

## Curriculum Vitae



Positions: **Head of Caspian Sea Oceanography Research Center –Nowshahr**

Assistant Professor in **Physical Oceanography**

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## Academic Background

- PhD in **Physical Oceanography**, University Sciences Malaysia (USM), Malaysia (2007-2012)
- M.Sc. in **Physical Oceanography**, Faculty of Marine Sciences & Technology, Tehran, Iran (1997-2000)

## Positions & Work Experiences & Memberships

- 2014-Now: Head of Caspian Sea Oceanography Research Center –Nowshahr
- 2013-Now: Faculty Member of Iranian National Institute for Oceanography and Atmospheric Science (INIOAS)
- 2012- Now: Lecturer in Department of Marine Physics, Faculty of Marine and Ocean Sciences, Mazandaran University, Iran.
- 2013: Researcher in Shomal Research Institute of Defense Science and Technology
- 2008-2013: Lecturer in Department of Marine Physics, Faculty of Marine Sciences, Tarbiat Modares University, Iran.
- 2003-2009: Head of Physical Oceanographic Lab, Field man & Diver (Seagoing Physical Oceanographer) in Physical Oceanography Division, Department of Nonliving Resources, Iranian National Institute for Oceanography (INIO), Tehran, Iran.
- 2001-2002: Expert in Directorate of Coasts & Ports Engineering, Ports & Shipping Organization, Tehran, Iran.
- 1998-2000: Staff in Coastal Protection Division, Soil Conservation & Watershed Research Center, Tehran, Iran.
- Member of Iranian Society of Marine Science and Technology (ISMST)
- Reviewer of Journal of the Persian Gulf, INIOAS.
- Reviewer of Journal of Oceanography, INIOAS.

### EXTRACURRIALAR ACTIVITIES:

Technical Scuba Diving (PADI)

- Open Water Diver (PADI Certified)
- Advanced Open Water Diver (PADI Certified)
- Deep Specialist Diver (PADI Certified)

### INSTRUMENTATION:

Familiar with physical Oceanography equipment:

- Acoustic Doppler Current Profiler (ADCP, RD INSTRUMENTS\_ USA)
- Recording Current Meter (RCM9, AANDERAA\_ NORWAY)
- Wave and Tide Recorder (WTR9, AANDERAA\_ NORWAY)
- Automatic Weather Station (AWS2700, AANDERAA\_ NORWAY)
- Ocean Seven 316 (CTD, IDRONAUT\_ ITALY)
- Acoustic Release (AR, OCEANO\_FRANCE)
- Multi Water Sampler (MWS, HYDRO\_BIOS\_ GERMANY)
- Water Sampler (NISKIN, HYDRO\_BIOS\_ GERMANY)
- Pinger (BENTHOS\_ USA)
- KS Small Gravity Corer (KC\_ DENMARK)
- Grab Sampler (KC\_ DENMARK & HYDRO\_BIOS\_ GERMANY)

## Teaching Experiences

### **LECTURES:**

- Physical Oceanography
- Ocean Dynamics
- Data Analysis in Physical Oceanography
- University of Applied Sciences and Technology, Anzali Branch , Iran, 2014-Now
- Department of Physical Oceanography, Faculty of Marine and Ocean Sciences, Mazandaran University, Iran, 2012-2014
- Department of Physical Oceanography, Faculty of Marine Sciences, Tarbiat Modarres University, Iran, 2008-2013
- Islamic Azad University, Iran, Branch of Hamedan, 2004
- Islamic Azad University, Iran, Branch of Toyserkan, 2003
- Tehran Sama University, Islamic Azad University, Iran, Tehran, 2000.

### **SUPERVISION OF M.Sc. THESIS:**

- Mahsa Farzadnia, Physical Oceanography Group, Oceanic and Marine Sciences Faculty, Mazandaran University, 2014: “The Effects of Temperature, Salinity and Pressure on Sound Speed Structure in the Coastal Waters of Babolsar”.
- Mahyar Majidi Nik, Physical Oceanography Group, Marine Sciences Faculty, Tarbiat Modarres University, September 2013: “Variations of Physical Parameters, Stratification, and Stability of Water Column in the Persian Gulf”.

