



EHSAN ABEDI

Assistant Professor

Biological and Chemical Oceanography Group
Department of Ocean Science
Iranian National Institute for Oceanography and Atmospheric Science

LINKS

Google Scholar
Research Gate
LinkedIn
Instagram

CONTACT

ORCID:
0000-0001-7323-5765

WEBSITE:
www.inio.ac.ir

EMAIL:
e.abedi2000@gmail.com
ehsan_abedi@inio.ac.ir

MOBILE:
+989120759643

RESEARCH INTERESTS

Biological oceanography
Marine biology
Plankton study
Genetic diversity of marine organisms
Chemical impacts on marine ecosystems
Threats to marine ecosystems

EDUCATION

PhD in Marine Biology-Marine Zoology

2018 – 2022 at Tarbiat Modares University, Tehran, IRAN.
Thesis title: Mesozooplankton community structure in response to environmental factors in the Persian Gulf and Gulf of Oman

MSc in Marine and Ocean Science-Marine Biology

2008 – 2010 at Khorramshahr Marine Science and Technologies University
Thesis title: Genetic differentiation of narrow-barred Spanish mackerel (*Scomberomorus commerson*) stocks using microsatellite markers in the northern part of the Persian Gulf

WORK EXPERIENCE

Iranian National Institute for Oceanography and Atmospheric Science
Assistant professor at the Department of Ocean Science. **2010 – now**

MEMBERSHIPS

United Nations

Member of the Pool of Experts, Division for Ocean Affairs and the Law Of the Sea. 2023– now

Iranian Association of Official Experts

Official expert in the field of fisheries and aquatics. 2021– now

SKILLS

Teaching

Teaching marine biology and ecology in the bachelor's degree

Oceanographic cruises

Biological team leader in several oceanographic cruises

Diving

International certificate on CMAS one-star diver

Research software

PYTHON, PRIMER + PERMANOVA, PAST, OCEAN DATA VIEW, SPSS, ARLEQUIN, GENEPOP, POPGEN, etc.

Sampling equipment

CTD, Rosette Water Sampler, Niskin Water Sampler, Oceanographic Plankton Nets (Bongo, Neuston, Closing net + Mechanical Flow Meter), van Veen Bottom Sampler, etc.

Marine biology laboratory

Stereo Microscope, Inverted Microscope, PCR, Real-time PCR, Electrophoresis, Spectrophotometer, etc.

OCEANOGRAPHIC CRUISES

Summer 2022, Biological team leader in the Persian Gulf and Oman Sea during the PGE oceanographic cruise. 5 September-1 October 2022. R/V *Persian Gulf Explorer* (Kavoshgar Khalije Fars)

Winter 2022, Biological team leader in the Persian Gulf and Oman Sea during the PGE oceanographic cruise. 11 January-26 January 2022. R/V *Persian Gulf Explorer* (Kavoshgar Khalije Fars)

Winter 2012, Biological team leader in the northwestern part of the Persian Gulf during the PG-GOOS oceanographic cruise. December 2012. R/V *Ja Nayband*

2010 – 2017, Several cruises to sample seawater and sediment and record hydrological features in the Persian Gulf, Bushehr province, Iran

PUBLICATIONS

Tollab, M. A., Rezaie-Atagholipour, M., Ali Abedi, H., Askari Hesni, M., Abedi, E., Ahmadi, F., Van Waerebeek, K. (2023). After two decades: extremely rare records of dugongs, *Dugong dugon* (Sirenia: Dugongidae), in the Iranian Persian Gulf. *Journal of Animal Diversity*, 5(1), 0-0.

Abedi, E., Seyfabadi, J., Saleh, A., Sari, A. (2023). Mesozooplankton communities related to water masses in the Persian Gulf and the Gulf of Oman. *Marine Pollution Bulletin*, 188, 114571. <https://doi.org/10.1016/j.marpolbul.2023.114571>.

Abedi, E., Abedi, E., Seyfabadi, J., Saleh, A., Sari, A. (2022). Mesozooplankton community in near-hypoxic and hypoxic layers of the Persian Gulf and the Gulf of Oman. *Marine Pollution Bulletin*, 184, 114146. <https://doi.org/10.1016/j.marpolbul.2022.114146>.

Saleh, A., Abtahi, B., Mirzaei, N., Chen, C. T. A., Ershadifar, H., Ghaemi, M., Hamzeshpour, A., Abedi, E. (2021). Hypoxia in the Persian Gulf and the Strait of Hormuz. *Marine Pollution Bulletin*, 167, 112354. <https://doi.org/10.1016/j.marpolbul.2021.112354>.

Khaksar, F., Manavi, P. N., Ardalan, A. A., Abedi, E., Saleh, A. (2019). Concentration of polycyclic aromatic hydrocarbons in zooplanktons of Bushehr coastal waters (north of the Persian Gulf). *Marine Pollution Bulletin*, 140(January), 35–39. <https://doi.org/10.1016/j.marpolbul.2019.01.029>.

Izadi, A., Dobaradaran, S., Nabipour, I., Karbasdehi, V. N., Abedi, E., Darabi, H., Ansarizadeh, M., Ramavandi, B. (2018). Data on diversity and abundance of zooplanktons along the northern part of the Persian Gulf, Iran. *Data in Brief*, 19, 1418–1422. <https://doi.org/10.1016/j.dib.2018.06.012>.

Dobaradaran, S., Nabipour, I., Ramavandi, B., Saeedi, R., Spitz, J., Izadi, A., Abedi, E., Janahmadi, M. (2018). Trace metals in zooplankton from the northern Persian Gulf. *Marine Pollution Bulletin*, 137(October), 9–11. <https://doi.org/10.1016/j.marpolbul.2018.10.007>.

Xaaldi Kalhor, A., Movafeghi, A., Mohammadi-Nassab, A. D., Abedi, E., Bahrami, A. (2017). Potential of the green alga *Chlorella vulgaris* for biodegradation of crude oil hydrocarbons. *Marine Pollution Bulletin*, 123(1–2), 286–290. <https://doi.org/10.1016/j.marpolbul.2017.08.045>.

Izadi, A., Dobaradaran, S., Nabipour, I., Mahvi, A. H., Abedi, E., Keshtkar, M. (2017). The fluoride and chloride ion levels in the seawater along the northern part of the Persian Gulf in Bushehr province, Iran. *Fluoride*, 50(1), 127–134.

Xaaldi Kalhor, A., Mohammadi Nassab, A. D., Abedi, E., Bahrami, A., Movafeghi, A. (2016). Biodiesel production in crude oil contaminated environment using *Chlorella vulgaris*. *Bioresource Technology*, 222, 190–194. <https://doi.org/10.1016/j.biortech.2016.09.110>.

Aagh, H., Rahmanpour, S., Abedi, E., Arebi, I., Mahdinia, A. (2016). Contamination of polycyclic aromatic hydrocarbons in seawater and sediments of West-Northern coasts of the Persian Gulf. *Indian Journal of Geo-Marine Sciences*, 45(12), 1688–1695.

- Saleh, A., Molaei, S., Sheijooni Fumani, N., Abedi, E. (2016). Antifouling paint booster biocides (Irgarol 1051 and diuron) in marinas and ports of Bushehr, Persian Gulf. *Marine Pollution Bulletin*, 105(1), 367–372. <https://doi.org/10.1016/j.marpolbul.2016.02.037>.
- Abedi, E. (2016). The Zooplankton of Bardestan Creek in the Persian Gulf. *Journal of the Persian Gulf (Marine Science)*, 6(20), 21–28.
- Abedi, E., Jalili, M. (2016). Community Composition of Phytoplankton in the Bardestan Creek, Persian Gulf. *Journal of Oceanography*, 7(27), 11–18. (published in Persian with English abstract).
- Abedi, E., Gholamipoor, S., Ghaemi, M. (2016). Seasonal Determination of Nutrients Concentration in the Bardestan Creek and Loading Analysis of them on the Persian Gulf. *Journal of Oceanography*, 7(25), 33–40. (published in Persian with English abstract).
- Abedi, E., Arebi, E., Sepahvand, V., Rezai, H., Jalili, M. (2014). Zooplankton Community Composition in the Northwestern Part of the Persian Gulf during PG-GOOS Oceanographic Cruise. *Journal of the Persian Gulf (Marine Science)*. 5(18), 17–26.
- Mirza, R., Abedi, E., Mohammady, M., Faghiri, I., Fakhri, R., Azimi, A. (2014). Distribution and Sources of Polycyclic Aromatic Hydrocarbons (PAHs) in Surface Sediments from the Northern Part of the Persian Gulf (Hormuzgan Province). *Polycyclic Aromatic Compounds*, 34(4), 343–355. <https://doi.org/10.1080/10406638.2014.888672>.
- Mirza, R., Mohammadi, M., Faghiri, I., Abedi, E., Fakhri, A., Azimi, A., Zahed, M. A. (2014). Source identification of polycyclic aromatic hydrocarbons (PAHs) in sediment samples from the northern part of the Persian Gulf, Iran. *Environmental Monitoring and Assessment*, 186(11), 7387–7398. <https://doi.org/10.1007/s10661-014-3935-y>.
- Abedi, E., Saleh, A., Mehdinia, A., Rahmanpoor, S., Arebi, I., Mirza, R., Fooladi, H., Ahmadpour, F. (2014). Polycyclic Aromatic Hydrocarbons in Intertidal Surface Sediments of North Pars Special Economic Energy Zone, Bushehr. *Journal of Oceanography*, 5(17), 33–40. (published in Persian with English abstract).
- Abedi, E., Zolgharnein, H., Salari, M. A., Qasemi, A. (2012). Genetic Differentiation of Narrow-Barred Spanish Mackerel (*Scomberomorus commerson*) Stocks Using Microsatellite Markers in Persian Gulf. *American-Eurasian Journal of Agricultural & Environmental Sciences*. 12(10), 1305–1310.
- Mirza, R., Faghiri, I., Abedi, E. (2012). Contamination of Polycyclic Aromatic Hydrocarbons in Surface Sediments of Khure-Musa Estuarine, Persian Gulf. *World Journal of Fish and Marine Sciences*. 4(2), 136–141.
- Abedi, E., Mohammadi, M., Qasemi, A., Mirza, R. (2011). Stock structure of Indo-Pacific King Mackerel (*Scomberomorus guttatus*) in the Persian Gulf using Microsatellite Loci. *World Journal of Fish and Marine Sciences*. 3(4), 351–356.
- Mirza, R., Mohammadi, M., Dadollahi Sohrab, A., Abedi, E., Fakhri, A. (2011). Polycyclic aromatic hydrocarbons (PAHs) in seawater intertidal areas of Boushehr Province (Persian Gulf). *Journal of Oceanography*, 2(7), pp.21-29.
- Abedi, E., Zolgharnein, H., Salari, A. M. A., Mohamadi, M., Qasemi, A., Archangi, B., Mirza, R. (2011). Study of genetic diversity of *Scomberomorus commerson* using Microsatellite Markers in the Persian Gulf. *Journal of Marine Science and Technology*, 9 (4), 83-91. (published in Persian with English abstract).
- Abedi, E., Mohammadi, M., Qasemi, A. (2011). Genetic Stock Structure of *Scomberomorus guttatus* Using Microsatellite Markers in the Persian Gulf. *Journal of Oceanography*, 2(6), 15–21. (published in Persian with English abstract).

CONFERENCE PRESENTATIONS

2017, Abedi, E. Zooplankton of the input channel of Dayyer shrimp farms (Persian Gulf). International Conference on the New Horizons in the Agricultural Sciences, Natural Resources and Environment. March 2017, Tehran, Iran.

2017, Abedi, E. The community composition of copepods in the coastal waters of Bandar Dayyer (Persian Gulf). International conference on sustains development, strategies and challenges with a focus on Agriculture, Natural Resources, Environment and Tourism. 7-9 March 2017, Tabriz, Iran.

2017, Abedi, E. The necessity of investigating the physicochemical factors of the Persian Gulf in Bushehr province in order to locate the Asian seabass (*Lates calcarifer*) breeding farm in cages. International Conference on the New Horizons in the Agricultural Sciences, Natural Resources and Environment. March 2017, Tehran, Iran.

2017, Abedi, E. Investigation of the most important threats to the marine environment of the Persian Gulf in Bushehr province. The First International Conference of Agricultural Sciences, livestock, natural resources environment rural tourism and medicinal plants Muslim countries. December 2017, Mashhad, Iran.

2017, Abedi, E. The necessity of observing the principles of sustainable development and paying attention to management based on marine ecosystems in Bushehr province. International conference on sustains development, strategies and challenges with a focus on Agriculture, Natural Resources, Environment and Tourism. 7-9 March 2017, Tabriz, Iran.

2017, Abedi, E. investigation of the essential factors threatening the coral reefs of the Khark and Kharko islands. The First International Conference of Agricultural Sciences, livestock, natural resources environment rural tourism and medicinal plants Muslim countries. December 2017, Mashhad, Iran.

2011, Salari, M. A. and Abedi, E. Population genetic structure of *Scomberomorus commerson* using microsatellite markers in the Persian Gulf. International Symposium on Marine Ecosystems, Natural Products and Their Bioactive Metabolites 25-27 October 2011, Bogor, Indonesia.

