

Curriculum Vitae

Family Name: Abdel-Mawla

First name: Essam

Nationality: Egyptian

Place/Date of Birth: 8/9/1963-Alexandria, Egypt.

Address: Arab Academy of science, technology and maritime transport.

Marital Status: Married with 2 children

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Current Position: Dean of Aquaculture Research Center. Arab academy for science, technology and maritime transport (from 1-7-2010).

Previous position:

- Lecturer in: National Institute of Oceanography and Fisheries, Aquaculture department, Alexandria Branch, Ministry of Scientific Research, Egypt (1988-2008).



- Research Assistance (Post Doctor Fellowship, Dec-2006: September 2008) in faculty of science, Biology Department, UAE university, Al-Ain, United Arab Emirates.
- Lecturer in Arab academy for science, technology and maritime transport (10-2008 to 7-2010).

Degrees:

- B.Sc. general Oceanography (May 1985 Alexandria University- with very good grade).
- M.Sc. in Botany (Suez Canal University, 1995).
- Ph.D. in biological oceanography (Alexandria University 2004).
- Ass.Prof. 2014

Experience:

2009	Senior GIS and Ecological modeler Impact of Sea Level Rise on Alexandria City (Arab academy of Science, technology and maritime transport with World Bank)
2009	Senior GIS and Ecological modeler Impact of Sea level Rise on UAE coasts (UAE university with Emirates Science Foundation)
2006-2008	Post Doctor Fellowship in UAE University Biological Research Assistance in project entitled: Mangrove Rehabilitation in Abu Alabyed Island.
2007	Developing database management system with a user interface software for Egyptian Red Sea Protectorate (funded by USAID)
2006	Lecturer in Arab Academy for Science and Technology and Maritime Transport.

	Teaching statistics, GIS and System dynamic.
2006	<p>Developing a Website for UNESCO Developing a website for the harmful algal groups in the North Africa. http://ioc.unesco.org/hab/HANA/hana.htm</p>
2004-2006	<p>Developing a GIS Viewer software for PERSGA and Africa This software is developed for “CEDARE” the center for environmental and development for the Arab Region and Europe.</p>
2004	Participating in Preparing a SAP Terminal Evaluation Report for PERSGA
2002-2004	<p>Developing a Database and GIS software for Living marine resources. This software was developed for “PERSEGA” through a subcontract with CEDARE</p>
1999-2002	<p>A GIS specialist, Biological Modeler and Map developer. In the Project entitled: “Fishery development of Lake Wady El-Ryan”, a project funded by the USA Aid with collaboration with NIOF (1999-2003). <u>Duties:</u> 1- Responsible for map development of Lake Wady El Ryan. 2- GIS studies of the ecological parameters in relation to the fishery Management and Development of the Lake. 3- Establishing a computer simulation model using Ecopath ecological model and DYRESM-CAEDYM biological model to simulate the ecological status of the Lake and its future developmental scenarios.</p>
1998-2000	<p>Computer Administrator and scientific programmer. In the Project entitled: “Modeling of the Egyptian Mediterranean forecasting system”, a project funded by the European commission with the faculty of science, Alexandria University (1998-2000). <u>Duties:</u> 1- A computer administrator responsible for software installation and computer management. 2- Establishment of the different aspects in “ERSEM” computer simulation model.</p>
1996-1999	<p>GIS specialist and Multimedia and database programmer In the Project entitled: “Egyptian Red Sea Coastal and Marine Resource Management Project” (1996-1999, Cairo), a project funded by the</p>