### Research Interest

- Physical Oceanography, Experimental and Data Analysis
- Current and Ocean Circulation
- Seawater Properties and Underwater Sound Speed

### Full Papers

#### ISI & ISC Papers:

- **Siamak Jamshidi** and Kazem Darvish Bastami (2016): Metal contamination and its ecological risk assessment in the surface sediments of Anzali wetland, Caspian Sea, *Marine Pollution Bulletin*, (In Press, **ISI Paper**).
- **Siamak Jamshidi** and Mohammad Reza Soheilifar (2016): Evaluation of Physical Structure and Summertime Stratification in the Coastal Water Column of the Southern Caspian Sea, *Iranian Journal of Marine Technology*, Vol. 3. No. 1&2, p.101-111, (**ISC Paper**).
- **Siamak Jamshidi** (2015): Seasonal Variability in Stability and Stratification of Water Column in the Southern Caspian Deep Sea, *Journal of Oceanography*, Vol. 6, No. 22, p. 83–95, (**ISC Paper**).
- **Siamak Jamshidi** (2014): Assessing Chlorophyll-a in the Southwestern Coastal Waters of the Caspian Sea, *Journal of the Persian Gulf* (Marine Science), Vol. 5, No. 16, p. 1-14, (**ISC Paper**).
- **Siamak Jamshidi** (2014): Seawater Properties and Thermal Stratification Over the Continental Shelf off Rudsar, South Caspian Sea, *Sylwan*, Vol. 158, No. 10, (**ISI Paper**).
- **Siamak Jamshidi** and Noordin Bin Abu Bakar (2012): Seasonal Variations in Temperature, Salinity and Density in the Southern Coastal Waters of the Caspian Sea, *Oceanology*, Vol. 52, No. 3, p. 380–396, (**ISI Paper**).
- **Siamak Jamshidi** and Noordin Bin Abu Bakar (2011): Variability of Dissolved Oxygen and Active Reaction in Deepwater of the Southern Caspian Sea, Near the Iranian Coast, *Polish Journal of Environmental Studies*, Vol. 20, No. 5, p. 1167-1180, (**ISI Paper**).
- **Siamak Jamshidi** and Noordin Bin Abu Bakar (2011): The Sound Speed in Southern Deepwater Zone of the Caspian Sea, off Anzali Port, *Acoustical Physics*, 57(2): 180-191, (**ISI Paper**)
- Naser Hadjizadeh Zaker, Peygham Ghaffari, **Siamak Jamshidi** and Majid Nouranian: Currents on the southern Continental Shelf of the Caspian Sea off Babolsar, Mazandaran, Iran. *Proc. of The 11<sup>th</sup> Int. Coastal Symposium, ICS2011, Poland*, Published in *Journal of Coastal Research (JCR)*, Special Issue 64, pp. 1989-1997. (**ISI Paper**)
- Naser Hadjizade Zaker, Peygham Ghaffari and **Siamak Jamshidi** (2007): Physical Study of the Southern Coastal Waters of the Caspian Sea, off Babolsar, Mazandaran in Iran, *Proc. of The 9<sup>th</sup> Int. Coastal Symposium, ICS2007, Australia*, pp. 51-52, and Published in *Journal of Coastal Research (JCR)*, Special Issue 50, pp. 564-569. (**ISI Paper**)

- **Siamak Jamshidi** and Noordin Bin Abu Bakar (2010): Temperature, Salinity and Density Measurements in the Coastal Waters of Rudsar, South Caspian Sea, *Journal of the Persian Gulf (Marine Science) JPG*, Vol. 1 (1), September 2010, 27-35, ISSN: 2008-7985. (ISC Paper)

