known ecosystem for its biodiversity and promote sustainable development (aquaculture and tourism). The goal of this project is to manage the water balance of the lake based on a numerical approach through the development of a new toolbox encompassing:

   -A remote sensing and GIS database,
   -The SWAT model to provide the river entries into the lake,
   -A one-dimensional hydrodynamic sub-model to simulate the water exchange between the Lake Ichkeul and the Bizerte lagoon,
   - Land-ocean interactions in the coastal zone (LOICZ).

   This numerical toolbox will be used to predict the water balance and hydrological conditions of the lake under anthropogenic and climate change effects. Additionally, it will be used to demonstrate the impact of many water management scenarios on the ecology of the lake. In this context, the results of the toolbox, such as temperature, water level, salinity and any other key variables, will help to implement a realistic assessment of two main economic activities in the region: aquaculture with emphasis on estimating the change in fish stocks (mainly eel) and ornithological tourism.

II.2. Organization of Seminars/Workshops

1. **Workshop** : Outils de Modélisation Couplé Hydrodynamique-Bio-géo-chimique des Ecosystèmes Marins
   Framework: Workshop organized as part of the INCOMMET project. The objective of the workshop is to address the theoretical and practical aspects of coupled 3-dimensional hydrodynamic-biogeochemistry models – Understanding the functioning of marine ecosystems.
   Date: 08 - 12 December 2014
   Location: National Institute of Science and Technology of the Sea, Tunis.
   Role: Organizer
2. **Workshop :** Étude de faisabilité d'une usine écosystémique pour la gestion des sédiments dans les ports et marinas méditerranéens-ECOMEDPORT
   Scope: Feasibility study of an ecosystem for sediment management in Mediterranean ports and marinas within the ECOMEDPORT project
   Date: 19 - 20 March 2019
   Location: Online workshop
   Role: Organizer
3. **Seminar**: Kickoff of the Co-Evolve4BG project
   Framework: Launch of the Co-Evolve4BG project in Tunis
   Date:September 18, 2019
   Location: National Institute of Marine Sciences and Technologies, Tunis
   Role: Organizer
4. **Workshop:** Pre-Kickoff of the IMAS-Ichkeul project
   Framework: Preparation of IMAS-Ichkeul project activities
   Date: 06 November 2019
   Location: National Institute of Marine Sciences and Technologies, Tunis
   Role: Organizer
5. **Seminar:** Kickoff of the IMAS-Ichkeul project
   Framework: Launch of the IMAS-Ichkeul project & presentation of the objectives
   Date: August 07, 2020
   Location: Errimel, Bizerte, Tunis
   Role: Organizer
6. **Seminar:** Enabling synergies between Med-EcoSuRe and Co-Evolve4BG projects.
   Framework: Establishment of a synergy between the two projects (Lead Applicants) funded by the European Union under the ENI CBC Med program.
   Date: October 27, 2020
   Venue: Ministry of Agriculture and Water Resources and Maritime Fisheries, Tunis
   Role:Organizer
7. **Seminar :** Séminaire Annuel du projet IMAS-Ichkeul
   Framework: Presentation of the progress of the IMAS-Ichkeul project
   Date: December 09, 2020
   Location: Online
   Role: Organizer

8. **Workshop :** Identification des Facteurs Potentiels et Menaces pour le Développement du Tourisme Durable à Djerba.
   Framework: Seminar organized as part of the ENI CBC MED Co-Evolve4BG project
   Date: June 25-26, 2021
   Location: Djerba
   Role: Organizer
9. **Workshop : Vers un Plan d'Action pour un Tourisme Durable à Djerba.**
   Cadre : Séminaire organisé dans la cadre du projet IEV CTF Med/Co-Evolve4BG
   Date : 2-3 Mars 2023
   Location : Tunis, Tunisia
   Role : Organizer
10. **Workshop: Organization of the event "Co-Evolve4BG Results Sharing Workshop"** in the frame of Co-Evolve4BG project.
    Date : 04 July 2023
    Location : Djerba, Tunisia
    Role : Organizer
11. **Workshop: Organization of the Final Event of the Co-Evolve4G**
    Date : 25-26 October 2023
    Location : Tunis, Tunisia
    Role : Organizer

