

Curriculum Vitae



Personal information

Name: **Esmale A. Shakman**
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Education

Professor, in marine biology – 2020, Libya
PhD. Fishery and fish biology- 2008, Germany
MSc. Zoology – 2001, Libya

Activities

- Head of the 14th goal of the sustainable development goals" Conservation and sustainable use of the seas, oceans and marine resources to achieve sustainable development " (Libya)
- Member of the 15th goal of the sustainable development goals" the life on land " (Libya)
- Member of the IUCN SSC Shark Specialist Group membership
- Member of the Libyan oceanography society (LOS)
- Head of the Libyan Society of Artisanal Fishery Friends, (LSAFF)
- Member of Zoological Society of France (ZSF)

International Research projects

- Regional Activity Centre for Specially Protected Areas, [2024], National Monitoring Plan for the Management and Conservation of Cartilaginous Fishes (Chondrichthyans), including trade hotspots and bycatch assessment in Libya 2024 – 2030. by: **[Esmail Shakman]**, [SPA/RAC], SPA/RAC, Tunis, [26] pp.
- WWF, 2024. Ecological study of the Marine Protected Area of Farwa Lagoon in Libya **[Esmail Shakman]** [WWF. NA].

- WWF, 2024. Ecological study of the Marine Protected Area of Ain Al-gahzalla in Libya [**Esmail Shakman**] [WWF. NA].
- WWF, 2024. Fishery Stock Assessment in and around the Marine Protected Area of Al Gara in Libya. [**Esmail Shakman**] [WWF. NA].
- SPA/RAC, 2024. Rapid and Frame survey of Elasmobranchs in the Sirte Gulf of Libya. [**Esmail Shakman**] [SPA/RAC], Tunis.
- RAC/SPA - UNEP/MAP, 2023. Monitoring of Non-Indigenous Species in Libyan water (Farwa MPA, Tripoli port, Alghara and Ain Alghazhlla MPA). [**Esmail Shakman**] [SPA/RAC], SPA/RAC, Tunis.
- WWF, 2024. Fishery Stock Assessment in and around the Marine Protected Area of Farwa Lagoon in Libya. [**Esmail Shakman**] [WWF. NA].
- Development of framework and investment plan for the Libyan fishery sector- the African development bank, 2022
- RAC/SPA - UNEP/MAP, 2020. Elaboration of a synthetic overview on the ecological characterization of the coastal and marine area of Gulf of Sirt. [**Esmail Shakman**] [SPA/RAC], SPA/RAC, Tunis.
- Regional Activity Centre for Specially Protected Areas, [2018], Libyan National Action Plan for Non- Indigenous Species 2018 – 2022. by: [**Esmail Shakman**], [SPA/RAC], SPA/RAC, Tunis, [41] pp.
- Regional Activity Centre for Specially Protected Areas, [2017], [National monitoring programme for Biodiversity in Libya]; by: [**Esmail Shakman**], [SPA/RAC], SPA/RAC, Tunis, [64] pp.
- RAC/SPA - UNEP/MAP, 2013. Economic and social survey of El Kouf National Park in Libya. By Ibrahim BEN AMER and **Shakman Esmail**. Ed. RAC/SPA - MedMPAnet Project, Tunis: 29 pages.
- The fourth national report about implementation of biodiversity agreement. Convention on biological diversity (CBD) and Environmental general authority (EGA) Libya. 2010.
- **Shakman** 2010 National document of Libya aiming at the identification of important ecosystem properties and assessment of ecological status and pressures to Mediterranean marine and coastal biodiversity in Libya. CONTRACT n°62/RAC/SPA_2009
- Scientific study for aquaculture site selection on eastern region of Libya 6-4-99, 20.2.2002.
- Final report Blue fin tuna (*Thunnus thynnus*) in Libya, 2001 and 2002. MBRC – Libya and ICCAT.
- Artisanal fisheries in Libya census of fishing vessels and inventory of Artisanal fishery metiers. FAO / COPEMED. MBRC. 2000.
- Ecological study about the influence of industrial water waste on the coast of Abukamash (Libya) chemical compound 99-2000.

