

CURRICULUM VITAE

Dr. Hanieh Saeedi
PhD in Marine Science



PROFESSIONAL DETAILS

Biodiversity Information Coordinator Senckenberg Research Institute and Natural History Museum

Data Manager Ocean Biogeographic Information System (OBIS), Deep Sea Node, UNESCO

Chair of Data Quality Control Task Team OBIS



Department of Marine Zoology, Crustaceans, Senckenberganlage 25, Frankfurt am Main, Germany



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RESEARCH INTERESTS

- Biodiversity informatics
- Database managing
- Biogeography
- Species distribution modelling
- Taxonomy
- Macroecology

EDUCATION

- 2011 - 2015 PhD in Marine Science, University of Auckland, New Zealand
Thesis: Global taxonomy, biogeography, and future distributions of marine bivalves
Supervised by Prof. Mark J Costello
- 2006 - 2008 MSc in Marine Biology, Shahid Beheshti University, G.C, Iran **1st rank student**
Thesis: Biology of growth and reproduction in razor clams
- 2001 - 2005 BSc in Marine Biology, Marine Science and Technology Islamic Azad University, Iran

Publications	Services	Supervisions	Awards & Grants	Presentations
Peer-reviewed: 41	J. Review: 07	Postdoc: 01	Awards: 20	Oral: >50
As first author: 34	Expedition: 08	PhD: 03	Grants: 07	Poster: 15
Non-reviewed: 06	Membership: 16	MSc: 03	Amount: 626.157 €	
Under review: 02	Organiser: 07	BSc: 08		
In preparation: 03	Outreach: 10			

RESEARCH & JOB EXPERIENCE

- 2017 - Present Senior Postdoctoral Researcher in Deep-Sea Biogeography
Goethe University Frankfurt; Senckenberg Research Institute
Role: project manager, biodiversity informatics, biogeography, ecological modeling, big-data managing and processing, digitising and mobilising marine taxa
- 2017 - Present Ocean Biogeographic Information System (OBIS) Data Manager
UNESCO, thematic node in Senckenberg Museum
Role: managing deep-sea data, biodiversity standards, data quality control
- 2015 - 2017 Postdoctoral Fellow in Deep-Sea Biodiversity and Ecology
Department of Oceanography, Federal University of Espirito Santo, Brazil
Role: research design, data collection, field work, ecological studies, taxonomy, molecular experiments, statistical analysis
- 2011 - 2015 Research Assistant
Institute of Marine Science, University of Auckland, New Zealand
Role: research design, data collection, field work, taxonomy, molecular experiments, statistical analysis, species distribution modelling
- 2009 - 2011 Research Advisor and Environmental Consultant
Shill Amayesh Environmental Impact Assessment Consultant Company, Iran
Role: field work, environmental assessment, management and restoration of habitats
- 2007 – 2011 Senior Researcher and Project Manager
Faculty of Biological Sciences, Shahid Beheshti University, Iran
Role: research design, field and lab work, data analysis

INSTITUTIONAL RESPONSIBILITIES

- 2020 Founder: Open-Source Data and Knowledge Gaps, ECR NoN Future Earth, Future Earth Working Group
- 2019 – Present Fellow Researcher: IPBES Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services
- 2018 – Present Chair of Data Quality Control Task Team: Ocean Biogeographic Information System (OBIS), UNESCO, Belgium
- 2017 – Present Steering and Advisory Board Member: Ocean Biogeographic Information System (OBIS), UNESCO, Belgium

PUBLICATIONS (PEER-REVIEWED)