II.3. Participation in Seminars

1. **Seminar**: Assessment of the Lake Bizerte Charter and the relevant projects in view of obtaining a fully Integrated Coastal Zone-Water Resources Management (Advanced guided working National Seminar)", organized by "The National and Kapodistrian University of Athens (UoA), MIO-ECSDE with the support of the Tunisian authorities within the ENPI Horizon 2020 Capacity Building/Mediterranean Environment Program, Bizerte, 23-24 October 2014, Tunisia.
2. **Workshop**: ENI CBC Med "Mediterranean Sea Basin" Program, First Call for Standard Projects, Technical Workshop for Lead Applicants, organized by the ENI CBC MED program, Madrid, 21 November 2017, Spain.
3. **Seminar**: Bizerte vers une croissance bleue, organised by l'Institut Supérieur de Pêche et d'Aquaculture de Bizerte, Bizerte, March 2018, Tunisia.
4. **Forum**: Forum de la Mer (http://forumdelamerbizerte.com/), Bizerte, 20-21 October 2018, Tunisia.
5. **Seminar**: Météorologie, Climat, Océanographie, Hydrologie et Société, organisé par l'Institut National de la Météorologie, Tunis, April 2018, Tunisia.
6. **Seminar**: Kickoff of the ECOMEDPORT project "ECOMEDPORT project meeting", organized by the University of Bologna (UNIBO), Bologna, 26-28 September 2019, Italy.

7. **Workshop**: CO-EVOLVE & MedCoast4BG Joint Meeting, organized by Union for the Mediterranean, Barcelona, 29-31 October 2018, Spain.
8. **Seminar**: The future of the Mediterranean region: integrating strategies for sustainable development and cohesion after 2020, organized by the Government of Catalonia, the Euroregion Pyrénées Méditerranée and the Intermediterranean Commission of the CPMR, Barcelona, 04 February 2019 , Spain.
9. **Workshop**: Final conference of the MITOMED+ project, organized by CPMR, Livorno, November 21, 2019, Italy.
10. **Seminar** : 2nd JOINT EVENT OF: CO-EVOLVE, Promoting the co-evolution of human activities and natural systems for the development of sustainable coastal and maritime tourism and MedCoast4BG - Med Coasts for Blue Growth, organized by the Department of Hérault, Montpellier, 9-10 April 2019, France.
11. **Workshop**: Stackholder Conference on Blue Economy - Towards a Sustainable Blue Economy for the Mediterranean Sea basin, organized by Union pour la Méditerranée, Bercelona, 10–11 March 2020, Spain.
12. **Seminar**: الواقع و الآفاق للمرأة الفلاحة, organized by UTAP, Tunis, August 11, 2020, Tunisia.
13. **Workshop**: Changer le paradigme de la réutilisation des eaux usées, AQUACYCLE, organized by GDA SIDI AMOR, Tunis, September 22, 2020, Tunisia.
14. **Workshop :** « Sensibilisation à l'importance des applications de la géomatique en agriculture et en environnement ». Atelier organisé par le projet GEOMAG avec l'appui du laboratoire LR17AGR01 (GREEN-TEAM) et du projet ERANETMed CHAAMS. Tunis, INAT, 17 – 18 Mai 2022.
15. **Workshop** : « La charte du développement durable de la lagune de Bizerte : responsabilité partagée et engagement continu et partagé ». Bizerte, le 15 juin 2022.

II.4. Vulgarization at Seminars/Workshops

1. **Seminar**: Exemple de réussite tunisienne dans le cadre du premier appel: The Co-Evolve4BG project. Information event on the call for strategic projects, Tunis, May 16, 2019, Tunisia.
2. **Workshop:** Pre-kickoff meeting of Co-Evolve4BG/Med Coasts for Blue Growth, Barcelona, June 3-5, 2019, Spain.
3. **Workshop** : Presentation of the Co-Evolve4BG project at the launch day of the MEDUSA project, Tunis, October 15, 2019, Tunisia.
4. **Workshop** : Ressources en eau, changements climatiques et tourisme durable dans la région de Sousse. Communication day with the socio-economic actors of the action, Sousse, November 30, 2019, Tunisia.
5. **Seminar** : Presentation of the IMAS-Ichkeul project in ISGMLVMB Kickoff project (Amélioration de la gestion durable des eaux souterraines de la Basse Vallée du Bassin de la Medjerda), Tunis, March 11, 2020, Tunisia.

II.5. Participation in Scientific Committees

Participation in the Scientific Committee of the "Euro-Mediterranean Conference for Environmental Integration, EMCEI 06/2021" congress

II.6. Review of Scientific papers

Journal	Paper	Date
Marine Pollution Bulletin	Hydrodynamic properties of San Quintin Bay, Baja California: merging models and observations.	02/2016
ESTUARINE, COASTAL and SHELF SCIENCE	Hydrodynamic properties of San Quintin Bay, Baja California: merging models and observations.	07/2015 11/2015 02/2016
ESTUARINE, COASTAL and SHELF SCIENCE	An analysis of dynamical factors influencing 2013 giant jellyfish bloom near Qinhuangdao in the Bohai Sea, China	07/2016 12/2016
ENVIRONMENTAL SCIENCES	Orographic and Tectonic control on Extreme Events with Special Reference to Uttarakhand Disaster of June 2013 in the Mandakini Valley, India	05/2016
ENVIRONMENTAL SCIENCES	Assessment of the water quality of Bizerte lagoon of Tunisia by use of multivariate statistical analysis	02/2016
ECOLOGICAL INDICATORS	Combining multivariate statistical techniques and random forests model to assess and diagnose the trophic status of Poyang Lake in China	01/2018 06/2017
ECOLOGICAL MODELLING	Linking Obligate Mutualism Models in an Extended Consumer-Resource Framework	01/2018
Progress in Oceanography	Non-Redfieldian dynamics driven by phytoplankton phosphate frugality explain nutrient and chlorophyll patterns in model simulations for the Mediterranean Sea	12/2018
Science of the Total Environnement	Empirical dynamic model deciphers more information on the nutrient (N)-phytoplankton (P)-zooplankton (Z) dynamics of Sundarban mangrove ecosystem, India	10/10/2019
Science of the Total Environnement	Eutrophication assessment of seasonal urban Lakes in China Yangtze River Basin using Landsat 8-derived Forel-Ule index: A six years (2013-2018) observation	30/10/2019 17/08/2019
Marine Pollution Bulletin	Seasonal assessment of the trophic status in the coastal waters adjoining Tuticorin harbor at Gulf of Mannar, India: Linking with water quality and plankton community	05/2021
ECOLOGICAL MODELLING	Uncertainty and sensitivity analysis of input conditions in a large shallow lake based on the Latin hypercube sampling and Morris methods	11/2021
Frontiers	Developing a real-time trophic state index of a seawater lagoon: a case study from Dapeng Bay, Southern Taiwan	05/2021

Marine Pollution Bulletin	Hydrochemical Profile and Trophic State of a Coastal Ramsar Site in South Western Seaboard of India	11/09/2021 25/09/2021
Journal of Soils and Sediments	Techno-economic assessment of the innovative ejectors plant technology	03/12/2021
Marine Pollution Bulletin	First assessment of Polycyclic Aromatic Hydrocarbons contamination and associated human health risk in Mullet (Liza aurata) from Tunisia: case of Bizerte and Ghar El Melh Lagoons	25/05/2022 25/06/2022
Marine Pollution Bulletin	Development and evaluation of a GPU-based coupled three-dimensional hydrodynamic and water quality model	26/08/2022 19/08/2022
Marine Pollution Bulletin	Development and evaluation of a GPU-based coupled three-dimensional hydrodynamic and water quality model	17/10/2022 12/12/2022
Marine Pollution Bulletin	Assessment of ecological status of Uppanar and Vellar estuaries using different trophic indices	12/12/2022 23/12/2022
Journal of Hydrology	Integrated modeling framework to evaluate the impacts of multi-source water replenishment on lacustrine phytoplankton communities.	12/05/2022 17/05/2022
Environmental and Sustainability Indicators	Assessment of wetland ecosystem services and human wellbeing nexus in sub-Saharian Africa: empirical evidence from a socio-ecological landscape of Ghana.	14/04/2022 25/05/2022
Journal of Sea Research	Multiple stressors influencing the general eutrophication status of transitional waters of the Brazilian tropical coast: an approach utilizing the Pressure, State, and Response (PSR) framework	22/07/2022 02/09/2022
water	Hanjiang River runoff change and its attribution analysis inte-grating the inter-basin water transfer	12/07/2023

II.7. Openness to the environment

Participation and/or coordination of studies carried out at the request of national organization such as DGSV (General Directorate for Veterinary Health), STIR, Ministry of the Environment, in relation to the marine domain (physics, environment), Coastal Protection and Planning Agency (APAL) and UNDP (United Nations Development Programme) and drafting of the associated reports.

1. Study of the Complete Depollution of Lake Bizerte, carried out within the Horizon 2020/MeHSIP-PPIF program (Mediterranean Hot Spot Investment Program)

   Participation as an expert on behalf of the company Pescares under a contract between Pescares and INSTM.

   Béjaoui B., Ch. Sammari, **2012**. Circulation and renewal time of water before and after dredging of a coastal strip in the North-East sector of the Bizerte lagoon. Report, Ministry of Environment, p 82.

2. Site study for the implementation of a nuclear power plant on behalf of STEG.

   Development of the first part of the study:

Béjaoui B., 2014. Conditions Climatiques des deux Sites Retenus pour l'implantation de la Centrale Electronucléaire : Les secteurs Nord & Sud-Est. Report, INSTM, p 36.

3. **Béjaoui B.**, Chouba L., Mastouri A., Akrout F., Afli A., Harki M., **2018**. Prospection du déversement accidentel de pétrole au niveau du port d'accostage à Zarzouna/Bizerte. Report, INSTM, p 15.
4. **Béjaoui B.**, Zaaboub N., El Bour M., Amri D., Hili H., Chalghaf M., 2018. Zonage de la lagune de Bizerte. Report, INSTM, p 31.
5. **Béjaoui B.**, Amri D., Bouali H., Salem H., **2021**. Zonage de la Lagune de Bizerte pour la Conchyliculture & Identification des Stations de Prélèvement pour le Contrôle Sanitaire. Study carried out at the request of the Ministry of Agriculture, Hydraulic Resources and Maritime Fisheries. Report, INSTM, p 41
6. Participation as an EXPERT for the development of "Beach Occupancy Plans for three municipalities in Djerba/Plans d'Occupation des Plages pour trois communes à Djerba" as part of the "Résilience Côtière" project funded by the United Nations Development Program (UNDP) for the account of the Coastal Protection and Planning Agency (APAL).
7. Mise en place d'un modèle numérique pour la simulation de la distribution d'une pollution en mer dans le golfe de Gabès. Le modèle a été mis en place dans le cadre de la coopération Tunisie-Italie pour le compte de l'Agence Nationale de la Protection de l'Environnement – ANPE.

   Moussa M, **Béjaoui B.**, **2022**. Dynamic Modeling & Dispersion of Pollutants in the Gulf of Gabes. Report, Observatory de Coastal Protection and Planning Agency (APAL), 40 p.
8. Participation in the workshop organized by the General Directorate for the Quality of Life (DGQV) on the depollution of the Bizerte lagoon. Bizerte on June 15, 2022, Hotel Nour.

Pedagogic Activities

I. Supervision of Student thesis

I.1. Project Graduation (PFE)/Internships (Achieved)

1. Co-supervision with Mohamed Mejdeddine Kraiem, Professor at INSTM, of the training of **Raoudha Drissi** (2005). The training is entitled: Identification des algues dans la lagune de Bizerte
2. Co-supervision with Ali Harzallah, the training of **Alexendre Bauvelain** (ENSTA of Paris), **2005**. The subject of the work is entitled: *Caractérisation hydrobiologique printanière de la lagune de Bizerte*
3. Supervision of the tutored project of Ms Nour El Houda Chaabane (Professional Master in Environment Bioserveillance, FSB). The subject of this Master's thesis is: Développement d'une base de données interactive des apports des rivières en Nutriments dans la lagune de Bizerte. (Defended, January **2012**).
4. Co-Supervision of the Project Graduation (PFE) of **Ines Boujmil** (Oceanographic Engineering, INAT). The subject of this Master's thesis is: Modélisation du transport de carbone sous la présence de la Moule bleue (Mytilus Edulis) et des Anémones sur plateforme pétrolière offshore en Mer du Nord (*Defended*, **2017**).
5. Co-Supervision of the Project Graduation of **Ghada Neji** (OGS, University of Trieste, Italy). The subject is entitled: Development of tourism in Djerba (Presented, **2021**).
6. Co-supervision of **Zaineb Haj Ammar's** project graduation (Earth and environment geomatics, FST). The subject is entitled: Assessment of the state of maritime and coastal tourism in relation to Human Activities and Natural Ecosystems in Tunisia (Defended, **2021**).
7. Supervision of **Malek Cherif's** Project Graduation (Géomatique Terre et environnement, FST). Le sujet s'intitule : Evaluation de l'état du tourisme maritime et côtier en rapport avec les Activités Humaines et les Ecosystèmes Naturels en Tunisie (*Defended*, **2021**).
8. Co-supervision of **Omar Abdallah's** graduation project (Géomatique de la terre et de l'environnement, FST). The subject is entitled: Development of a Dynamic WEBIG database of potential parameters and threats for the analysis of tourism development in TUNISIA and MED (*Defended*, September **2021**).

I.2. Project Graduations (PFE)/Internships (Ongoing)

NA

II. Teaching

1. Trainer at the Sectoral Center for Training in Public Works in Mornaguia (CSFTPM)/Tunisian Agency for Training in Public Works (ATFP). The courses are: (i) Fluid mechanics (General hydraulics) (BTS levels), (ii) Soil mechanics (BTS levels), (iii) Civil Engineering Structures (RDM) (BTS levels), (iv) Tender in public works (BTS levels). School years: From 2000-2001 to 2005-2006
2. Presentation of a course and practical work in Ecological Modeling to students of the 2nd year Engineering Cycle, Fisheries Section, Option: Environnement et Ressources Marines, National Agronomic Institute of Tunisia (INAT).
   Module: Ecological Modeling
   University years: 2007-2008/2009-2010
3. Presentation of a course and practical work in Ecological Modeling to students of the master's degree in *Bio-Surveillance de l'Environnement*/*Département de Sciences de la Vie*, Faculty of Sciences of Bizerte (FSB).
   Module: Ecological Modeling.
   University years: 2010-2011/2016-2017
4. Presentation of a course and practical work in Hydrodynamic Modeling to students of the master's degree in *Bio-Surveillance de l'Environnement*/*Département de Sciences de la Vie*, Faculty of Sciences of Bizerte (FSB).
   Module: Hydrodynamic Modeling.
   University years: 2010-2011/2016-2017 / 2017-2018
5. Presentation of a course and practical work to 3rd year students, Section *Halieutique, Option Environnement et Ressources Marines*, National Agronomic Institute of Tunisia (INAT).
   Module: Ecological Modeling
   Academic year: 2018-2019
6. Presentation of a course and practical work to students of the 2nd year Master of Research, Fonctionnement et Gestion des Ecosystèmes Aquatiques (FOGEA), National Agronomic Institute of Tunisia (INAT).
   Module: Ecological Modeling.
   Academic year: 2019-2020
7. Presentation of a course and practical work to 3rd year students, Section *Halieutique, Option Environnement et Ressources Marines*, National Agronomic Institute of Tunisia (INAT).
   Module: Ecological Modeling
   Academic year: 2020-2021
8. Presentation of a course and practical work to students of the 2nd Year Master of Research, Fonctionnement et Gestion des Ecosystèmes Aquatiques (FOGEA), National Agronomic Institute of Tunisia (INAT).
   Module: Ecological Modeling
   Academic year: 2020-2021

9. Presentation of a course and practical work to students of the 2nd year research Master "Conservation et Restauration des Ecosystèmes Marins: CREM", National Agronomic Institute of Tunisia (INAT).
   Module: Ecological Modeling
   Academic year: 2021-2022
   Academic year: 2022-2023
10. Presentation of a course and practical work deserved to 3rd year students, Section *Halieutique, Option Environnement et Ressources Marines*,, National Agronomic Institute of Tunisia (INAT).
    Module: Ecological Modeling
    Academic year: 2021-2022
    Academic year: 2022-2023

Compétences

I. Outils de Modélisation

1. **CROCO: C**oastal and **R**egional **O**cean COmmunity model
2. **ROMS** : **R**egional **O**cean **M**odeling **S**ystem
3. **MODEB : MO**dèle**D**ynamique et **E**cologie de la lagune de **B**izerte
4. **POM** : **P**rinceton **O**cean**M**odel,
5. **CORMIX** : **C**ornell **M**ixing **Z**one **E**xpert **S**ystem)
6. **UNIBEST** : **UNI**form **B**each **S**ediment **T**ransport system

II. Langages de Programmation

1. Fortran.
2. MATLAB.
3. Linux, bash, csh.

Autres informations

I. Langues

1. Arabe : Parlé, lu et écrit.
2. Français : Parlé, lu et écrit.
3. Anglais : Parlé, lu et écrit.

II. Google Scholar

1. Citations= 1097
2. h-index = 16
3. i10-index=23