CURRICULUM VITAE

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Date of Birth	:	11th April, 1952
Place of Birth	:	Cairo - Egypt
Mailing Address	:	Zoology Dept., Fac. Science, Ain Shams Univ., Cairo, Egypt
Major	:	**Aquatic Ecology, Biodiversity, Environmental Conservation, Protected areas Management .**
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Title		- Prof. of Aquatic Environment, Faculty of Science, Ain Shams Univ. - Legal Expert in the Ministry of Justice for Environmental Cases - Ex-Director of Center of Research of Protectorates, Ain Shams University - Ex-Head of Zoology Dept., Faculty of Science, Ain Shams Univ. - Ex- Head of the Promotions Committee of Zoology and Entomology(2017- 2019). - Scientific advisor at the Fisheries Development Authority (2012 –till now). **https://www.scopus.com/authid/detail.uri?authorId=7201756221** **https://orcid.org/0000-0002-5445-9437**

EDUCATION

1973 **B.Sc**. Zoology Department, Faculty of Science, Ain-Shams University.

1978 **M.Sc.** Aquatic Ecology, Ain-Shams University. The subject of the thesis was : "ECOLOGICAL AND BIOLOGICAL STUDIES UPON ZOOPLANKTON OF LAKE QARUN, FAYOUM, EGYPT."

1985 **Ph. D**. Aquatic Ecology, Syracuse University, New York (USA) and Ain-Shams University, Egypt. The subject of the dissertation was :
"STUDIES ON THE POPULATION DYNAMICS OF ANIMAL ORGANISMS AND EFFECT OF POLLUTANTS UPON SOME OF THEM IN LAKE WADI EL RAYAN (EL-FAYOUM, EGYPT).

1990 **Assistant Professor** Degree in environmental Sciences and Ecosystem Management.

1998 **Professor** Degree in Environmental Sciences and Ecosystem Management.

EXPERIENCE

1- Worked as an Assistant Lecturer at Zoology Department, Faculty of Science, Ain-Shams University (1973-1984).
2- Worked as a Lecturer, Ain-Shams University (1985-1990).
3- Courses : General Ecology; Mollusca and Echinodermata; Environment and human; Freshwater Biology; Aquatic Ecology;Marine Biology

4- Worked as an Assistant Professor, Ain-Shams University (1990-1997).

5- Worked as an Professor, Ain-Shams University (1998 - now).

6- Attended a training period in the National Research Center, Egypt (1979), in the field of "Organic and Inorganic Pollutants in Water".

7- Awarded a "Peace Fellowship" in Syracuse University, New York, USA from 1981-1983 and a "Teaching Assistantship" at Biology Dept. (Syracuse Univ.) in 1983 for one academic year.

8- Teaching at the "Institute of Environmental Studies and Research, Ain-Shams University" since 1986 uptill now (Part - Time).

9- Teaching in Oman at the Education College from 1988-1992. Involved in a project to study the Ecology of Oman Coasts.

10- Teaching in the United Arab Emirates University, Faculty of Science, Biology Department, from September 1996 To August 1999.

SCIENTIFIC RESEARCH AND PROJECTS:

1- Scientific Consultant of a Project for the inventory, registration and documentation of animal genetic resources (**Phase 1: Documenting the genetic resources of hard corals along the Red Sea coast and the Gulf of Aqaba**). Supported by Department of Natural Protectorates of the Egyptian Environment Affairs Agency **(EEAA**), since Feb. 15 2026 till now.

2- PI of ASRT Project # 19447 "**Rehabilitation of bleached Coral Reefs in Red Sea by culturing selected high-temperature resistant species**). Financially supported by **Academy of Science and Technology**; Climate Change Adaptation and Nature Conservation (GREEN FUND). From November 2022 to May 2026.

3- Paticipating in a project financed by Ain Shams University, Scientific Research Sector entitled; Assessment of hospital wastewater disposal hazards with a special scope on designing biological model and nanocomposite photocatalysts for treatment (2022- 2023).