**International Peer Review Journals:**

- **Siamak Jamshidi** and Mohammad Reza Soheilifar (2016): Observational Evaluation and Analysis Process of Sound Channel Forming and Sound Speed Changes in Eastern Part of the Southern Coastal Waters of the Caspian Sea, *Iranian Journal of Marine Science and Technology*, Vol. 79, No. 79.
- **Siamak Jamshidi** (2016): Comparison and Analysis of Spatial and Temporal Changes in Pattern of Seawater Components in Southwestern Continental Shelf and Deep Area of the Caspian Sea using Collected Data, *Iranian Journal of Marine Science and Technology*, Vol. 77, No. 77, p. 30-43.
- **Siamak Jamshidi** and Mohammad Reza Soheilifar (2015): Measurement and analysis of chemical parameters and sound propagation in the southern coastal water of the Caspian Sea, *Iranian Journal of Marine Science and Technology*, Vol. 75, No. 75, p. 1-13.
- **Siamak Jamshidi** and Mohammad Reza Soheilifar (2015): Analysis of Caspian Seawater Parameters in Nowshahr Area, *Iranian Journal of Marine Science and Technology*, Vol. 74, No. 74, p. 14-25.
- **Siamak Jamshidi** and Marzieh Yousefi (2014): Distribution of Active Reaction in the Coastal Waters of Kiyashahr, Iran, *Journal of Coastal and Marine Research*, 2(1): 8-12, DOI: 10.12966/cmr.01.02.2014.
- Mahsa Farzadnia, **Siamak Jamshidi**, Mohammad Motevalli (2014): The Effects of Temperature, Salinity and Pressure on Sound Speed Structure in the Coastal Waters of Babolsar, *Journal of Coastal and Marine Research*, 2(2): 19-22 doi:10.12966/cmr.04.02.2014
- **Siamak Jamshidi** and Noordin Bin Abu Bakar (2011): A Study on Distribution of Chlorophyll-*a* in the Coastal Waters of Anzali Port, South Caspian Sea, *Ocean Science Discussion*, 8: 435-451.
- **Siamak Jamshidi** and Noordin Bin Abu Bakar: Oceanographic Study in Coastal Waters of Babolsar, *Asian Journal of Earth Sciences*, 4(1): 1-8, 2011, ISSN: 1819-1886, DOI: 10.3923/ajes.2011.1.8.
- Naser Hadjizadeh Zaker, Peygham Ghaffari, **Siamak Jamshidi**, and Majid Noranian (2011): Dynamics of the Currents in the Strait of Khuran in the Persian Gulf, *Journal of Shipping and Ocean Engineering*, 1, 109-115.
- **Siamak Jamshidi** and Noordin Bin Abu Bakar (2010): An Analysis on Sound Speed in Seawater using CTD Data, *Journal of Applied Sciences*, 10:132-138, 2010. ISSN: 1812-5654. DOI:10.3923/jas.2010.132.138.
- **Siamak Jamshidi**, Noordin Bin Abu Bakar and Marzieh Yousefi (2010): Concentration of Chlorophyll-*a* in Coastal Waters of Rudsar, *Research Journal of Environmental Sciences*, 4: 383-391, 2010. ISSN: 1819-3412. DOI: 10.3923/rjes.2010.383.391.
- **Siamak Jamshidi**, Noordin Bin Abu Bakar and Marzieh Yousefi (2009): A Study on Concentrations of Dissolved Oxygen and Chlorophyll-*a* in the Coastal Waters of Babolsar, *American Journal of Applied Sciences*, 6(10):1860-1867, 2009. ISSN: 1546-9239. DOI: 10.3844/ajassp.2009.1860.1867.