Professional experience

Nr.	(Expert months)	Location	Organisation	Position	Description
1	07/2022 – present	Algeria	Moroccan-north African platform of Artisanal fishery and aquaculture	Vice president	This platform includes a group of non-governmental associations that work in the field of artisanal fishery from North African countries and Mauritania, with the support of the FAO. It also works as a team and its last meeting was in July at the FAO headquarters. It is also interested in the impact of climate change on artisanal fishing.
2	01/2018 – present	Tripoli	Libyan climate change research center	Consultant	Member of the Scientific Committee at the Climate Change Research and Studies Center in the Environment Department. I participated in several dialogues on the impact of climate on coastal areas, especially the Forwa Reserve. There is a proposal to create a joint project for North African countries, and the center is still looking for the necessary funding.
3	04/2010 – present	Tripoli	Libyan Ministry of Environment	Consultant	He worked as a consultant with the Nature Conservation Department at the Ministry and participated in many studies and consultations internally and externally, the most recent of which was the National Biodiversity Strategy.
4	06/2015 – present	Tripoli	Libyan Society of Artisanal Fishery Friends, (LSAFF)	Director	In general, the aim of this association is to preserve marine and coastal biodiversity and it obtained a grant to study sustainability in Lake Forwa from CPEF and it has many national and international participations.
5	02/2022 – present	Tripoli	Libyan Ministry of Planning	Director	Coordination of SDG 14 “Conserve and sustainably use the seas, oceans and marine resources for sustainable development” (Libya). I submitted the first voluntary report on this goal with the participation of the committee members who are stakeholders and decision makers and the committee is still working on this goal to develop a strategy for this sector
6	10/2010 – present	Tripoli	Unit of Marine biology, Dept. of Zoology, faculty of science, University of Tripoli	Coordinator	I have been working since 2010 as a coordinator of the Marine Sciences Unit at the Faculty of Science, University of Tripoli, teaching undergraduate and graduate students and conducting exams.
7	10-12/july	Italy	UN and MAP-Mediterranean action plan	Consultant	Regional Meeting on IMAP Implementation: Best Practices, Gaps and Common Challenges
8	April 18-19, 2017	Tunisia	UN and MAP-Mediterranean action plan and SPARAC	Consultant	The Workshop for the validation of the national monitoring programme for Biodiversity in Libya”
9	20-21 October 2016	France	UN and MAP-Mediterranean action plan and SPARAC	Consultant	science Policy Interface (SPI) strengthening for the implementation of the UNEP/MAP Integrated Monitoring and Assessment Programme, for Pollution
10	2nd March 2017	Spain	UN and MAP-Mediterranean action plan and SPARAC	Consultant	Approach (RBA) for optimizing coastal and marine monitoring strategies
11	27 and 28 of	France	UN and	Consultant	EcApMED II project for the implementation of

Nr.	(Expert months)	Location	Organisation	Position	Description
	April 2017		MAP-Mediterranean action plan and SPARAC		EcAp in the Mediterranean

Publications

- **Shakman**, E ., Siafenasar A., Etayeb K., Shefern, A., Elmgwashi, A., Al Hajaji, M., Bek Benghazi, N., Ben Abdalha, A., Aissi, M., and Serena, F. 2023. National Inventory and status of Chondrichthyes in the South Mediterranean Sea (Libyan Coast)., Biodiversity Journal, 14 (3): 459–480. <https://doi.org/10.31396/Biodiv.Jour.2023.14.3.459.480>
- Al-Rzagy S., Abomies E. and **Shakman** E. (2023). Feeding Habits of Non-Indigenous Fishes *Siganus luridus*, *Siganus rivulatus* and Native Fish *Sarpasalpa* in Western Coast of Libya. Libyan Journal of Ecological & Environmental Sciences and Technology, 3 (1): 55-64
- Bek-Benghazi N., Al-Mgoushi A., Hadoud D. and **Shakman** E. (2020). Marine Mollusca of the Libyan waters, the southern Mediterranean Sea. J. Black Sea/Mediterranean Environment. 26 (3): 263-285
- Mancus C., (30) **Shakman** E., Serena F. (53) (2020). MEDLEM database, a data collection on large Elasmobranchs in the Mediterranean and Black seas. Medit. Mar. Sci., (21/2) 276-288. DOI: <http://dx.doi.org/10.12681/mms.21148>
- Kara A., Hajaji M., Ghmati H., **Shakman** E., (2019). Growth & Reproduction of *Mustelus mustelus* (Chondrichthyes: Triakidae) in the south Mediterranean (Libyan coast). LJEEST, 1, (2): 31 – 38.
- Kara A., Hajaji M., Ghmati H., **Shakman** E., (2019). Food and feeding habits of *Mustelus mustelus* (Linnaeus, 1758) (Chondrichthyes: Triakidae) along the western coast of Libya. ANNALES · Ser. hist. nat. 29, (2): 197-204.
- ELbaraasi H., ELabar B., ELaabidi S., Bashir A., ELSilini O., **Shakman** E. and Azzurro E. (2019). Updated checklist of bony fishes along the Libyan coasts (Southern Mediterranean Sea). Medit. Mar. Sci., 20/1: 90-105
- **Shakman** E., Eteayb K., Taboni I., Ben Abdalha A. (2019). Status of marine alien species along the Libyan coast. J. Black Sea/Mediterranean Environment. 25, (2): 188-209
- Abdelnor, Z., Niver, L., Bauselw, W., AL-Sharief, R., Ben zegalam S., **Shakman**, E. (2019). Parasite Fauna of the Herbivorous Fish *Siganus luridus* (Ruppell, 1829), *Siganus rivulatus* (Forsskal, 1775) and *Sarpa salpa* (Linnaeus, 1758) in the Western Coast of Libya. 1st Mediterranean Symposium on the Non-Indigenous Species (Antalya, Turkey, 17-18 January 2019).
- Kendallha K., Shtewi H., Elsalini O., and **Shakman** E. (2018). Biological Aspects of Black Scorpionfish, *Scorpaena porcus* (Linnaeus, 1758) in the Western Coast of Libya. Libyan Journal of Science, (21A): 13 – 23.

- **Shakman** E. A, Abdalha B. Abdalha, Talha F., Al – Faturi A., and Bariche M. (2017). First records of seven marine organisms of different origins from Libya (Mediterranean Sea). *BioInvasions Records* (6) 4: 377–382
- Boughedir, M. Rifi, E. **Shakman**, F. Maynou, R. Ghanem, J. Ben Souissi, E. Azzurro. (2015). Tracking the invasion of *Hemiramphus far* and *Saurida lessepsianus* along the southern Mediterranean coasts: A Local Ecological Knowledge study. *Mediterranean marine science* (16): 628 - 635
- Tobuni, Ben. Abdallah A., Serena F., **Shakman** E (2015). First documented presence of *Galeocерdo cuvier* (Péron & Lesueur, 1822) (ELASMOBRANCHII, CARCHARHINIDAE) in the Mediterranean basin (Libyan waters). *Marine biodiversity Records*. (1-5)
- Shahrani S. **Shakman** E. (2015). Food and feeding habits of *Scorpaena scorpa* Linnaeus, 1758 in the western part of Libya. *Libyan journal of marine science*. (14) : 5 – 15
- Shahrani S. **Shakman** E. (2015). Biological aspects of *Scorpaena scorpa* Linnaeus, 1758 in the western Libyan coast. *Libyan journal of marine science*. (14) : 29 – 42
- **Shakman** E.; Etyab K.; Taboni I., Et-wail M2; Ben Abdallah A (2014). Status of artisanal fisheries of the Libyan coast. International Congress on "Estuaries and Coastal Marine Protected Areas" ECPA 2014 (Izmir –Turkey).
- **Shakman** E. & Kinzelbach R. (2010). Reproduction and spawning period for Marbled Spinefoot *Siganus rivulatus* Forsskål, 1775 in the southern Mediterranean (Libyan coast). International conference on biodiversity of the aquatic environment, Lattakia, Syria.
- **Shakman** E. & Kinzelbach R. (2010). Reproduction and spawning period for Marbled Spinefoot *Siganus luridus* Forsskål, 1775 in the southern Mediterranean (Libyan coast). Conference Franco – Maghrebien of Zoology, Tunisia.
- Ben-abdallah A., Al-Turky A., Nafti A., **Shakman** E. (2010). A new record of the Lessepsian fish *Lagocephalus suezensis* Clark and Gohar, 1953 in the south Mediterranean (Libyan coast). *Acta Ichthyol. Piscat.* 41 (1): 71-72
- **Shakman** E., Boedeker C., Bariche M., and Kinzelbach R. (2009). Food and feeding habits of the lessepsian migrants *Siganus luridus* Ruppell, 1828 and *Siganus rivulatus* Forsskal 1775 (Teleostei: Siganidae) in southern Mediterranean (Libyan coast). *Biological Research J. Biol. Res.* 12.115-124.
- **Shakman** E., Kinzelbach R., Trilles JP., and Bariche M. (2009). First occurrence of native cymothoids parasites on introduced rabbitfishes in the Mediterranean Sea. *Acta Parasitologica* 54 (4): 380-384.
- **Shakman** E., Winkler H., Oeberst R., and Kinzelbach R. (2008). Morphometry, age and growth of *Siganus luridus* Ruppell, 1828 and *Siganus*