4- PI of a project supported by Ain Shams University, Scientific Research Sector entitled; Evaluation of the role of chitosan and nanoparticles of chitosan (that extracted from Nile crayfish) to alleviate the toxic effect of heavy metals on the Nile tilapia in fish farms., 2020-2022.

5- PI of ASRT JESOR Project "Novel extraction and industry from wastes and exoskeleton of the introduced freshwater crawfish" Academy of Scientific Research and Technology with the cooperation of University of New Brunswick (Saint John), Canada, 2016 -2018.

6- PI of A Referential Study on Environmental Impact Assessment of the New Suez Canal on Biodiversity of the Mediterranean Sea, Academy of Scientific Research & Technology (2016).

7- PI of Roadmap for **Sustainable Environmental Management of the Northern Egyptian Lakes; Case study: Burullus wetland**, Academy of Scientific Research & Technology (2016).

8- Participated in a project for **Roadmap for Sustainable Development and Green Economy**, Academy of Scientific Research & Technology (2013).

9- Participated in a project for studding the **impact of Climate Changes on Biodiversity.** Supervised by EEAA (2013/2014).

10- PI of a project supported by Ain Shams University, Environmental Research Sector for biological treatment of sewage in Gabal Asfar Area, and reusing of treated water in rearing the colour fish, 2010.

11- Supervised a project supported by European Com. For developing a new industry about the crayfish, from 2009 to 2011.

12- Supervised a project supported by Ain shams university for participation in the **management of protected islands of the River Nile** (2007 – 2008).

13- PI of a project supported by Academy of Science & Technology to establish a data bank for Ecologists in Egypt (2006/2007).

14- PI of a project supported by Fulbright Com. for **developing a comprehensive curriculum and training program to promote the acquisition of knowledge and skills for working in the protected areas and environmental field,** with the collaboration of Prairie View A&M Texas University, USA and Scientific & Research Center of Protected Areas at Ain Shams University, Egypt (2005/2006).

15- Shared in establishing Management Plans for 3 wetlands (Protected Areas) at the Mediterranean coastal area; from May 2003 uptill April 2008.

16- Joined a Regional Project for the **Conservation of Wetlands and Coastal Ecosystems in the Mediterranean Region** as a National Coordinator of descriptive studies of 3 protectorates , for protecting Mediterranean Basin; from May 2001 uptill April 2006.

17- Joined a project supported by OPERATIONAL UNIT FOR DEVELOPMENT ASSISSTANCE (OUDA) through Consulting Engineers Services for biological treatment wastewater before discharging into Lake Manzala as well as Mediterranean Basin and reusing it in agriculture and fishculture, from February 2000 - 2004.

18- Joined a project for **studying the biodiversity of 3 protectorates at Gulf of Aqaba (Ras Mohammed, Nabek, Abogalloum**), from March 1994 to July 1995. This project has been supported by the Department of Natural Protectorates of the Egyptian Environment Affairs Agency (EEAA).

19- In cooperation of Texas Gulf Coast Environmental Data (TEXGED) Center, **Prairie View A&M University** and Center of Research & Studies of Natural Protectorates, Ain Shams University "Maximizing the Utilization of Freshwater Crayfish in Egypt" during 2000 and 2001.

20- Joined a project (as a Principal Investigator) for **preparing "Egypt country study on biological diversity" (Aquatic Fauna).** It is a joint project between National Biodiversity Unit of **Egyptian Environment Affairs Agency (EEAA) and UNEP**, from September 1993 to December 1994. Through this project, 8 detailed studies on species diversity of 8 taxa of freshwater organisms have been prepared. Besides, 8 volumes on "Habitat diversity of coastal lagoons and inland lakes" have been published

21- Joined a project supported by Ain-Shams University for **studying the effects of pullution on the biodiversity of the Red Sea coast**, from November 1992 to July 1994.

22- Joined a project supported by the Academy of Scientific Research and Technology, for developing the "Fauna Museum" in Zoology Dept. Faculty of Science, Ain-Shams University, from November 1992 to December 1994.

23- Joined an Egyptian project supervised by Ain-Shams University for studying the effects of pollutants upon fauna of lakes Manzala and Mariut, from January, 1987 to January, 1988.