	<p>World Bank in collaboration with Red Sea Governorate, RSG), (Egyptian Environmental Affairs, EEAA), and (Tourism developmental authority, TDA).</p> <p>Duties:</p> <ol style="list-style-type: none"> 1- Constructing the database files used in the GIS studies of the project. 2- Processing the Satellite image of the project study area (using Erdas Imagine). 3- Developing the GIS maps of the different ecological aspects of the study area. 4- Developing multimedia software describing the project aims and results. 5- Developing a Database inventory of the ecological parameters of the study area.
1997-1998	<p style="text-align: center;">Marine biologist</p> <p>In the project entitled: “Marine calcification from molecular –cellular levels to global CO₂ control” funded by the German ministry for education, scientific research and technology with a collaboration with NIOF 1996-1998.</p> <p>Duties:</p> <ol style="list-style-type: none"> 1- Rearing and culture of foraminifera species collected from Red Sea. <p>Carrying the laboratory experimental studies about the physiological characters of the foraminifera species.</p>

Publication:

Laurent, L.; Abdel-Mawla, E.; Bradai, M.N.; F. Demirayak and A. Oruc. (1995). Reducing sea turtle mortality induced by Mediterranean fisheries: Trawling activity in Egypt, Tunisia and Turkey. Report for the WWF International Mediterranean Program.

Laurent, L.; P. Casale; MN. Bradai; BJ. Godley; G. GEROSA BRODERICK; W. Schroth; B. Schierwater; AM. Levy; D. Freggi;

EM, ABD EL-MAWLA; DA, Hadoud; HE, Gomati; M, Domingo; M, Hadjichristophorou; L, Kornaraky; F, Demirayak and CH. Gautier (1998) . Molecular resolution of marine turtle stock composition in fishery bycatch: a case study in the Mediterranean. *Molecular Ecology* 7(11): 1529-1542.

Abdel-Mawla, E. and Ghalwash, G. (2005). Modeling the ecological impact of marine oil spill pollution using GIS-Decision support system. The 9th International Maritime Conference, Alex, 18-19 December, 2005.

Abdel-Mawla, E. and Ghalwash, G. (2005). Modeling the environmental risk analysis due to tankers oil spill using the system dynamics approach. *Arab Institute Journal Of Navigation (AIN)*, 20, 59-66.

Abo-Elela, G.; Elasersy, N.; Elshenawy, M. and Abdel-Mawla, E. (2005). Microbial assessment of El-Max Fish Farm. *Egyptian Journal of Aquatic Research*. Vol. 31(1). 171-184.

Abdel-Mawla, E. (2010). Application of Remote sensing in Mapping arid wetland habitats of Saadiyat Island using remote Sensing. *Journal of Arab Institute of Navigation*, Vol (25): 44-52.

Abdel-Mawla, E. (2010). Assessment the impact of Sea-Level-Rise on the Egyptian Mediterranean coasts. *Journal of Arab Institute of Navigation*, Vol (25): 9-14.

Abdel-Mawla, E. (2010). Role of site hydrology as a major component in mangrove restoration: A case study in Abu Al Abyad and Eastern Mangrove Islands, UAE. *Maritime Scientific Research Journal*. Vol. (1) No. (2): 111-124.

- Abdel-Mawla, E. (2011). Modeling the Nutrients-Food web interactions in Aquatic Ecosystem using System Dynamics Techniques. *Maritime Scientific Research Journal*. Vol. (2) No. (1): 49-58.
- Attia, A.; Khater, H.; Abdel-Mawla, E. and Badawy , O. (2011). A GIS-Based System to Resolve emergency routing problems in Tobruk City, Libya. ICCTA, 2011, 15-17 October 2011, Alexandria, Egypt.
- Elhaweet, A.E.; Fishar, M.R.; Geneid, Y. and Abdel-Mawla, E. (2011). Assessment of fisheries and marine biodiversity of Sallum Gulf, Egypt. *INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND ENGINEERING (IJESE)* Vol. 1: 21-34
- Ksiksi, T.S., Youssef, T. and Essam Abdelmawla, E. (2012). Sea Level Rise and Abu Dhab Coastlines: An Initial Assessment of the Impact on Land and Mangrove Areas. *J Ecosyst Ecogr* 2012, 2:4
- Morsy O.M.; Sharoba A.M.; EL-Desouky A.I.; Bahlol H.E.M. and Abd El Mawla E.M. (2014). Production and evaluation of some extruded food products using spirulina algae. *Annals of Agric. Sci., Moshtohor* Vol. 52(4) (2014), 329–342
- Safaa Abbas Abed; M.O. El-Shazely; Kawkab A. Ahmed; Essam M. Abdel-mawla and Adel K. Ibrahim (2015). Therapeutic Effects of Spirulina Platensis on Streptozotocin-Induced Diabetic Rats. Egypt. J. Comp. Path & Clinic Path. Vol. 28 No.1; 18- 31.
- Safaa Abbas Abed; M.O. El-Shazely; Kawkab A. Ahmed; Essam M. Abdel-mawla and Adel K. Ibrahim (2015). Pathological, Immunohistochemical and Biochemical Studies on The Therapeutic

