

Curriculum Vitae

Personal Data:

Surname, first name: Farjami, Hossein
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Date of birth: 23.09.1980
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Place of Work:

Iranian National Institute for Oceanography and Atmospheric Science (INIOAS), Tehran, Iran

Education:

2012-2016 Russian State Hydrometeorological University (RSHU), Satellite Oceanography Laboratory – Saint Petersburg, Russia
Ph.D. in Physic. & Mathematical Sciences – Satellite Oceanography

2004-2006 Tarbiat Modares University– Tehran, Iran
M.Sc. in Physical Oceanography

2000-2004 Azarbaijan Shahid Madani University- Tabriz, Iran
B.Sc. in Applied Physics

Short-term training programs:

2021 Use of Space Technology for Weather and Climate Studies, Ahmedabad, India, May, 2021.

Research interests:

Wind Waves and Air-Sea Interaction, Remote Sensing, Numerical Modeling

Work experience:

From 2021 till present -Head of National Center for Antarctic Research (NCAR), Iranian National Institute for Oceanography and Atmospheric Science, IRAN.

From 2017 till present -Faculty Member, Atmospheric Science Research Center, Iranian National Institute for Oceanography and Atmospheric Science, IRAN.

From 2012 till 2014-Junior Researcher of Satellite Oceanography Laboratory at Russian State Hydrometeorological University in St. Petersburg, Russia.

From 2006 till 2011- Researcher of Iranian Meteorological Organization, IRAN

Teaching experience:

From 2006 till 2009- Payame Noor University.
2010- University of Applied Science and Technology.
2017- Islamic Azad University
2019- Tarbiat Modares University

Projects:

Antarctic polar lows and their role in the ocean-ice-atmosphere system. Iran National Science Foundation (INSF) and Russian Foundation for Basic Research (RFBR), 2021-2023. (PI).

Detection of Internal Waves in the Southern Part of the Caspian Sea. Iranian National Institute for Oceanography and Atmospheric Sciences (INIOAS), 2021-2023. (PI)

Investigation of Wind-driven Waves Pattern in the Caspian Sea, Iranian National Institute for Oceanography and Atmospheric Sciences (INIOAS), 2020, (PI).

Evaluation and Modification of Scatterometer Satellites wind and ERA5 reanalysis wind Data over the Iranian Adjacent Seas for Using in Numerical Models - Iran National Science Foundation (INSF), 2020. (PI).

Environmental studies of the cage fishery plan and monitoring of a farm sample in the Caspian Sea, INIOAS, 2018-2019. (CO-I).

Integrated management of Gorgan Bay basin in the Caspian Sea, Governor of Golestan, IRAN. INIOAS, 2021 (CO-I).

The sea state on altimeter measurements in coastal regions, Satellite Oceanography Laboratory at Russian State Hydrometeorological, 2015 (PI).

Investigation of Physical Parameters (Salinity, Temperature and Density) of Uremia Lake and its Temporal Changes Based on Fluctuation Pattern of Climate Parameters Using Remote Sensing and GIS, Azad University, 2012 (CO-I).

Papers:

Farjami, H., & Kazemi, A. F. (2024). Spatiotemporal patterns of polar low activity over the Southern Ocean. *Journal of Geophysical Research: Atmospheres*, 129(4), e2023JD039832.

Farjami, H., Azizpour, J., & Andi, S. (2024). Manifestation of internal waves in the Southern Caspian Sea using satellite imagery. *Regional Studies in Marine Science*, 69, 103294.

Farjami, H., Rashidi Ebrahim Hesari, A., & Andi, S. (2023). Internal Waves in the Strait of Hormuz using Sentinel-1 radar images. *International Journal Of Coastal, Offshore And Environmental Engineering (ijcoe)*.

Farjami, H., & Esmaeili, M. (2023). Antarctic Wind Field anomalies and polar lows. *Journal of Oceanography*, 13(52), 64-75.

