

Mohab Mahmoud BADRELDIN

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Date of Birth: 13/02/1995.

Military status: Exempted

1. RESEARCH INTERESTS

- Fisheries Biology, Stock Assessment and Sustainable Management of the dominant fish species in the Egyptian Mediterranean Sea as well as the Non-Indigenous Species.

2. EMPLOYMENT

October 2020 – Present

Graduate Teaching Assistant (GTA) | College of Fisheries and Aquaculture Technology, Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt.

3. EDUCATION

2021 - 2025

College of Fisheries and Aquaculture Technology, Arab Academy for Science, Technology and Maritime Transport | Alexandria Egypt

MSc in Sustainable Management of Fisheries and Aquaculture

Thesis title: “**Biological Aspects and Population Dynamics of the European pilchard *Sardina pilchardus* (Walbaum, 1792) in the Egyptian Mediterranean Waters**”

- Conducted extensive field sampling and laboratory analyses to investigate the growth, reproduction, and mortality parameters of *Sardina pilchardus*.
- Applied Length-Based Spawning Potential Ratio (LB-SPR) to estimate spawning potential ratios and assess stock status.
- Utilized R programming for statistical modeling, data visualization, and implementation of fisheries stock assessment models.

2016 - 2020

College of Fisheries and Aquaculture Technology, Arab Academy for Science, Technology and Maritime Transport | Alexandria Egypt

BSc: Science of Fish Resources.

- Ranked the 1st of the Department (Grade: 3.98 “Excellent with Honors”).
- 146 Credit hours of general and specialized courses in Marine Ecology, Fish Physiology, Fisheries Statistics, Fishery Biology, Fisheries Population Dynamics as well as Fisheries & Maritime courses.

4. MISSIONS WITH THE FOOD AND AGRICULTURE ORGANIZATION (FAO)-UNITED NATION (UN)

- **(27 January – 29 January 2026)** Workshop on harvest strategy development and the use of management strategy evaluation (MSE), held at Tolip Hotel in Alexandria, Egypt.
- **(8 December – 14 December 2025)** Presented a SPiCT – based stock assessment analysis of the European pilchard *Sardina pilchardus* in the Egyptian Mediterranean Sea at the Working Group on Stock Assessment of Small Pelagic Species (WGSASP) in the Mediterranean Sea (GSA 26), held at FAO-HQ, Rome, ITALY.

- **(10 November– 14 November 2025)** Presented the stock assessment of the European pilchard *Sardina pilchardus* using SPiCT and LB-SPR in the Egyptian Mediterranean Sea (GSA 26) at the Data Preparation Meetings for Eastern Mediterranean Stocks, held at FAO-HQ, Rome, ITALY.
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5. CAREER, RESEARCH AND ACADEMIC ACTIVITIES

Projects

- Participated in the activities of the Project "MEDSEA4FISH" of the General Fisheries Commission for the Mediterranean (GFCM) - FAO.
 - **(15/02/2024 – Present)** Monitoring program on commercial and non-commercial species in GSA 26 (Data collection and laboratory work).
 - Fishery onboard observation program including incidental catch of vulnerable species in GSA 26.
- One of the team members responsible for collecting data on discards through Questionnaires and interviews with fishermen in the Egyptian Mediterranean Region.
- Biological aspects of *Sardinella aurita* caught by different fishing methods (Day-time Purse-seine and Night Purse-seine using FADs) off Alexandria, Egypt, EastMed project funded by Food and Agriculture Organization of the United Nations (FAO).
- Won 1st place in an Entrepreneurship competition in the Arab Academy for Science, Technology and Maritime Transport of project title “NoNets Company” about recycling the deformed fishing nets made from Polyethylene that are thrown to the ocean and along the coasts to produce Carbon nano-tubes material that is used in many fields and to save the marine environment.

Fisheries Onboard Observations & Field Trips:

- **(August 2019 – April 2020)** Discards Monitoring Onboard Fishing Vessels in the Egyptian Mediterranean Water (Trawl fishing vessels) within the framework of fisheries data collection process, funded by – General Fisheries Commission for the Mediterranean (GFCM), Food and Agriculture Organization of the United Nations (FAO).