rivulatus Forsskal 1775 (Siganidae) in the central Mediterranean (Libyan coast). *Reviata de Biologia Marina y Oceanografia*, 43 (3): 521-529.

- **Shakman E (2008).** Lessepsian Migrant fish Species of the Coastal Waters of Libya: Status, Biology, Ecology. PhD. Rostock University – Germany
- **Shakman E. & Kinzelbach R. (2007).** First records of the lessepsian migrant *Erugosquilla massavensis* (Kossmann, 1880) in coastal waters of Libya (Crustacea: Stomatopoda). *Zoology in the Middle East* 40: 109-111. Heidelberg.
- **Shakman E. & Kinzelbach R. (2007).** First record of sweeper fish, *Pempheris vanicolensis* Cuvier, 1821, on the eastern Libyan coast. *Rostocker Meereskundliche Beitrage* 18: 81-83.
- **Shakman E. & Kinzelbach R. (2007).** Distribution and characterization of lessepsian migrant fish along the coast of Libya . *Acta Ichthyol. Piscat.* 37 (1): 7-15.
- **Shakman E. & Kinzelbach R. (2007).** Commercial fishery and fish species composition in coastal waters of Libya. *Rostocker Meereskundliche Beitrage* 18: 65-80.
- **Shakman E. & Kinzelbach R. (2006).** The halfbeak fish, *Hemiramphus far* (Forsskal, 1775) in coastal waters of Libya. *Zoology in the Middle East* 39: 111-112. Heidelberg.
- Ben-abdalha R., **Shakman E.**, Al-Turky A. (2002). Food and feeding habits of Little tunny *Euthynnus alletteratus* in the western Libyan coast. Mahdia, Tunisia.
- **Shakman E. (2001).** Biological studies of fish *Sardinella aurita* along the western Libyan waters. MSc. Thesis.

Workshops

- Genetic study of the rabbitfish *Siganus luridus* Ruppell, 1828 and *Siganus rivulatus* Forsskal 1775 (Teleostei: Siganidae). MBRC. 11-12 march 2007, workshop on marine biotechnology-Libya.
- Fishery and fishes of the south Mediterranean Sea (Libyan coast). Allgemeine & Spezielle Zoologie, Rostock University, Germany. 24.01.2008.
- Planning for Sustainable Fisheries in MPAs, MedPAN South & MedMPAnet, October 04 – 11, 2010, Kas, Turkey.
- GFCM workshop on age determination of Elasmobranchs, held in Antalya – Turkey October – 2012

- Workshop on site selection, allocated zones for aquaculture and site management for coastal marine aquaculture (WGSC-SHoCMed) ,M'Diq (Morocco) 4 -7 February 2013
- National Consultation Workshop, updating the CEPF Ecosystem Profile for the Mediterranean Basin, October 18, 2016 – Tunis
- Workshop on the Lionfish in the Eastern Mediterranean Sea: New problems, new solutions (Distribution, Eradication & Utilization) Grand Haber Hotel, Kemer - Antalya, TURKEY; 09-10 February 2017
- Workshop on Science Policy Interface (SPI) strengthening for the implementation of the UNEP/MAP IMAP in relation to Marine Litter, Biodiversity & fisheries, Hydrography, with a focus on the Risk Based Approach (RBA) for monitoring. in Madrid, Spain on 2 March 2017
- Workshop of validation of the national monitoring programme on biodiversity in Libya. In Tunis (Hotel Carthage Thalasso Ressor, Gammarth) on 18 and 19 April 2017
- Joint Workshop on Science Policy Interface (SPI) strengthening and Ecosystem Approach Coordination Group Meeting on IMAP scales of monitoring and assessment. Nice, France, on 27th and 28th April 2017
- Joint GFCM-UN Environment/MAP Sub-Regional Pilot Study for the Eastern Mediterranean on Non-Indigenous Species in Relation to Fisheries - Chania, Crete (Greece), 5 March 2018.
- Workshop on marine invasive species management in Mediterranean marine protected Areas Cyprus 24 to 26 April 2018.
- “Post-2020 SAPBIO Ionian Sea-Central Mediterranean Sub-regional Workshop” on Wed. March 03, 2021