Esmaeili, M., Rashidi Ebrahim Hesari, A., & **Farjami, H.** (2021). Investigation of the dissipation characteristics of upright wave absorbing seawall. *Iranian journal of Marine technology*, 8(4), 30-39.

Sajad Andi, Akbar Rashidi Ebrahim Hesari & **Hossein Farjami** (2021) Detection of internal waves in the Persian Gulf, *Remote Sensing Letters*, 12:2, 190-198, DOI: 10.1080/2150704X.2020.1847349.

Farjami, H., & Rashidi Ebrahim Hesari, A. (2021). Wind-driven Waves Pattern in the Caspian Sea. *Hydrophysics*, 6(2), 1-11.

Azizpour, J., **Farjami, H.,** & Ghaffari, P. (2021). Intrathermocline eddies in the Strait of Hormuz. *Arabian Journal of Geosciences*, 14, 1-9.

Sajad Andi, Akbar Rashidi Ebrahim Hesari & **Hossein Farjami** (2020). Detection of internal waves in the Persian Gulf, *Remote Sensing Letters*, DOI: 10.1080/2150704X.2020.1847349

Farjami, H., & Hesari, A. R. E. (2020). Assessment of sea surface wind field pattern over the Caspian Sea using EOF analysis. *Regional Studies in Marine Science*, 101254.

Yari, S., Hosseini, S. T., & **Farjami, H.** (2020). Field Measurements of Velocity and Physical Parameters of Seawater and Numerical Modeling of Brine Discharge from the Desalination Plant in the Southeastern Coast of Kish Island-Iran. *Journal of Oceanography*, 11(41), 11-24.

Rashidi Ebrahim Hesari, A., Bazregar, N. & **Farjami, H.** (2020). Numerical Simulation of Phosphate's Diffusion released by Fish Culture Cages Located in the Sisangan Marine Basin in the Southern Caspian Sea. *Fisheries Science and Technology*, 9(1).

Farjami, H., & Hesari, A. R. E. (2020). Wind-driven Waves Pattern in the Caspian Sea. *Hydrophysics*.

Farjami, H. (2019). Evaluation of a Semi-Empirical Model for Simulation of Energy of Ocean Waves Induced by Tropical Cyclones in the Indian Ocean Surveying Energy of Ocean Waves Induced by Tropical Cyclones in the Indian Ocean. *Hydrophysics*, 4(2), 37-46.

Akbar Rashidi Ebrahim Hesari, Sajad Andi, **Hossein Farjami** (2017). Study of Internal Waves in the Persian Gulf Using Field Data and Satellite Images. *IJCOE Vol.1/No. 1/Spring 2017* (31-46).

Farjami, H., Golubkin, P., & Chapron, B. (2016). Surveying sea surface effect in satellite altimeter-derived wind speed. *International Journal Of Coastal & Offshore Engineering, IJCOE No. 2/Spring 2016* (17-22).

Farjami, H., Golubkin, P., & Chapron, B. (2016). Impact of the sea state on altimeter measurements in coastal regions. *Remote Sensing Letters*, 7(10), 935-944.

Фарджамии, Х., Голубкин, П. А., & Кудрявцев, В. Н. (2016). Развитие ветровых волн в прибрежных зонах при переменных ветрах на примере персидского залива и аравийского моря. *Ученые записки Российского государственного гидрометеорологического университета*, (44), 121-128.

Фарджамии, Х., & Бертран, Ш. (2015). Climatology of swell and wind-sea in the North of Indian Ocean by using satellite altimetry data. *Общество. Среда. Развитие (Terra Humana)*, (4 (37)).

Фарджамии, Х., & Шапрон, Б. (2015). Особенности поля ветра в северной части Индийского океана на основе анализа данных NCEP/NCAR за период 2010-2014 гг. *Учен. зап. РГГМУ*, (39), 142.