- Saeedi, H.**, Simoes, M., Brandt, A. (2020). Biodiversity and distribution patterns of deep-sea fauna along the temperate NW Pacific. *Progress in Oceanography*, 183: 102296.
<https://doi.org/10.1016/j.pocean.2020.102296>.
- Howell, K.L., Davies, J.S., Allcock, A.L., Braga-Henriques, A., Buhl-Mortensen, P., Carreiro-Silva, M., Dominguez-Carrió, C., Durden, J.M., Foster, N.L., Game, C.A., Hitchin, B., Horton, T., Hosking, B., Jones, D.O.B., Mah, C., Marchais, C.L., Menot, L., Morato, T., Pearman, T.R.R., Piechaud, N., Ross, R.E., Ruhl, H.A., **Saeedi, H.**, Stefanoudis, P.V., Taranto, G.H., Thompson, M.B., Taylor, J.R., Tyler, P., Vad, J., Victorero, L., Vieira, R.P., Woodall, L.C., Xavier, J.R. & Wagner, D. (2019). A framework for the development of a global standardised marine taxon reference image database (SMarTaR-ID) to support image-based analyses. *PLOS ONE* 14, e0218904. <https://doi.org/10.1371/journal.pone.0218904>.
- Saeedi, H.**, Simoes, M., Brandt, A. (2019). Endemicity and community composition of marine species along the NW Pacific and the adjacent Arctic Ocean. *Progress in Oceanography*. *Progress in Oceanography*, 178: 102199. <https://doi.org/10.1016/j.pocean.2019.102199>.
- Klein, E., Appeltans, W., Provoost, P., **Saeedi, H.**, Benson, A., Bajona, L., Peralta, A. C., & Bristol, R. S. (2019). OBIS Infrastructure, Lessons Learned, and Vision for the Future. *Frontiers in Marine Science*, 6: 588. <https://doi.org/10.3389/fmars.2019.00588>.
- Canonico, G., P.L. Buttigieg, E. Montes, F.E. Muller-Karger, C. Stepien, D. Wright, A. Benson, B. Helmuth, M. Costello, I. Sousa-Pinto, **Saeedi, H.**, J. Newton, W. Appeltans, N. Bednaršek, L. Bedrossy, B.D. Best, A. Brandt, K.D. Goodwin, K. Iken, A.C. Marques, P. Miloslavich, M. Ostrowski, W. Turner, E.P. Achterberg, T. Barry, O. Defeo, G. Bigatti, L.-A. Henry, B. Ramiro-Sánchez, P. Durán, T. Morato, J.M. Roberts, A. García-Alegre, M.S. Cuadrado, and B. Murton. (2019). Global Observational Needs and Resources for Marine Biodiversity. *Frontiers in Marine Science*, 6: 367. <https://doi.org/10.1371/journal.pone.0218904>.
- Saeedi, H.**, Costello, M. J., Warren, D., Brandt, A. (2019). Latitudinal and bathymetrical species richness patterns in the NW Pacific and adjacent Arctic Ocean. *Scientific Reports*, 9:9303.
<https://doi.org/10.1038/s41598-019-45813-9>.
- Saeedi, H.**, Reimer, D. J., Brandt, J. M., Dumais, P. O., Jażdżewska, M. A., Jeffery, W. N., Thielen, M. P. (2019). Global marine biodiversity and prediction in the context of achieving the Aichi Targets: ways forward and addressing data gaps. *Peerj*, 7: e7221.
<https://doi.org/10.7717/peerj.7221>.
- Saeedi, H.**, Bernardino A. F., Shimabukuro M., Falchetto G., & Sumida P. Y. G (2019). Macrofaunal community structure and biodiversity patterns based on a wood-fall experiment in the deep South-west Atlantic. *Deep Sea Research Part I: Oceanographic Research Papers*, 145:73-82.
- Saeedi, H.** & Costello M. J. (2019). A world dataset on the geographic distributions of Solenidae razor clams (Mollusca: Bivalvia). *Biodiversity Data Journal*, 7:e31375.
<https://doi.org/10.3897/BDJ.7.e31375>.