- Effect of Raphanus Sativus Oil on Streptozotocin Induced Diabetic Rats. Egypt. J. Comp. Path & Clinic Path. Vol. 28 No.1, 2015 ; 1- 17
- El-Dakhly A.T and Abdel-mawla-E. (2016). The Impetus influences of spirulina as immunostimulant on the response of ppr vaccine in small ruminant. EPRA International Journal of Research and Development (IJRD). Vol 1(2): 1-9.
- M.O. Elshazly; Ashraf M. Morgan; Merhan E. Ali; Essam Abdel-mawla and Sahar S. Abd El-Rahman (2016). The mitigative effect of Raphanus sativus oil on chromium-induced geno- and hepatotoxicity in male rats. Journal of Advanced Research (2016) 7, 413–421.
- Ashraf Mahdy Sharoba, Osama Mahmoud Morsy, Essam Abdel-Mawla, and Hammam Bahlol (2017). Utilization of Spirulina to Improve the Nutritional Value of some Foods Products such as(Snacks, Biscuit and Juices). LAP LAMBERT Academic Publishing GmbH & Co. KG, Saarbrücken, Deutschland. ISBN: 978-3-330-01359-9

Supervised Thesis:

- Ataï Z. M. (2006). Management of wastes associated with an offshore oil and gas production platform located at offshore Abu Dhabi UAE. Master thesis, Arab Academy for Science and technology and Maritime transport.
- Gamel Ibrahim Biome (2006). Human impact on Red Sea Coral reef ecosystem. Ph.D. thesis, Arab Academy for Science and technology and Maritime transport.

Saoud Ali A-Junaibi (2007).Using remote sensing for natural Hazard Assessment and crises management of Abu Dhabi marine port. Ph.D. thesis, Arab Academy for Science and technology and Maritime transport.

Thamer Ben Allaway Al-Ibrahim. (2007). Studying the distribution of seaweeds using remote sensing technique around Masira Island, Oman. Master thesis, Arab Academy for Science and technology and Maritime transport.

Omar, M. (2009). Studying the most common Human mistakes in LNG operations using simulation modeling techniques. AASTMT, Faculty of Maritime Transport. AASTMT, Faculty of Maritime Transport.

Fahed, M. (2010). Application of GIS and Remote sensing in modeling and predicting flash floods, case study Jada, KSA. Msc. thesis, Arab Academy for Science and technology and Maritime transport.

Ahmed Attia Awad (2012). Enhancing emergency services using personal mobil (GIS) in Tobruk city, Libya. Msc. thesis, Arab Academy for Science and technology and Maritime transport. College of computing and Information Technology.

ماجدة محمد عيسى بالنور- (2006). رصد وتقييم الملوثات باستخدام تقنية الاستشعار- عن بعد (دراسة حالة بحيرة مريوط) - رسالة ماجستير- مقدمة إلى الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري.

محمد سعد خواسك (2006). استخدام النمذجة الرياضية لقياس درجة الكفاءة الاقتصادية لتحسين أداء الموانئ. - رسالة ماجستير- مقدمة إلى الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري.

خالد محمد مكي زكريا (2006) . مقترح الإدارة المتكاملة للبيئة الساحلية لمنطقة الحديدة - اللحية على ساحل البحر الأحمر اليمني. رسالة دكتوراه مقدمة إلى الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري.