

CURRICULUM VITAE



Name: Akbar Rashidi Ebrahim Hesari
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E-mail: akbar.rashidi@modares.ac.ir
Date of birth: 23.09.1979
Nationality: Iranian
Place of Work: Department of Marine Physics, Tarbiat Modares University

Education/Qualifications:

B.Sc.	Applied physics	Razi University, Kermanshah, Iran	2003
M.Sc.	Marine Physics	Tarbiat Modares University, Tehran, Iran	2006
Ph.D.	Oceanography	Russian State Hydrometeorological University, Saint Petersburg, Russia	2013

M.Sc. thesis:

Simulation of Tidal and Density Induced Currents in an Artificial Two-Layer Basin

Ph.D. thesis:

The impact of the spatial variability in bottom roughness on tidal dynamics and energetics in the North-European Basin

Employment to Date/Work Experience

- Researcher, Iranian Meteorological Organization 2006-2009
- Researcher, Ph.D. Candidate at St. Petersburg Branch of Shirshov Institute of Oceanography, Saint Petersburg, Russia 2010-2013
- Lecturer, Academic Staff at Tarbiat Modares University, Iran 2013-present
- Iranian National Institute for Oceanography and Atmospheric Science 2014-2015
- Head of Marine Physics Department, Tarbiat Modares University 2015-2017
- Supervisor of Numerical Modeling and High Performance Computing Laboratory, Department of Marine Physics, Tarbiat Modares University 2014-present

Teaching experience:

University of Khazar, Mazandaran, Iran	General Physics, Meteorology, Climatology	2006-2007
Tarbiat Modares University	Marine Meteorology, Numerical Modeling in Oceanography, Ocean Dynamics, Programming with C++, Fortran and Matlab	2013-present
Iranian National Institute for Oceanography and Atmospheric Science	Numerical Modeling	2014-2015
Hormozgan University	Numerical Modeling in Physical Oceanography	2016
Mazandaran University	Marine Meteorology	2016

Languages:

English, Russian, Persian, Azerbaijani

Research interests:

Numerical Modeling of Oceanic processes: Wind Induced Currents, Tides and Tidal Currents, Hydrodynamics of bottom boundary layer
Hydrodynamics of Coastal Waters

University activities/Research works:

Ardashir Farhadi	Prediction of wind-driven waves and currents in the West Indian Ocean from the equator to the North of Makran Sea, using a five-layers oceanic model.	Atmospheric science and Meteorological Research Center (Iran)	Ph.D.	2014-now
Seyed Shakib Asiyaei	Three-Dimensional Simulation of Wind Induced Currents in the Persian Gulf	Department of Marine Physics, Tarbiat Modares University	M.Sc.	2014

Heshmat Azami	Simulation of Tides and Tidal Currents in the Persian Gulf	Department of Marine Physics, Tarbiat Modares University	M.Sc.	2014
Masumeh Mirzahosein	Numerical Simulation of Oil Pollution Transport in the Caspian Sea	Department of Marine Physics, Tarbiat Modares University	M.Sc.	2014
Javad Karami	Numerical Modeling of Wave and Current Interaction in a Tidal Inlet	Department of Marine Physics, Tarbiat Modares University	M.Sc.	2015
Marziyeh Hoseini	Impact of Spatial Variability of Bottom Roughness on Tidal Dynamics in the Hormuz Strait	Department of Marine Physics, Tarbiat Modares University	M.Sc.	2015
Rezvan Salami	The impact of the spatial variability in bottom roughness on tidal dynamic and in the Persian Gulf and Oman Sea	Iranian National Institute for Oceanography and Atmospheric Science	Ph.D.	2015-now
Esmaeil Niazi	Characteristics of Wind Induced Currents their Effect on Prediction of Wind Wave Characteristics in the Southern Part of the Caspian Sea	Department of Marine Physics, Tarbiat Modares University	M.Sc.	2016
Jalal Mofidi	Three-Dimensional Simulation of Wind Driven Currents in Caspian Sea	Hormozgan University	Ph.D.	2018
Ahmad Dordizadeh	Numerical Simulation of Oil Slicks Spreading in the Caspian Sea	Hormozgan University	Ph.D.	
Vahid Cheshmsiahi	Numerical Modelling of Oil Spill Trajectory in Persian Gulf	Department of Marine Physics, Tarbiat Modares University	M.Sc.	2018
Hasan Rabiei	Numerical Three-Dimensional Simulation Salinity and Temperature in Khowr-e Musa	Department of Marine Physics, Tarbiat Modares University	M.Sc.	2018
Sajad Andi	Occurrence of Internal Waves and their Classification according to Formation Mechanism in the Persian Gulf	Department of Marine Physics, Tarbiat Modares University	M.Sc.	
Mehdi Hamrang	Calculation of Tidal Energy and Assessment of its Sensitivity to Bottom Friction Coefficient in Khouran Channel	Department of Marine Physics, Tarbiat Modares University	M.Sc.	
Mohammad Maleki Lanbar	Temporal and Spatial Variations of Water Vorticity in the Caspian Sea	Department of Marine Physics, Tarbiat Modares University	M.Sc.	2017
Milad Rahime Malekshan	Ecosystem Services Modeling of Offshore Wind Energy of Caspian Sea in GIS Environment	Department of environment, Tarbiat Modares University	M.Sc.	2018
Abbas Amiri	Long Term Wave Hindcast Modeling of Anzali Port Waters Using SWAN Model and Look-up Table Method	Department of Marine Physics, Tarbiat Modares University	M.Sc.	2018

Wahid Zamani	Identification of genetic diversity and genetic resources of Iranian mouflon (<i>Ovis orientalis</i>) and its domestic populations (<i>Ovis aries</i>) in Iran, based on whole genome sequencing and microarray DNA chips	Department of environment, Tarbiat Modares University	Ph.D.	2018
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PUBLICATIONS:

Rashidi E.H.A., Zamanian M.T. Azarmsa, S.A., 2006. Simulation of Tidal Currents in an artificial Oceanic Two-Layer Basin, Using Three-Dimensional Numerical Model, Iranian Journal of Marine Sciences, 4, N 1, 4-13 (In Persian).

Farjami H., Zamanian M.T., Rashidi E.H.A., S.A., 2008. Three-Dimensional Simulation of Water Circulation in Urmia Lake, Iranian Journal of Marine Sciences, 11, N 1, 41-48 (In Persian).

Rashidi E.H.A., Zamanian M.T. Farjami H., Azarmsa S.A., 2011. Three-Dimensional Simulation of Water Circulation in Urmia Lake, Iranian Journal of Marine Sciences, (In Persian).

Rashidi E.H.A., Zamanian M.T. Azarmsa, S.A., 2006. Numerical Simulation of Density Induced Currents in an Oceanic Two-Layer Medium, 6th ICMST Conference of Iranian Marine Sciences, February, 2006, Tehran, Iran.

Rashidi E.H.A., Zamanian M.T. Azarmsa, S.A., 2006. Numerical Simulation of Tidal Currents in an Oceanic Two-Layer Medium, 6th ICMST Conference of Iranian Marine Sciences, February, 2006, Tehran, Iran.

Rashidi E.H.A., Zamanian M.T. Azarmsa, S.A., 2006. Modeling Tidal Currents in Persian Gulf Using a Three-Dimensional Numerical Model. 7th International Conference on Coasts, Ports and Marine Structures, November 2006, Tehran, Iran.

Rashidi E.H.A., Fallah. A., 2006. Three-Dimensional Numerical Model Designed for Investigating of Water Circulation in Urmia Lake and Comparing with Two-Dimensional Numerical Mike21 Model Results. 7th International Conference on Coasts, Ports and Marine Structures, November 2006, Tehran, Iran.

Rashidi E.H.A., Zamanian M.T., 2006. Simulation of Density Induced Currents in Urmia Lake Using a Three-Dimensional Numerical Model. 7th International Conference on Coasts, Ports and Marine Structures, November 2006, Tehran, Iran.

Kohne Poushi, A., Azarmsa S.A., Karami Khaniki. A., Rashidi E.H.A., 2006. Analyzing wind driven waves using semi experimental SMB method in Chabahar coastal region, 7th International Conference on Coasts, Ports and Marine Structures, November 2006, Tehran, Iran.