- Saeedi, H.**, Kamrani, E., Shayesteh, F., Nordhaus, I., Diele, K., Raeisi, H. (2018). Sediment Temperature Impact on Population Structure and Dynamics of the Crab *Austruca iranica* Pretzmann, 1971 (Crustacea: Ocypodidae) in Subtropical Mangroves of the Persian Gulf. *Wetlands*, 38(3): 539–549.
- Barroso, R., Kudenov, J.D., Halanych, K.M., **Saeedi, H.**, Sumida, P.Y.G. & Bernardino, A.F. (2018). A new species of *xylophilic fireworm* (Annelida: Amphinomidae: Cryptonome) from deep-sea wood falls in the SW Atlantic. *Deep Sea Research Part I: Oceanographic Research Papers*, 137: 66-75.
- Brandt, A., Scholz, J., Allspach, A.,, **Saeedi, H.**, ..., Veit-Koehler, G. (2017). 200 years of marine research at Senckenberg: selected highlights. *Marine Biodiversity*, 48(1): 159–178.
- Saeedi, H.**, Costello, M. J. and Dennis, T. (2017). Modelling present and future global distributions of razor clams (Bivalvia: Solenidae). *Helgoland Marine Research*, 70: 23.
- Chaudhary, C., **Saeedi, H.**, & Costello, M. J. (2017). Marine species richness is bimodal with latitude. *Trends in Ecology and Evolution*. 32(4): P234-237.
- Saeedi, H.**, Costello, M. J. and Dennis, T. (2016). Bimodal latitudinal species richness and high endemism in razor clams (Mollusca: Bivalvia). *Journal of Biogeography*. 44(3): 592–604.
- Chaudhary, C., **Saeedi, H.**, & Costello, M. J. (2016). Bimodality of latitudinal gradients in marine species richness. *Trends in Ecology and Evolution*, 3(9): 670-676.
- Saeedi, H.**, Costello, M. J. and Cosel, R. v. (2013). First report of anterior pallial tentacles in *Solen dactylus* (Bivalvia: Solenidae) from the northern Persian Gulf, Iran. *PlosOne*. 8(5): E63487.
- Saeedi, H.** (2013). Availability of Venerid Clam, *Amiantis umbonella* as potential metal bioindicator in Bandar Abbas coast, Persian Gulf. *Egyptian Journal of Aquatic Research*, 38(93): 103.
- Saeedi, H.**, Kamrani, H. and Matsuoka K. (2012). Catastrophic impact of red tides formed by an unarmored dinoflagellate *Cochlodinium polykrikoides* (Dinophyceae) on the razor clam *Solen dactylus* (Solenidae) on Golshahr coast of Bandar Abbas, Persian Gulf. *Journal of the Persian Gulf (Marine Science)*, 2(6): 13-20.
- Saeedi, H.**, Ardalan, A. A., H. Kiabi, B. and Zibaseresht, R. (2012). Metal concentrations in razor clam *Solen dactylus* (Von Cosel, 1989) (Bivalvia: Solenidae), sediments and water in Golshahr coast of Bandar Abbas, Persian Gulf. *Iranian Journal of Fisheries Science*, 11(1): 165-183.
- Fallahi, R., **Saeedi, H.** and Izadian, M. (2010). Study the optimum bed to keep *Chironomus* sp. and *Gammarus fasciatus* in vitro. *Journal of Animal Environment (Shil Amayesh)*, 2(2): 79-84.
- Raad, S. P., **Saeedi, H.**, Abtahi, B. and Kiabi, B. H. (2010). Accumulation of some heavy metals in soft tissue and shell of edible clam *Amiantis umbonella* (Lamarck, 1818) in Bandar Abbas coast, the Persian Gulf. *Journal of Animal Environment (Shil Amayesh)*, 2(2): 9-22.
- Saeedi, H.** and Ardalan, A. A. (2010). Nutritional value of jack knife clam *Solen dactylus* in the ripeness and sexual rest stages. *Iranian Scientific Fisheries Journal*, 19(2): 51-58.