24- Joined, as an Ecologist, and American-Egyptian Project supervised by "Theoder-Bilharz Research Institute, Egypt" for testing Echinostoma liei as a biocontrol agent against Schistosoma mansoni, from Jan., 1986 to August, 1988.

25- Joined, as an Ecologist, in American Project supervised by the College of Engineering at Syracuse University, U.S.A. (September, 1981) to investigate the water quality and the effect of the industrial wastes upon three rivers system in central New York; Seneca, Oneida and Oswego Rivers. The system is a highly valuable resource to the Central New York area.

26- Worked as a "Limnologist" in the National Institute of Oceanography and Fisheries (Egyptian-American Joint project which studied pollution at Wadi El-Rayan Lakes)- (1979-1981).

27- Worked as a Limnologist in a Canadian Company : "James F. MacLaren Ltd." in a project aiming at the development and management of Lake Manzala, Egypt (1979-1980).

The work in the Canadian project concentrated on the following :

-Fish Biology.

-Zooplankton, phytoplankton and Bottom fauna analyses.

-Water chemistry of the lake.

28- Worked in an Egyptian American Project for developing Lake Qarun (1973-1978).

- **SUPERVISED 43 THESES AND DISSERTATIONS ON ECOLOGY AT AIN-SHAMS NIVERSITY, FACULTY OF SCIENCE AND THE INSTITUTE OF ENVIRONMENTAL STUDIES AND RESEARCH.**

SYMPOSIUMS AND CONFERENCES

1- ALL CONFERENCES OF AIN SHAMS UNIVERSITY (2012- 2022)

2- ALL CONFERENCES OF FACULTY OF SCIENCE, AIN SHAMS UNIVERSITY (2017- 2021)

3- "THE SECOND INTERNATIONAL CONFERENCE FOR FISH RESOURCE DEVELOPMENT IN EGYPT." - PORT SAID, EGYPT. APRIL 22-24, 1986.

4- THE SECOND CONGRESS FOR THE ZOOLOGICAL SOCIETY OF A.R. EGYPT, 25TH ANNIVERSARY-CAIRO UNIVERSITY, EGYPT. NOV. 15-17, 1986.

5- THE INTERNATIONAL SYMPOSIUM FOR BIO-INDICATORS OF POLLUTION; UNDER THE SPONSORSHIP OF THE INTERNATIONAL UNION OF BIOLOGICAL SCIENCE - NATIONAL CENTER FOR RESEARCHES, CAIRO, EGYPT. NOV. 1986.

6- THE NATIONAL CONFERENCE OF CONTROL SCHISTOSOMA DISEASE IN EGYPT. ARAB NATIONS LEAGUE, CAIRO, EGYPT. DEC. 26, 1986.

7- THE SECOND INTERNATIONAL SYMPOSIUM ON TILAPIA AQUACULTURE. BANGKOK, THAILAND. MARCH 16-20, 1987.

8- XXIX GEORGIKON DAYS KESZTHELY CONFERENCE; FISH, FISHERIES AND NATURAL WATERS, HUNGARY. AUGUST 25-26, 1987.

9- THE FIRST NATIONAL CONFERENCE ON THE ENVIRONMENTAL STUDIES AND RESEARCH - AIN SHAMS UNIVERSITY, CAIRO, EGYPT. JAN. 31- FEB. 4 , 1988.

10- THE FIRST SCIENTIFIC CONFERENCE ON ROLE OF SCIENTIFIC RESEARCH IN DEVELOPING FISH RESOURCES. ALEXANDRIA UNIVERSITY, ALEXANDRIA, EGYPT. AUGUST 6-8, 1988.

11- FIRST INTERNATIONAL CONFERENCE FOR TRACE METALS IN LAKES. MCMASTER UNIVERSITY, HAMILTON, ONTARIO, CANADA. AUGUST 15-18, 1988.

12- WORKSHOP ON DATA MANAGEMENT OF BIODIVERSITY, NATIONAL BIODIVERSITY UNIT, EGYPTIAN ENVIRONMENT AFFAIRS AGENCY. JANUARY 16-18, 1995.