Training Courses

- **(15 July – 19 July 2024)** “**Summer school in quantitative fisheries stock assessment 2024, Module 1: Data exploration and analysis**”, organized by the FAO fisheries department (GFCM, European Commission JRC, MedSea4Fish, BlackSea4Fish), Ispra, Italy.
- **(6 September – 17 September 2021)** Successfully completed online summer school on “**Ocean Governance for Sustainable Marine Ecosystems**”, participated in the group work on the **Canary Guinea Currents Large Marine Ecosystem**, hosted by Leibniz Zentrum für Marine Tropenforschung (ZMT), Deutsches Institut für Entwicklungspolitik (DIE) and the International Ocean Institute (IOI), via Zoom.
- **(28 June – 2 July 2021)** Participated in “**SEAPLANSPACE – Marine spatial planning instruments for sustainable marine governance**” project implemented by the University of Gdańsk in co-operation with Aalborg University, EUCC Baltic Office Lithuania, EUCC Coastal Union Germany, County Administrative Board of Kalmar, Maritime Institute of Gdynia Maritime University, Centre of Regional and Tourism Research, co-financed from the funds of the Interreg South Baltic Programme 2014-2020 and Successfully completed 40-hour SEAPLANSPACE SUMMER SCHOOL in the field of marine spatial planning instruments for sustainable marine governance, that was held on-line at MS Teams Platform, Gdańsk, Poland.
- **(7 June – 22 June 2021)** Successfully completed Online Programme of the summer school entitled “**Sustainable Blue Economy in the Mediterranean**” organized by University EMUNI & National Institute of Oceanography and Applied Geophysics (OGS), via Zoom.

Workshops, Webinars and Memberships

- **(25 May to 28 May 2026)** Participated online in the ICCAT **Working Group on Stock Assessment Methods (WGSAM)**, focusing on advanced fisheries stock assessment approaches.
- **(28 April 2026)** Attended NECCTON Training Session: “**From Monitoring to Management of Marine Ecosystems**”, organized by NECCTON Project and Mercator Ocean International, via Zoom.

- (27 March 2026) Attended the 31st NANO Webinar Series, featuring the presentation “**From Concept to Sea: Evaluating Performance and Real – World Challenges of Double – Wheeled Trawl Footgear**”, via Zoom.
- (12 March 2026) Successfully completed the course titled “**Management Effectiveness for Marine Protected Areas**”, Reef Resilience Network, NOAA Coral Reef Conservation Program.
- (27 January 2026) Successfully passed the final test associated to the course “**Management procedures for sustainable tune fisheries – Introduction**”, FAO eLearning Academy
- (27 March 2025) Successfully satisfied the requirements for “Data Visualization with R”, issued by IBM
- (25 November to 27 November 2024) Attended SEAWISE Training Course on “**Integration of the impact of environment on stocks productivity in Management Strategy Evaluation models**”, organized by International Council for the Exploration of the Sea (ICES).
- (15 November 2024) Successfully passed the final test associated to the course “**Strengthening deep-sea fisheries management in areas beyond national jurisdiction**”, FAO eLearning Academy
- (12 November 2024) Successfully passed the final test associated to the course “**Ecosystem approach to fisheries - Introduction**”, FAO eLearning Academy
- (25 April 2024 – 30 October 2024) Successfully achieving excellence in “**Digital Egypt Pioneers Program – Data Analyst Specialist**”, sponsored by Ministry of Communications and Information Technology of Egypt.
- (21 October – 23 October 2024) Participated in the training on “**FAO Web Training on the implementation of HACCP for Fisheries and Aquaculture**”, organized by Food Safety and Aquaculture Division and Fisheries and Aquaculture Division, FAO.
- (19 August – 23 August 2024) Successfully completed ICES Workshop on “**Status of Vulnerable Marine Ecosystems in the NEAFC Regulatory Area for 5 – year review**”.
- (18 March – 23 March 2024) Successfully completed IOI – Canada’s online course on “**OCEAN GOVERNANCE** AFTER COP 28: PROBLEMS, PROGRESS & PROSPECTS”
- (8 April 2024) Successfully completed “**Statistics Foundations 1: The Basics**”, LinkedIn Learning.
- (6 April 2024) Successfully completed “**R for Data Science: Analysis and Visualization course**”, LinkedIn Learning.
- (16 February 2024) Successfully completed the 30 hours online training course “**Ocean Data Management 2024**”, organized by the UNESCO/IOC Project Office for IODE in collaboration with the Flanders Marine Institute (VLZ).
- (16 February 2024) Attended the webinar “**Academic English Writing for Researchers**”, organized by INTERNATIONAL TRAINING AND ACADEMIC RESEARCH GROUP.
- (9 February 2024) Successfully completed the 20 hours online training course “**Sustainable Lake Management**”, organized by UNEP-DHI Centre, UN Environment and Cap-Net UNDP.
- (31 January – 1 February 2024) Successfully completed Training course for “**Credit Hours System & Academic Advising**”, organized by Faculty and Leadership Development Center at the Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt.
- (5 December 2023) Successfully completed and received a passing grade in “**R for Data Science**”, course on cognitiveclass.ai powered by IBM Developer Skills Network.
- (9 November 2023) Attended online training course on “**A practical course in the use of the SmartDots platform for egg and larvae identification and staging**”, organized by International Council for the Exploration of the Sea (ICES).
- (25 September – 27 September 2023) Attended virtually MINKE Workshop “**Introduction to Measurement Uncertainty for Young and Early Career Marine Scientists**” which was held at INRiM, in Torino (Italy) and online, organized by INRiM, MINKE, OGS, via Zoom.
- (10 June – 24 August 2023) Successfully completed 40 hours course in “**R Programming for Data Science**”, organized by Integrated Training & Business Solutions of Egypt, New Horizons Computer Learning Centers, & Skill Dynamics, Alexandria, Egypt.
- (11 April – 2 June 2023) Successfully completed IOI – Canada’s online course on “**Ocean Governance in the UN Decade of Ocean Science: Key Issues and Challenges**”.
- (11 April – 1 June 2023) Successfully completed IOI – Canada’s online course on “**Ocean Governance: SDG 14 and the UN Summit of the Future**”.

- **(21 May 2023)** Awarded with the **“Ecosystem Approach to Fisheries - Introduction”** digital badge, offered by FAO eLearning Academy.
- **(15 May – 16 May 2023)** Completed online training course in **“The use of the SmartDots platform for age reading and maturity staging”**, organized by International Council for the Exploration of the Sea (ICES).
- **(30 January – 30 March 2023)** Successfully completed training of the **“Data Analysis Using Excel & Power BI Diploma”**, organized by Arabian Academy for Recruitment and International Managerial Studies, Alexandria, Egypt.
- **(4 March 2023)** Successfully completed **“Introduction to Excel”** course offered by 365 Data Science.
- **(24 November – 25 November 2022)** Attended virtually an intensive training program entitled **“Arts and Skills of the Modern System of Scientific Research”**, sponsored by College of Islamic Sciences at Karabuk University and Scientific Institute for Advanced Training and Studies, via Google meet.
- **(13 September – 14 September 2022)** Attended virtually SHAREMED International Workshop entitled **“Connecting Marine Research and boosting benefits to Society”**, which was held at db San Antonio Hotel, Qawra, Malta. Via Zoom.
- **(6 September 2022)** Successfully completed a free online course **“Introduction to R”**, provided by Great Learning Academy.
- **(28 August – 29 August 2022)** Attended **“Water Quality Measurements and Laboratory Techniques”**, at the Central Labs at Alexandria Water Company, Alexandria, Egypt.
- **(7 August – 11 August 2022)** Active contribution in **“Principals of Coastal Water Quality Characteristics (Polluted and non – Polluted) Training Course”**, organized by City of Scientific Research and Technological Applications (SRTA.City), Environment and Natural Materials Research Institute (ENMRI).
- **(16 June 2022)** Attended online course entitled **“A Wish for Fish! - Introduction to Community Supported Fisheries”** organized by URGENCI, via Zoom.
- **(8 June 2022)** Active and valuable attendance and participation in **“The Celebration of world oceans day”**, Organized by UNESCO & National Institute of Oceanography and Fisheries (NIOF), online via Zoom.
- **(11 April – 2 June 2022)** Successfully completed IOI – Canada’s online course on **“OCEAN GOVERNANCE IN THE UN DECADE OF OCEAN SCIENCE: KEY ISSUES AND CHALLENGES”**.
- **(21 March 2022)** Completed all the required activities of this IUCN Red List Assessment module **“Module 1: Introduction to The IUCN Red List”**, **“Module 2: IUCN Red List Assessment”**, Online.
- **(3 February 2022)** Participated in the **“Virtual training course on the identification and handling of sea turtles incidentally caught during fishing operations”** organized by General Fisheries Commission for the Mediterranean (GFCM), Food and Agriculture Organization of the United Nations (FAO), in collaboration with Regional Coordination Group with support of Mediterranean Association to save the sea turtles (MEDASSET), Online via zoom.
- **(10 November – 11 November 2021 / 17 November – 18 November 2021)** Attended online training course on the **“Use of Local Ecological Knowledge (LEK) for the Eastern Mediterranean”**, organized by General Fisheries Commission for the Mediterranean (GFCM), via Zoom.
- **(8 November 2021)** Participated in **“World Tsunami Awareness Day 2021”**, organized by National Institute of Oceanography and Fisheries (NIOF), Alexandria, Egypt.
- **(30 September – 1 October 2021)** Successfully completed workshop entitled **“Policy and Advocacy for Mediterranean Sustainable Fisheries and Biodiversity”**, participated in the group work on the **North – Eastern Adriatic Sea Bottlenose Dolphins**, organized by International Union for Conservation of Nature International Union for Conservation of Nature (IUCN – Center for Mediterranean Cooperation) and conducted within the framework of MAVA Partner, via Zoom.
- **(28 September 2021)** Successfully completed a policy clarification exercise **“What Blue Economy Do We Want for The EURO – Mediterranean”**, organized by organized by University EMUNI, Institut Français De Slovénie & Université Internationale De La Mer, via Zoom.
- **(14 September 2021)** Attended the workshop entitled **“Unlocking the potential of Ports and Harbours in preventing and reducing the effects of Marine Litter”** organized in the frame of the BlueMed Initiative by the European Commission, the BlueMed Pilot on a Healthy, Plastic free, Mediterranean Sea, Federpesca, Cepesca, via Zoom.
- **(9 September 2021)** Attended online the training course on **“Applications of Remote Sensing and GIS in Environmental Studies”** organized by Scientific Environmental Service (SENS), via Zoom.
- **(31 August 2021)** Attended online the training course on **“Marine Birds”** organized by Scientific Environmental Service (SENS), via Zoom.

- **(22 August – 26 August 2021)** Coordinator of AAST summer training course entitled **“Basics of Marine Science and Seawater Quality”**, which was held at National Institute of Oceanography and Fisheries (NIOF), Alexandria, Egypt.
- **(5 August 2021)** Awarded with the **“Rules of the road at sea for small-scale fisheries”** digital badge, FAO eLearning Academy.
- **(2 August 2021)** Completion of **“Intro to Fishing”** course on behalf of the IGFA’s 80th Anniversary Initiative to teach 100,000 kids to fish, building the next generation of ethical, educated, and accomplished anglers around the world.
- **(15 July 2021)** Attended online webinar organized for the World Oceans Day 2021 under the title **“Marine Water Resources”** organized by National Institute of Oceanography and Fisheries (NIOF) & International Ocean Institute (IOI), via Zoom.
- **(3 July 2021)** Attended online webinar organized for the World Oceans Day 2021 under the title **“Marine Mineral Resources”** organized by National Institute of Oceanography and Fisheries (NIOF) & International Ocean Institute (IOI), via Zoom.
- **(19 June 2021)** Attended online webinar organized for the World Oceans Day 2021 under the title **“Marine Living Resources”**, organized by National Institute of Oceanography and Fisheries (NIOF) & International Ocean Institute (IOI), via Zoom.
- **(18 June 2021)** Successfully attended the Interreg Med MPA Engage Capitalization Event **“Mediterranean MPAs join forces to mitigate and adapt to Climate Change”** organized by MIO ECSDE, via Zoom.
- **(14 June – 17 June 2021)** Successfully completed online workshop entitled **“Natural Mortality: Theory, Estimation and Application in Fishery Stock Assessment Models”** organized by Center for the Advancement of Population Assessment Methodology (CAPAM), via Zoom.
- **(31 May 2021)** Successfully completed the online training **“Fundamentals of Aquaponics”** co-organized by the Ministry of Youth and Sport, Egypt and Octopus initiative.
- **(31 May 2021)** Online meeting entitled **“First Meeting of the Black Sea Aquaculture Observatory”** organized in collaboration with EUROFISH, via Zoom.
- **(11 April 2021)** Actively participated online in workshop entitled **“Study of natural resources in coastal areas in Egypt”** organized by Marine geophysics lab, National Institute of Oceanography and Fisheries (NIOF), Alexandria, Egypt.
- **(21 March 2021)** Successfully completed the online training **“How to Differentiate between Fresh Fish and Spoiled Fish”**, organized by the Ministry of Youth and Sport, Egypt, and Octopus initiative.
- **(6 January 2021)** Online webinar entitled **“Fish processing, A way for improving farm profitability and fish marketing Training Program”**, organized by The U. S. Soybean Export Council (USSEC) and the United Soybean Board (USB), which held in cooperation with Worldfish, Egypt.
- **(17 October 2020)** Awarded with the **“Climate-smart fisheries and aquaculture”** digital badge, FAO eLearning Academy.
- **(15 September – 16 September 2020)** Web conference entitled **“Climate Change and Blue Growth – new perspectives and trends- in the framework of the project Climate-Smart Coastal Practices for Blue governance”**, Interreg- IPA CBC, Greece – Albania Blue Coast.
- **(11 July 2020)** Attended online webinar entitled **“New Perspectives for Egyptian Marine Resources”** organized by National Institute of Oceanography and Fisheries (NIOF) & International Ocean Institute (IOI), via Zoom.
- **(7 July 2020)** Online Zoom Training course on **“Modern Modeling in Fish Stock Assessment”**, organized by National Institute of Oceanography and Fisheries (NIOF).
- **(30 June 2020)** Attended online webinar organized for the World Oceans Day 2020 under the title **“COVID-19’s Effects on Marine Life and Marine Activities”** organized by the National Institute of Oceanography and Fisheries (NIOF) & International Ocean Institute (IOI), via Zoom.
- **(13 June 2020)** Online Google Digital Certificate of achievement for the successful completion of the **“The Fundamentals of Digital Marketing”**.
- **(1 May 2020)** Successfully Completed **“Space Science and Satellite Overview for General Managers & Supervisors”** Course and Exam with a grade Distinction, Brilliant Remote Sensing Labs (BRS-Labs).
- **(22 December 2019)** Training on **“Web of Science, JCR, and Endnote”** at National Institute of Oceanography and Fisheries (NIOF), Alexandria, Egypt.
- **(8 September- 9 September 2019)** Workshop entitled **“Scientific Writing and Presentation Skills”** at National Institute of Oceanography and Fisheries (NIOF), Alexandria, Egypt.