- Saeedi, H.**, Raad, S. P., Ardalan, A. A., Kamrani, E. and Kiabi, B. H. (2010). Report of investigation of diversity and abundance of phytoplankton in coastal waters of Bandar Abbas before and after the Gonu cyclone in 2007. *Journal of Marine Science and Techniques*, 9(1): 33-37.
- Saeedi, H.** and Ardalan, A. A. (2010). Incidence and biology of *Arcotheres tivelae* (Gordon, 1936) (Crustacea: Decapoda) in *Amiantis umbonella* (Lamarck, 1818) (Bivalvia: Veneridae) on northern coast of the Persian Gulf, Iran. *Journal of the Marine Biological Association of the United Kingdom*, 90(4): 655-661.
- Saeedi, H.**, Ardalan, A. A., Kamrani, E. and Kiabi, B. H. (2010). Reproduction, growth and production in *Amiantis umbonella* (Lamarck, 1818) (Bivalvia: Veneridae) in the northern coast of the Persian Gulf, Bandar Abbas, Iran. *Journal of the Marine Biological Association of the United Kingdom*, 90(4): 711-718.
- Saeedi, H.** and Ardalan, A. A. (2010). Study of feeding mechanism in *Solen dactylus* on Golshahr coast of Bandar Abbas (Persian Gulf). *Iranian Scientific Fisheries Journal*, 18(4): 79-88.
- Saeedi, H.** and Ardalan, A. A. (2009). Study on identification and abundance of phytoplankton in coastal waters of Golshahr coast, Bandar Abbas (Persian Gulf). *Shil Amayesh Journal of Biological Sciences*, 1(1): 17-24.
- Saeedi, H.**, Raad, S. P., Ardalan, A. A., Kamrani, E., Jokar, K. K. and Kamali, E. (2009). Study of biological characteristics of jack knife clam *Solen dactylus* (Von Cosel, 1989) in Bandar Abbas coast. *Iranian Scientific Fisheries Journal*, 18(2): 67-80.
- Saeedi, H.**, Raad, S. P., Ardalan, A. A., Kamrani, E. and Kiabi, B. H. (2009). Growth and reproduction of *Solen dactylus* (Von Cosel, 1989) (Bivalvia: Solenidae) on northern coast of the Persian Gulf (Iran). *Journal of the Marine Biological Association of the United Kingdom*, 89(8): 1635-1642.
- Saeedi, H.**, Raad, S. P., Ardalan, A. A., Kamrani, E. and Kiabi, B. H. (2007). Morphometry of *Solen dactylus* (Von Cosel, 1989) (Bivalvia: Solenidae) in the coastal waters of Bandar Abbas, Persian Gulf. *Journal of Marine Science and Technology Research*, 2(6): 38-50.

BOOK AND CHAPTER PUBLICATIONS

- Saeedi, H.** & Brandt, A. (2020). *Biogeographic Atlas of the Deep NW Pacific Fauna*. Advanced Book. Pensoft Publishers. <https://doi.org/10.3897/ab.e51315>
- Saeedi, H.** & Brandt, A. (2020). Introduction. In: Saeedi, H. and Brandt, A. (Ed), *Biogeographic Atlas of the Deep NW Pacific Fauna*. Advanced Book. Pensoft Publishers. Chapter 1. <https://doi.org/10.3897/ab.e51315>
- Saeedi, H.** & Brandt, A. (2020). Biodiversity and Biogeography of Ostracoda (Crustacea) from the deep Northwest Pacific. In: Saeedi, H. and Brandt, A. (Ed), *Biogeographic Atlas of the Deep NW Pacific Fauna*. Advanced Book. Pensoft Publishers. Chapter 16. <https://doi.org/10.3897/ab.e51315>
- Saeedi, H.** & Brandt, A. (2020). Review of deep-sea Cnidaria and Ctenophora fauna in the northwestern Pacific Ocean. In: Saeedi, H. and Brandt, A. (Ed), *Biogeographic Atlas of the*

Deep NW Pacific Fauna. Advanced Book. Pensoft Publishers. Chapter 3.
<https://doi.org/10.3897/ab.e51315>

Saeedi, H. & Costello M. J. (2019). The Biology, Ecology, and Societal Importance of Razor Clams. Reference Module in Earth Systems and Environmental Sciences, (Elsevier).

Saeedi, H. & Costello, M.J. (2013). Aspects of global distribution of six marine bivalve mollusc families. In: F. da Costa (Ed), Clam Fisheries and Aquaculture. Nova Science Publishers Inc., New York. Chapter 2. pp. 27-44.

Yousefi, S., **Saeedi, H.**, Behfar, M., Fallahi, R., & Izadi, M. (2013). Atlas of Amphibians of Iran. Department of Environment of Iran Publisher Inc.

COMMENTARY PUBLICATIONS

Amon, Diva, ..., **Saeedi, H.**, et al. (2019). Draft Regulations on Exploitation of Mineral Resources in the Area. issued 25 March 2019 by the ISA (ISBA/25/C/WP.1).