**International Conferences (Indexed Proceeding):**

- **Siamak Jamshidi:** Study on physical and chemical characteristics of seawater of Gorgan Bay in the eastern part of southern coast of the Caspian Sea, Proceeding of *Academics World International Conference on Environmental Science and Development (ICESD 2016)*, 13-14th September 2016, Bangkok, Thailand, p. 17-21.
- **Siamak Jamshidi:** Climate change impacts on variations of hydrologic parameters in the southern part of the Caspian Sea, Proceeding of *International Congress on Climate Change and the Caspian Sea, INOC*, 8-9 May 2016, p. 1-4, Tehran, Iran.
- **Siamak Jamshidi:** Hydrological Surveys On The Southeastern Boundary Of The Caspian Sea, Proceeding of International Applied Science Conference on *Hydrometeorological and Environmental Security of Marine Economy*, 16-17 October 2015, Astrakhan, Russia.
- **Siamak Jamshidi:** Impact of Physical Parameters on Chlorophyll-a Distribution near the Mouth of Anzali Lagoon, Southern Caspian Sea, Proceeding of the *International Congress on Estuaries & Coastal Protected Areas ECPA 2014*, Izmir – Turkey, 4-6 November 2014.
- **Siamak Jamshidi et al.:** Variations of temperature, salinity and sound speed in the coastal waters of Babolsar, *YOUMARES4, The Conference for Young Scientists and Engineers*, 11-13 September 2013, Oldenburg, Germany.
- M. R. Saradjian, M. M. Hodjati and **Siamak Jamshidi:** Water Turbidity Mapping Using MODIS Spectral Bands, Proc. Of *The Second International Conference on Water, Energy and the Environment*, Kusadasi, Turkey, 21-24 September, 2013.
- Naser Hadjizadeh Zaker, Peygham Ghaffari, **Siamak Jamshidi** and Majid Nouranian: Dynamics of the Currents in the Strait of Khuran in the Persian Gulf. *International Conference on Coastal Zone Engineering and Management 2010*, 31 October – 3 November 2010, Sultan Qaboos University (SQU), Muscat, Sultanate of Oman.
- **Siamak Jamshidi**, Noordin Bin Abu Bakar and Marzieh Yousefi: Vertical Structure of pH in Coastal Waters of Kiyashahr, North of Iran. *2010 International Conference on Environmental Science and Technology (ICEST 2010)*, Research Publishing Services, pp. 524-528, Bangkok, Thailand, 23-25 April 2010, ISBN: 978-981-08-5716-5. DOI: 10.3850/978-981-08-5716-5 T320.
- **Siamak Jamshidi**, Noordin Bin Abu Bakar and Marzieh Yousefi: Water Column Characteristics over the Southern Continental Shelf of the Caspian Sea, off Rudsar. *The 2010 International Conference on Environmental Science and Development (CESD 2010)*, World Academic Press, pp. 173-177, Singapore, 26-28 February 2010. ISBN: 978-1-84626-024-7.
- Mir Moosa Hodjati, Mohamad Reza Saradjian and **Siamak Jamshidi** (2010): Chlorophyll-a Estimation in Sefidrud Estuarine Using MODIS Images, *XXIV FIG International Congress 2010, Facing the Challenges – Building the Capacity*, Sydney, Australia, 11-16 April 2010.
- **Siamak Jamshidi**, Noordin Bin Abu Bakar (2009): Distribution of Temperature, Salinity and Density on the

Southern Continental Shelf of the Caspian Sea, off Babolsar; during the Fall Season. *5th International Conference on Asian and Pacific Coasts (APAC 2009)*, World Scientific Press, Volume 3, pp. 22-28, Singapore, 13-16 October 2009. ISBN: 978-981-4287-94-4, DOI: 10.1142/9789814287951\_0092.

- Naser Hadjizadeh Zaker, Peygham Ghaffari, **Siamak Jamshidi** and Majid Nouranian: Physical Oceanography of the Strait of Khuran in the Persian Gulf. *11<sup>th</sup> International Conference on Environmental Science and Technology 2009*, 3-5 September 2009, Chania, Crete, Greece.
- **Siamak Jamshidi** and Noordin Bin Abu Bakar (2009): Distribution of Chlorophyll-a in the Coastal Waters of Babolsar, South Caspian Sea. *International Conference on Marine Ecosystem (INCOMES 2009)*, Langkawi, Malaysia, 26-28 May 2009, Abstract in Book, pp.130.
- Jaffar Azizpour and **Siamak Jamshidi** (2009): Investigation on Sea Water Level Fluctuations of the Caspian Using Altimetry Data, (Case Study; off Noshahr Port). *International Conference on Marine Ecosystem (INCOMES 2009)*, Langkawi, Malaysia, 26-28 May 2009, Abstract in Book, pp.130.