Kagan B.A., Sofina E.V., Rashidi E.H.A., 2010. How Sensitive Tidal Dynamics and Energetics are to Hydrodynamical Properties of Bottom, a Case Study: The White Sea. SciTopics. Retrieved September 14, 2010, 1-4, from <http://www.scitopics.com>

Kagan B.A., Sofina E.V., Rashidi E.H.A., 2012. The impact of the spatial variability in bottom roughness on tidal dynamics and energetics, a case study: the M₂ surface tide in the North European Basin. Ocean Dynamics, 2012, 62, 1425-1442.

Kagan B.A., Timofeev A. A., Rashidi E.H.A., 2012. Effect of Spatial Inhomogeneity of the Resistance Coefficient on the Dynamics of the M₂ Tidal Wave in the White Sea. Izvestiya, Atmospheric and Oceanic Physics, 2012, 48, №4, 487-500.

Kagan B.A., Sofina E.V., Rashidi E.H.A., 2012. Sensitivity of the tidal dynamics to the spatial variability of hydrodynamic roughness of the bottom as illustrated by the Pechora sea example. Fundamental and Applied Hydrophysics, 2012, vol. 5, N 3, 4-11 (in Russian).

Kagan B.A., Sofina E.V., Rashidi E.H.A., 2012. The influence domain of the White Sea in the tidal dynamics problem in adjacent seas. Navigation and Hydrography, 2012, 34, 75-78 (in Russian).

Kagan B.A., Sofina E.V., Rashidi E.H.A., 2013. Influence of the White Sea on Tides in Adjacent Marginal Seas of the North European Basin. Izvestiya, Atmospheric and Oceanic Physics, 2013, vol. 49, № 1, 107-123.

Rashidi Ebrahim Hesari A., Azami H., 2014. How sensitive are tidal predictions to bottom roughness in Persian Gulf. 2nd conference on Persian Gulf Oceanography, Tehran, Iran

Mirzahosein, M., Azarmsa S.A., Rashidi E.H.A., 2014. Simulation of oil spill movement in the Caspian Sea. 16th Marine Industries Conference, Bandar e Abbas, Iran, 2014.

Rashidi Ebrahim Hesari A., 2015. Introducing a new method to estimation the bottom friction coefficient in oceanic models. 17th Marine Industries Conference, Kish, Iran, 2015.

Hoseini S.M., Rashidi Ebrahim Hesari A., Naderi Bani A.M., 2016. Evaluation of density of M2 tidal energy flux in the Hormuz Strait. 18th Marine Industries Conference, Kish, Iran

Rashidi Ebrahim Hesari A., Hoseini S. M., 2017. Evaluating the Sensitivity of Tidal Dynamics to Spatial Variation of Bottom Friction Coefficient in the Hormuz Strait. *Hydrophysics*, Vol. 3(1), 21-32 (in Persian).

Mofidi J, Mohammad Mahdizadeh M, Rashidi Ebrahim Hesari A, Malakooti H. 2018. A sigma-coordinate primitive equation model for studying the circulation pattern in the South Caspian Sea. *Journal of Marine Engineering*. Vol. 13 (26), 97-105.

Jalal Mofidi, Maryam Rahbani, Akbar Rashidi Ebrahim Hesari. 2017. Generation, Propagation and Run-up of Tsunami Waves Crated by Submarine Landslide. *Iranian journal of Marine Eng.*, vol. 25, pp. 113-119.

Mofidi J., Rashidi Ebrahim Hesari A. 2018. Numerical simulation of the wind-induced current in the Caspian Sea. *International Journal of Coastal & Offshore Engineering*, vol. 2, N. 1, 67-77.

Wahid Zamani, Seyed Mahmoud Ghasempouri, Hamid Reza Rezaei, Saeid Naderi, Akbar Rashidi Ebrahim Hesari, Abdessamad Ouhrouch. 2018. Comparing polymorphism of 86 candidate genes putatively involved in domestication of sheep, between wild and domestic Iranian sheep. *Meta Gene*, Vol. 17, 223–231.

Membership in scientific committee of:

- 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 “Marine Industries”
- International Conference on the Persian Gulf Oceanography
- Journal of Ocean and Coastal Management
- International Journal of Coastal & Offshore Engineering