OPEN-ACCESS DATASET PUBLICATIONS

Saeedi, H. & Brandt, A. (2020): NW Pacific Deep-sea Benthos Biodiversity (Beneficial Project). v1.2. Deep-sea OBIS node. Sampling event dataset <https://doi.org/10.15468/psxp28>

Saeedi, H., Winterberg H., Alalykina L.I., Bergmeier S.F., Downey R., Golovan O., Jazdzewska A, kamenev G, kameneva N., Maiorova A., Malyutina M., Minin K., Mordukhovich V., Petrunina A., Schwabe E., Brandt A. (2018). NW pacific deep-sea benthos distribution and abundance (Beneficial Project). Sampling event dataset <https://doi.org/10.15468/zkex9m>

Saeedi, H. (2019). Global Distribution and Diversity of Solenidae Species. Version 1.4. Deep-sea OBIS node. Occurrence dataset <https://doi.org/10.15468/ajlzjq>

PUBLICATIONS (Non PEER-REVIEWED)

Saeedi, H., Brandt, & A. Donecker, A. (2020). Tiefsee in der Übersicht. Senckenberg Press Release. <https://www.senckenberg.de/en/pressemeldungen/tiefsee-in-der-uebersicht/>

Saeedi, H., Simões, M., & Brandt, A. (2018). Deep-sea fauna in the NW Pacific: biodiversity patterns and future invasions into the Arctic Ocean (Beneficial Project). Deep-Sea Life, 12.

Saeedi, H. & Brandt, A. (2018). The first big dataset from the deep-sea NW Pacific is now available worldwide. Deep-Sea Life, 11.

Saeedi, H. & Brandt, A. (2018). Biogeography of the NW Pacific deep-sea fauna and their possible future invasions to the Arctic Ocean (Beneficial Project). Deep-Sea Life, 10.

Howell, K.L., Davies, J.S., Allcock, A.L., Braga-Henriques, A., Buhl-Mortensen, P., Carreiro-Silva, M., Dominguez-Carrió, C., Durden, J.M., Foster, N.L., Game, C.A., Hitchin, B., Horton, T., Hosking, B., Jones, D.O.B., Mah, C., Marchais, C.L., Menot, L., Morato, T., Pearman, T.R.R., Piechaud, N., Ross, R.E., Ruhl, H.A., **Saeedi, H.**, Stefanoudis, P.V., Taranto, G.H., Thompson, M.B., Taylor, J.R., Tyler, P., Vad, J., Victorero, L., Vieira, R.P., Woodall, L.C.,

Xavier, J.R. & Wagner, D. (2019). A framework for the development of a global standardised marine taxon reference image database (SMarTaR-ID) to support image-based analyses. bioRxiv: 670786.

Saeedi H., Costello MJ, Dennis T. (2015). Global biodiversity and biogeography of razor clams (Solenidae: Bivalvia). ScienceOpen Posters doi: 10.14293/P2199-8442.1.SOP-LIFE.PWQDWI.v1

<https://www.scienceopen.com/m/document/256c4567-6185-453c-a797-0d7a44e42620>

PUBLICATIONS (UNDER REVIEWE)

Simões, V. P. M., **Saeedi, H.**, Cobos, M., Brandt, A. Estimating the future shift patterns of shallow-water and deep-sea Crustacea. Global Change Biology.

Saeedi, H., Costello, M. J. and Cosel, R. V. (under review). Taxonomic significance of anatomical characters in razor clams (Bivalvia: Solenidae). PlosOne.

Di Franco, D., Linse, K., Griffiths, H., Ashford, O., **Saeedi, H.**, Brand, A. (2019). Community composition of peracarid crustaceans along the Weddell Sea. Frontiers of Marine Science.

PUBLICATIONS (TO BE SUBMITTED)

Saeedi, H., Garciajunco, R., González-Tizón, A., Martínez, A. M., Lavery, S., and Costello, M. J. (to be submitted). Global phylogeny of razor clams (Bivalvia: Solenidae).

Saeedi, H. and Cosel, R. V. (to be submitted). A new *Solen* (Bivalvia, Solenidae) from the South West Atlantic coast of Brazil.