2010, Abedi, E., Zolgharnein, H., Salari, M. A., Mohammadi, M., Qasemi, S. A., Archangi, B. and Mirza, R. Genetic stock structure of *Scomberomorus commerson* in the Persian Gulf using microsatellite markers. The 16th National and 4th International Conference of Biology. September 14-16. Ferdowsi University of Mashhad, I. R. Iran.

2010, Salari, M. A. and Abedi, E. Compare of population genetic structure *Rachycentron canadum* with *Scomberomorus commerson* using microsatellite marker in the Persian Gulf. The 16th National and 4th International Conference of Biology. September 14-16. Ferdowsi University of Mashhad, I. R. Iran.

2009, Fakhri, A., Taghavi Motlagh, A., Kochinian, p., Safahiyeh, A., Kamalifar, R. and Abedi, E. Estimation of population parameters of King fish (*Scomberomorus commerson*) in the coastal water of Boushehr province, Persian Gulf. 8th Conference of Marine Science and Technology. Khorramshahr University of Marine Science & Technologies, I. R. Iran.

RESEARCH PROJECTS

Project Manager, 2022

Project Title: Evaluation studies of the development effects of Pars Special Economic Energy Zone (PSEEZ) on the coastal-marine habitats of the region, Project number: 00-10-052

Project Manager, 2021

Project Title: zooplankton and neuston community structure in the Persian Gulf and the Gulf of Oman

Project number: 101/72383

Project Manager, 2016

Project Title: Compare and ecological study of plankton community composition in the Mond estuary and its offshore waters in the Persian Gulf

Project number: 395-011-01-032-05

Project Manager, 2013

Project Title: Coastal Monitoring of the Persian Gulf (North Pars Special Economic Energy Zone)

Project number: 392-011-01

Project Manager, 2013

Project Title: Community composition of phytoplankton and zooplankton in Bardestan creek (Persian Gulf, Dayyer)

Project number: 392-011-04

Project Contributor, 2012

Project Title: Persian Gulf and Gulf of Oman Oceanographic study (PG-GOOS)

Project number: 391-021-02

Project Manager, 2011

Project Title: Stock Structure of Indo-Pacific King Mackerel (*Scomberomorus guttatus*) in the Persian Gulf Using Microsatellite Loci

Project number: 1098

Project Contributor, 2011

Project Title: Marine environmental monitoring and data processing of Persian Gulf

Project number: 390-021-02

WORKSHOPS AND SHORT COURSES

2023, Workshop on Python, Iranian National Institute for Oceanography and Atmospheric Science

2017, Workshop on Antarctic Research by Gateway Antarctica, University of Canterbury, New Zealand and Iranian National Institute for Oceanography and Atmospheric Science

2017, Workshop on The Role of Antarctica in the Global Climate Change (Past, Present and Future) by Gateway Antarctica, University of Canterbury, New Zealand and Iranian National Institute for Oceanography and Atmospheric Science

2017, Workshop on Regional Ocean Management by Iranian National Institute for Oceanography and Atmospheric Science

2017, Workshop on Special Sea Areas by Iranian National Institute for Oceanography and Atmospheric Science

2017, Workshop on Marine Pollution and Ways to Control Pollution by Iranian National Institute for Oceanography and Atmospheric Science

2012, Workshop on How a Trip Oceanic and Sampling Methods by Iranian National Institute for Oceanography and Atmospheric Science

2011, Workshop on Natural Monitoring Using Remote Sensing by Persian Gulf University

2010, Workshop on Persian Gulf Coral Reefs: Their Roles in Environmental Health and Climate Reconstruction by Iranian National Institute for Oceanography

2009, Workshop on PCR, Real-time PCR, RFLP, RAPD by Khoramshahr Marine Science and Technologies University

2009, Workshop on Ichthyology and Systematic of Persian Gulf Fishes by Khoramshahr Marine Science and Technologies University

2009, Workshop on RED TIDE by Khoramshahr Marine Science and Technologies University)

2008, National Conference on Bioinformatics by Shiraz University

LANGUAGE SKILLS

Farsi (Persian): Native

English: Fluent (speaking, writing, and comprehension)

EXTRACURRICULAR ACTIVITIES AND VOLUNTARY AFFAIRS

Voluntary charity affairs to protect the Persian Gulf

Initiation of the Clean Beach Thursday's project to save the Persian Gulf from marine litter

Initiation and administration of the @oceanairan page on Instagram to publicize marine and oceanic sciences and attract public participation