Farjami H., Hosseini S. T., Chegini V., Mohammadi S. Simulating Wind Driven Waves by SWAN Numerical Wave Model in Bushehr Bay. *jos. 2012; 2 (8) :79-87.*

Farjami H., Mohammad Taghi Zamanian, Akbar Rashidi Ebrahim Hesari, Seied Ali Azarmsa, (2012). Numerical Simulation of Ekman Theory in Five Layers Oceanic Basin, *Journal of Marine Science and Technology*, 11(1), 41.

Seyed Taleb Hosseini, **Hossein Farjami**, Seyed Mehdi Mahmodi, (2012). Application of COHERENS in modeling pollution dispersion in a shallow tide-effected bay (Bushehr Bay), *Journal of the Earth and Space Physics*, 37(3), 173.

Papers in Conferences:

Farjami H. (2024). Artificial Intelligence in the Marine and Atmospheric Sciences: A Review of Applications and Challenges. 13th International Conference on Agricultural Science, Environment, Urban and Rural Development. Hungary.

Farjami H. (2023). Investigation of internal waves generated by the sefidrud plumes in the southern caspian sea. International Conference on Coasts, Ports and Marine Structures (ICOPMAS 2022). Tehran, IRAN.

Farjami H. (2020). Sea Surface Wind over the Adjacent Seas of Iran. *RCOWA 2020*, Tehran, IRAN.

Farjami H., Ghafarian P., Pegahfar N., (2018). Evaluation of era5 reanalysis surface wind and wind-waves datasets using satellite measurements in the Caspian Sea. 13th International Conference on Coasts, Ports and Marine Structures, Tehran, Iran.

Farjami H., Alavi Ghavanini F., (2018). Validation of WAVEWATCH III model in the Caspian Sea using Sentinel-3 Measurements. International Conference on Advanced Remote Sensing, Wuhan, China.

Rashidi A., Andi S., **Farjami H., (2018).** Study of Internal Waves in the Eastern Part of the Persian Gulf Using Observational Data, Landsat and SAR Imagery. International Conference on Advanced Remote Sensing, Wuhan, China.

Farjami, H., Kudrayvtsev, V., & Chapron, B., (2015). Investigation of wind waves energy in the north of Indian ocean by using satellite altimetry data. 8th Scientific Conference of Iranian Students in the Russian Federation, 25-26 April 2015, St. Petersburg, Russia. (Best Paper Award)

Farjami, H., Kudrayvtsev, V., & Chapron, B., (2014). Surveying sea surface dynamic of Indian ocean with using of satellite altimetry data. 7th Scientific Conference of Iranian Students in the Russian Federation, April 2014-Moscow, Russia. (Best Paper Award)

Farjami, H., Kudrayvtsev, V., & Chapron, B., (2015). Assessment energy of wind-driven waves in the Arabian sea by satellite altimetry. Doctoral School of Energy and Geotechnology II, 12-17 January 2015, Parnu, Estonia.

Farjami, H., Azadi, M., (2011). WRF output post processing for wind in some coastal meteorological station of Persian Gulf. 8-11 NOV. 2011-Kish; IRAN.

Hosseini, S.T., **Farjami, H., (2010).** Modeling Pollutant Pervasion in Bushehr Bay with COHEHRENS Numerical Model 14th Geophysics Conferences of IRAN. 11-13 Jun 2010 – Geophysics Institute of Tehran University-Iran.

Farjami, H., Mohammadi G.H., (2009). Determining of Pattern Density Current of Uromeih Lake with GIS (2006-2008). Izmir-TURKEY, 20-22 October 2009.

Languages:

English, Русский, فارسی, Azərbaycan

Membership in scientific committee of:

Journal of Remote Sensing & Remote Sensing Letters
Caspian Journal of Environmental Sciences (CJES)
Iranian J. of ECOPERSIA
Iranian J. of Persian Gulf
Iranian J. of Oceanography
Iranian J. of the Earth and Space Physics
Iranian J. of Hydrophysics
International Conference on the Persian Gulf Oceanography
Journal of Ocean and Coastal Management
International Journal of Coastal & Offshore Engineering
Oceanologia