- **(25 June 2019)** Workshop on “**An Overview of Pollution in Different Egyptian Ecosystem Environments**” Part (I), Organized by Marine Pollution lab, Marine Environment Division, National Institute of Oceanography and Fisheries (NIOF), Alexandria, Egypt.
- **(13 August – 16 August 2018)** Completed Practical Training in **Fisheries, Aquaculture and Environment departments**, at National Institute of Oceanography and Fisheries (NIOF), Alexandria, Egypt.
- **(24 July – 26 July 2018)** Workshop on “**Marine Environment of the Red Sea Problems and Solutions**” at National Institute of Oceanography and Fisheries (NIOF), Hurghada, Egypt.
- **(10 September - 12 September 2017)** Attended “**Blue Economy Conference to Achieve the African Agenda 2063 and Sustainable Development**” Suez University, Egypt.
- **(20 August – 24 August 2017)** Attended the iLead program “**Leadership Training Program**” Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt.

6. INTERSHIPS

- **(30 June – 6 July 2026)** Completed the Seminar on “**Marine Management and Blue Economic Development for Maritime Silk Road Countries**”, organized by Fujian Institute of Oceanography, Xiamen, the People's Republic of China.
- **(18 November – 1 December 2023)** Successfully participated at the international workshop “**Meteorological Instruments and Data Workshop**” in Freie Universität Berlin.
- **(8 May – 15 May 2022)** a short internship of a week in the **University of Palermo** in Italy.

7. PERSONAL SKILLS

- Experienced in designing and implementing effective data collection and sampling strategies.
- Ability to perform under pressure and manage stress in demanding environments.
- Strong leadership capabilities with experience in guiding teams and coordinating research activities.
- Excellent team player with a collaborative mindset and interpersonal skills.
- Highly disciplined in adhering to research protocols and standard operating procedures.
- Effective communicator with strong presentation and scientific writing skills.

8. PUBLICATIONS

- **Badreldin, M.**, Fahim, R. M., Al Solami, L., & Mahmoud, H. H. (2025). Biological aspects and population dynamics of the European pilchard *Sardina pilchardus* (Walbaum, 1792) in the southeastern Mediterranean waters. Journal of Fish Biology, 1–15. <https://doi.org/10.1111/jfb.70285>
- Mahmoud, H. H.; Ebrashi, A. E., **Baderldin, M.**, Fahim, R. M. (2024). Population Dynamics and Stock Assessment of Deep-Water Red Shrimps *Aristaeomorpha foliacea* and *Aristeus antennatus* in the Southeastern Mediterranean Waters. Egypt. Aquat. Biol. Fish., 28(1): 1093-1100.

9. ACADEMIC SERVICE

- **(27 April 2026)** Peer Reviewer, Open Veterinary Journal — reviewed an additional manuscript.
- **(15 January 2026)** Peer Reviewer, Open Veterinary Journal — reviewed 1 manuscript.

10. LEADERSHIP

- Head of Scientific Committee of the Student Council for 2 academic years (2016-2017/ 2017-2018).

11. LANGUAGES

- **Arabic** | Mother Tongue.
- **English** | Excellent.