International conferences

- Middle Eastern biodiversity congress, Aqapa – Jordan 20 – 23 october 2008, poster about invasive species of Libya.
- 24th conference of the European cetacean society, Stralsund 2010 Germany, paper about dolphin in Libya.
- 2nd conference of Franco – Maghrebien of Zoology and Ichthyology Jierjes 10 – 14, 2010 , Tunisia
- First international conference on biodiversity of the aquatic environment, towards a diverse and sustainable world, Lattakia, Syria – 13 – 15 December 2010, paper about *Siganus* sp. In Libya
- 2nd Djerba international Mediterranean Environment Sustainability conference, Tunis, 22 – 25 April 2012. Paper about exotic fish species

- 3th conference of Franco – Maghrebian of Zoology and Ichthyology Marrakech 6 – 10, 2012 , Morocco
- International Conference on Oceanography & Sustainable Marine Production: A Challenge of Managing Marine Resources under Climate Change Kuantan-Malaysia, 28-30 October 2013
- Les XVe Journées Tunisiennes des Sciences de la Mer & La 3^{ème} Rencontre Tuniso-Française d'Ichtyologie 14–17décembre 2013 À MAHDIA (TUNISIE)
- International Congress on "Estuaries and Coastal Marine Protected Areas" ECPA 2014 (Izmir –Turkey)
- 4th conference of Franco – Maghrebian of Zoology and Ichthyology Korba 6 – 10, 2014 , Tunis
- Les XVI^{èmes} Journees Tunisiennes des Sciences de la Mer du 19 au 23 Decembre 2015
- 41th conference of CIESM – in Kiel, 12 - 16 – September - 2016 Germany.
- Les XVII^{èmes} Journees Tunisiennes des Sciences de la Mer du 18 au 21 Decembre 2017. Sfax – Tunis
- Le 6e Congrès franco–tunisien de zoologie, le 6e Congrès franco–maghrébin de zoologie et les 118es Journées annuelles de la Société zoologique de France se tiendront à Paris du 21 au 23 novembre 2018
- Fishforum 2018. Forum on fisheries science in the Mediterranean and black sea. 10 – 14 Dec. 2018, FAO headquarters, Rome – Italy
- Marine key habitats and NIS symposia – Antalya – Turkey, 14 – 18 January 2019

Employment history

- Head of Graduate Studies and Training Administration in the Tripoli University (September - 2018)
- Director of the Office of Graduate Studies and Training, Faculty of Science, University of Tripoli (February - 2018)
- 2012 Member of scientific committee in marine biology research center – Libya
- 2010 Scientific Consultant in Environment general authority – Libya

- Member of scientific committee and Organizing committee in the 4th conference of Franco – Maghrebian of Zoology and Ichthyology Korba 6 – 10, 2012 , Tunis
- Member of CIESM Tropical Signals Program: monitoring macrodescriptor species of climate warming.
(<http://www.ciesm.org/marine/programs/tropicalization.htm>)
- Member of scientific committee in 1st National conference on marine and groundwater pollution, 26 – February -2017 – Tripoli – Libya
- 1993-1998 Assistance staff in Zawia University, Biology Department, Libya.
- 1998-2002 Researcher in Marine Biology Research Center, fish biology department. Tripoli – Libya.
- 2002 Lecturer in Zoology department Tripoli University, Tripoli - Libya.
- 2012 Assistant professor in Zoology department Tripoli University, Tripoli - Libya.
- 2016 Associate professor in Zoology department Tripoli University, Tripoli - Libya.
- 2010 Head of Oceanography branch in zoology department, Tripoli university
- 2015 Head of Higher Studies and Training Administration – Al-Jfara University
- 2015 Head of Zoology department – Al-Jfara University

Current Study (Grants)

- Invasive marine species of the Libyan coast, (**granted by NASR- Libya**)
- Ecology and biology of some flowing water ecosystems in eastern part of Libya, (**granted by NASR - Libya**)
- DELER, (**granted by EU**)
- Sustainability of fishing in Farwa Lake (**Critical Ecosystem Partnership Fund (CEPF)**)