13- THE SCIENTIFIC RESEARCH AND THE BIODIVERSITY IN THE ARAB COUNTRIES. HALAB UNIVERSITY, SYRIA. SEPTEMBER 5-7, 1995.

14- THE THIRD CONFERENCE ON THE POLLUTION OF ENVIRONMENT IN DEVELOPING COUNTRIES, CAIRO, EGYPT. NOVEMBER 19-23, 1995.

15- THE 6TH INTERNATIONAL CONFERENCE FOR THE EGYPTIAN - GERMANY SOCIETY OF ZOOLOGY, AIN-SHAMS UNIVERSITY, CAIRO, EGYPT, APRIL 2-4, 1996.

16- ORGANIZING ALL THE SYMPOSIUMS OF EGYP. SOC. OF FISH. RES. DEVELOPS. (1996- 2015)

SCIENTIFIC SOCIETIES

1- MEMBER IN THE NATIONAL COMMITTEE OF ENVIRONMENTAL AFFAIRS, EGYPTIAN ACADEMY OF SCIENCE AND TECHNOLOGY, EGYPT.

2- MEMVER IN BIODIVERSITY PROFESSIONALS GROUP.

3- MEMBER IN THE COMMITTEE OF DEVELOPING AND ENVIRONMENTAL RESEARCH, EGYPTIAN ACADEMY OF SCIENCE AND TECHNOLOGY,EGYPT.

4- REFREE IN THE USA FULBRIGHT COMMISION FOR SELECTION OF GRANTS.

5- REFREE IN THE PRIZE OF ARABIC CITIES ASS., DOHA, QATAR.

6- REFREE IN THE PRIZE OF PROF. MUSTAFA TOLBA FOR ENVIRONMENT, EGYPTIAN ACADEMY OF SCIENCE AND TECHNOLOGY, EGYPT.
7- MEMBER IN THE ECOLOGICAL SOCIETY OF AMERICA, USA.
8- MEMBER IN THE INTERNATIONAL ASSOCIATION OF ASTACOLOGY, USA.
9- MEMBER IN THE NATIONAL GEOGRAPHIC SOCIETY, USA.
10- MEMBER IN THE INTERNATIONAL CENTER FOR LIVING AQUATIC RESOURCES MANAGEMENT, PHILIPPINES.
11- MEMBER IN THE ZOOLOGICAL SOCIETY OF EGYPT, EGYPT.
12- MEMBER IN THE EGYPTIAN ASSOCIATION FOR CONSERVATION OF NATURAL RESOURCES, EGYPT.
13- MEMBER IN THE EGYPTIAN SOCIETY OF ZOOLOGY, EGYPT.
14- MEMBER IN UNION OF ARAB BIOLOGISTS, CAIRO, EGYPT.
15- MEMBER IN THE EGYPTIAN - GERMANY SOCIETY OF ZOOLOGY, EGYPT.

ENVIRONMENTAL IMPACT ASSESSMENT & PUBLIC CONSULTATION:

- BIODIVERSITY MANAGEMENT OF AQUATIC AND TERRESTRIAL ENVIRONMENTS AROUND BANY SWIF POWER PLANT (DECEMBER 2021).
- BASELINE TERRESTRIAL ECOLOGY OF BURULLUS POWER PLANT SITE (BURULLUS RAMSAR SITE), (JANUARY, 2016).
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- BASELINE STUDY OF FLORA & FAUNA AND IMPACT ASSESSMENT OF ABU QIR TO ALEXANDRIA URBAN RAIL TRANSIT PROJECT (NOVEMBER 2015).
- BASELINE MARINE ECOLOGY OF BURULLUS POWER PLANT SITE (NOVEMBER 2015).
- BASELINE STUDY OF FLORA AND FAUNA OF THE NEW ADMINISTRATIVE CAPITAL POWER PLANT SITE (AUGUST 2015).
- BASELINE STUDY OF FLORA AND FAUNA OF JOTUN FACTORY SITE (JULY, 2015).
- BASELINE STUDY OF FLORA AND FAUNA OF AYOUN MOUSSA POWER PLANT SITE (JUNE 2015).
- BASELINE AQUATIC ECOLOGY AND IMPACT ASSESSMENT OF DAMANHUR POWER PLANT (MARCH 2015).
- BASELINE TERESTRIAL ECOLOGY (FLORA & FAUNA) AND IMPACT ASSESSMENT OF DAMANHUR POWER PLANT (MARCH 2015).
- BASELINE AQUATIC ECOLOGY AND IMPACT ASSESSMENT OF EL_SIOF (ALEXANDRIA) POWER PLANT (MARCH 2015).
- BASELINE TERESTRIAL ECOLOGY (FLORA & FAUNA) AND IMPACT ASSESSMENT OF EL_SIOF (ALEXANDRIA) POWER PLANT (MARCH 2015).
- EIA STUDY ON A COMPANY FOR CHEMICAL INDUSTRIES AT WADI NATROUN (BIOLOGICAL AND ECOLOGICAL STUDY)-2014.
- EIA STUDY ON MARINE AQUACULTURE AT RAS RAIA, TOR CITY, SOUTH SINAI (2014).

- EIA STUDY ON THE NILE CROCODILE CULTURE AT TALLA CITY(CAIRO-ISMAILIA DESERT ROAD, 42K) (2013).

- EIA STUDY ON FISH AQUACULTURE AT WADI ELRAYAN, FAYOUM (2011).

- BASELINE AQUATIC & TERESTRIAL ECOLOGY AND IMPACT ASSESSMENT OF DAMIETTA POWER PLANT (2010).

- BASELINE TERESTRIAL ECOLOGY AND IMPACT ASSESSMENT OF AL-SHABAB GAS POWER PLANT (2010).

- BASELINE AQUATIC & TERESTRIAL ECOLOGY AND IMPACT ASSESSMENT OF DAMIETTA POWER PLANT (2010).

- BASELINE AQUATIC & TERESTRIAL ECOLOGY AND IMPACT ASSESSMENT OF EL-QARIMAT POWER PLANT (2010).

SCIENTIFIC BOOKS

Contributed in producing 11 reference books for the National Biodiversity Unit of EEAA, Academy of Science and Technology as well as Springer:

1. **Main Editor of a Springer Book**: Climate Changes Impacts on Aquatic Environment. Earth and Environmental Sciences Library. Springer, Cham. ISSN 2730-6674. Springer Nature Switzerland AG **2025** .https://doi.org/10.1007/978-3-031-74897-4
2. Roadmap for Sustainable Environmental Management of the Northern Egyptian Lakes; Case study: Burullus wetland, Academy of Scientific Research & Technology **(2016).**
3. A Referential Study on Environmental Impact Assessment of the New Suez Canal on Biodiversity of the Mediterranean Sea, Academy of Scientific Research & Technology **(2016).**
4. Freshwater Crayfish in Egypt, Ain Shams University**(2009)**
5. Ecotourism in Egypt , EEAA **(2008).**
6. Lake Bardawil and Zaranik Protected Area, EEAA **(2006**).
7. Lake Burullus Protected Area, EEAA (2005).
8. Lake Nasser , EEAA **(2001).**
9. Freshwater Mollusca of Egypt , EEAA **(1998).**
10. Freshwater Fish of Egypt , EEAA **(1997).**
11. Biological Diversity of Egypt , **EEAA (1996).**

AWARDS & CERTIFICATES

- **International Publishing Awards, Ain Shams University | 2020–2026**
- **Certificate of Appreciation of Ain Shams University, 2020**
- **Awarded MEDAL and Certificate of Appreciation from Ain Shams University in 2016.**
- **Awarded MEDAL from Union of Non-Gov. Env. Societies, 2006.**
- **Awarded Certificate of Merit as Environmental Patron from the Arab Towns Organization, Doha, Qatar in 2001.**
- **Awarded MEDAL and Certificate of Appreciation from Faculty of Scince , Ain Shams University in 2000.**
- **Awarded the State-Encouragement Prize in Biology (Environmental STUDIES) from Academy of Science and Technology in 1998.**

