

## Bécher Béjaoui

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### **a. Professional Preparation**

- Engineering Diploma, National Engineering School of Tunis (ENIT), Civil Engineering, July 1997.
- Master Diploma, National Engineering School of Tunis (ENIT), Hydraulic and Environment Modeling, February 2001.
- PhD Thesis, National Engineering School of Tunis (ENIT), Hydraulic Engineering, very Honourable, April 2009.
- Postdoctoral at Maurice Lamontagne Institute (Fisheries and Oceans Canada) 1<sup>st</sup> November 2009 until 31 Mars 2010.
- Postdoctoral at Fisheries Economics Research Unit (FERU, UBC, Canada) from September 1<sup>st</sup> - November 30<sup>th</sup> 2016.
- Postdoctoral at National Institute of Oceanography and Experimental Geophysics, Trieste, Italy” from 1<sup>st</sup> June until July 2<sup>9th</sup> 2018.

### **b. Appointments**

**2006- to date**, Researcher at INSTM, Hydrodynamic, bio-geochemical and sediment transport modeling of the marine, coastal and lagoon systems.

**2002 - 2007, Trainer/Engineer**, Sectoral training center in public works of Mornaguia (CSFTPM)/The Tunisian Agency of Professional Training (ATFP).

**1998-2001, Engineer**, Coastal Protection and Planning Agency (APAL), Minister of Environment and Sustainable Development, since 01 December 1998 until 21 May 2000.

### **c. Publications**

**Bécher Béjaoui**, 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., Belhassen M. (2018). Synthesis review of the Gulf of Gabes (Eastern Mediterranean Sea, Tunisia): Morphological, Climate, Physical oceanography, Biogeochemical and Fisheries features. *Estuarine Coastal Shelf Sciences*, Accepted, in press.

**Bécher Béjaoui**, Zina Armi, Ennio Ottaviani, Enrico Barelli, Emna Gargouri-Ellouz, Rim Chérif, Souad Turki, Cosimo Solidoro, Lotfi Aleya (2016). Random Forest model and TRIX used in combination to assess and diagnose the trophic status of Bizerte Lagoon, southern Mediterranean. *Ecological Indicators*, Volume 71, pg 293–301.

**Bécher Bejaoui**, Cosimo Solidoro, Ali Harzallah, Cristèle Chevalier, Annie Chapelle, Nouredine Zaaboub, Lotfi Aleya, (2016). 3D Modeling of phytoplankton seasonal variation and nutrient budget in a southern Mediterranean lagoon. *Marine Pollution Bulletin*, DOI : [org/10.1016/j.marpolbul.2016.11.001](https://doi.org/10.1016/j.marpolbul.2016.11.001).

**Bécher Béjaoui**, Ottaviani E., Barelli E., Ziadi Z., Dhib A.c, 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*, Volume 95, pg 765–774.

Achref Othmani, **Bécher Béjaoui**, Cristèle Chevalier, Dalila Elhmaidi, Jean-Luc Devenon, Lotfi Aleya, 2017. High-resolution numerical modelling of the barotropic tides in the Gulf of Gabes, eastern Mediterranean Sea (Tunisia). *Journal of African Earth Sciences*, Volume 129, 224-232

**Bécher Béjaoui**, Harzallah A., Moussa M., Chapelle A., Solidoro C., 2008. Analysis of hydrobiological pattern in the Bizerte lagoon (Tunisia). *Estuarine, Coastal and Shelf Science*, Volume 80, pg 121-129.

Alice Newton, Ana C. Brito, John D. Icely, Valérie Derolez, Inês Clara, Stewart Angus, Gerald Schernewski, Miguel Inácio, Ana I. Lillebø, Ana Isabel Sousa, **Bécher Béjaoui**, Cosimo

Solidoro, Marko Tomic, Miguel Cañedo-Argüelles, Masumi Yamamuro, Sofia Reizopoulou, Hsiao-Chun Tseng, Canu Donata, Leonilde Roselli, Mohamed Maanan, Sónia Cristina, Ana Carolina Ruiz-Fernández, Ricardo Lima, Björn Kjerfve, Nadia Rubio-Cisneros, Angel Pérez-Ruzafa, Concepción Marcos, Roberto Pastres, Fabio Pranovi, Maria Snoussi, Jane Turpie, Yurii Tuchkovenko, Brenda Dyack, Justin Brookes, Ramunas Povilanskas, Valeriy Khokhlov, 2018. Assessing, quantifying and valuing the ecosystem services of coastal lagoons. Journal for Nature Conservation, Accepted in press.

Wafa Feki-Sahnoun, Asma Hamza, **Bécher Béjaoui**, Mabrouka Mahfoudi, Ahmed Rebai, Malika el Hassen, 2018. Multi-table approach to assess the biogeography of phytoplankton: ecological and management implications. Hydrobiologia, Volume 811, 1, pg 1-23.

#### **d. Synergistic Activities**

- 2012, Organisation of an international Workshop entitled "Thau and Bizerte Lagoons, between Environmental Pressures and Sustainable Management", the 3 to 4 May 2012, Bizerte - Residence Nour Hotel. The workshop was funded by National Institute of Science and Technology (INSTM - Tunisia) & Institute of Research for Development (IRD - France) within the framework of bilateral cooperation between INSTM and IRD. The Workshop brought together the community of researchers working on the lagoons of Bizerte and Thau.
- Responsible of MODAPEX-Biz project funded by Tunisia research administration, 2016-2018.
- Reviewer of International Journals (Ecological Modelling; Marine pollution Buletin; Estuarine Coastal and Shelf Sciences; ...).

#### **e. Collaborators & Other Affiliations**

##### **(i) Graduate and Postdoctoral Advisors**

- Co-Advisor of Ines Mrabet master, National Engineering School of Tunis, 2010.
- Co-supervision of Saoussen Cheriaa the master, National Engineering School of Tunis, 2010.
- Advisor of Amel Béjaoui master, National Institute of Agriculture of Tunis, INAT, 2011.
- Advisor of the Nour El Houda Chaabane master, Faculty of Sciences of Bizerte, 2012.
- Advisor of Tarek Abdallah master, National Engineering School of Tunis, 2017.
- Advisor of Sidi Bouna SIDI master, Faculty of Sciences of Bizerte, 2018.

##### **(ii) Thesis Advisor and Postgraduate Sponsor**

Co- Advisor of the PhD thesis of Achref Othmani, Faculty of Sciences of Tunis,