#### National Conferences:

- **Siamak Jamshidi** et al.: Study of the Physical Parameters of Sea Water in the Coastal Waters of Babolsar, *2<sup>nd</sup> International Conference on the Persian Gulf Oceanography & 10<sup>th</sup> Conference of Iranian Marine Sciences and Technologies*, 17-18 February 2014, Tehran, Iran (in Persian).
- Marzieh Yousefi and **Siamak Jamshidi**: Sound Speed Computation Using Seawater Physical Parameters Near Kiyashahr Port, Proc. Of *The 1<sup>st</sup> National Conference on Physics and Its Applications*, p. 686-691, 27 February 2013, Babolsar, Iran (in Persian).
- **Siamak Jamshidi** et al.: Study of Vertical Variations of Temperature, Salinity and Sound Speed in the Coastal Waters of Babolsar, Proc. Of *The 1<sup>st</sup> National Conference on Physics and Its Applications*, p. 692-697, 27 February 2013, Babolsar, Iran (in Persian).
- **Siamak Jamshidi**, Noordin Bin Abu Bakar and Marzieh Yousefi and Jaffar Azizpour (2009): Sound Speed Structure in the Southern Coastal Waters of the Caspian Sea, off Rudsar. Presented in *National Acoustic Conference (NAC2009)*, Shiraz, Iran.
- **Siamak Jamshidi** and Noordin Bin Abu Bakar (2008): PH Measurements in the Southern Coastal Waters of the Caspian Sea, off Kiyashahr Port in Guilan Province, Iran, The International Conference on *Modeling and Monitoring of Marine Pollution*, Kish Island, Iran, Abstract in Proceeding, pp139 (Full Paper on CD, pp521-526).
- **Siamak Jamshidi** and Peygham Ghaffari (2006): New Methods in Deployment and Recovery of Instruments in Physical Oceanography Studies of Iran, *Proc. Of The 7<sup>th</sup> Int. Conf. on Coasts, Ports & Marine Structures ICOPMAS*, Tehran, Iran, pp. 141, (in Persian with English Abstract).
- **Siamak Jamshidi** and Peyman Aghtouman (2006): Investigation of the Influence of the Structure Freeboard on the Wave Reflection from Rubble-Mound Seawalls, *Proc. Of The 6<sup>th</sup> Iranian Congress of Marine Science & Technology and The 1<sup>st</sup> Congress of Hydrography of Iran*, Tehran, Iran, Abstract pp. 38, (in Persian with English Abstract).

- Peyman Aghtouman and **Siamak Jamshidi** (2002): Introducing the Methods of Coastal Protection Using Seawalls, *The 1<sup>st</sup> Symposium of Role and Place of Watershed in Development of Natural Resources and Agriculture in the around of Caspian Sea, Rasht, Iran*, Abstract pp. 11-12, (in Persian with English Abstract).
- **Siamak Jamshidi**, Vahid Chegini, Mohammad Reza Banazadeh Mahani and P. Aghtouman (2001): Investigation of the Influence of the Structure Freeboard on the Irregular Wave Overtopping on Rubble-Mound Seawalls, *Proc. Of The 5<sup>th</sup> Symposium of Marine and Atmospheric Science, Hormozgan Univ., Bandar Abbass, Iran*, Abstract pp. 52, (in Persian with English Abstract).

## Projects

### MANAGING PROJECTS:

- Study of Physical Properties and Current in the Southern Continental Shelf of the Caspian Sea (Nowshahr Area) (2016)
- Study of Physical Parameters Seawater in the Southern Coastal Waters of the Caspian Sea (2014-2016)
- Seasonal Variations of Physical Parameters and Stratification of water column in Southwestern Deep Zone of the Caspian Sea (2014-2016)
- Study of the Currents in Southwestern Coastal Water of the Caspian Sea (2008-2010)

### INVOLVED IN RESEARCH PROJECTS:

- Coastal Monitoring of the Caspian Sea in Nowshahr Area (2014)
- Study of Rubble Mound Breakwaters Using Physical Modeling (1998-9)
- Investigation the Performance of Floating Breakwaters Using Physical Modeling (1999-2000)
- Investigation the Stability and Hydraulic Responses of Reshaping Breakwaters Using Physical Modeling (1999-2000)
- Investigation of Hydraulic Responses of Rubble Mound Seawalls Using Physical Modeling (1998-2000)
- Physical Oceanography Study of the Southern Coastal Waters of the Caspian sea (Phase I & II – Eastern Area) (2002-5)
- Physical Oceanography Study of the Southern Coastal Waters of the Caspian sea (Phase III – Western Area) (2004-5)
- Physical Oceanography Study of the Strait of Khuran (Persian Gulf) (2004-5)
- Wave Measurement in Asaloyeh Area (Persian Gulf) (2006-7)
- Study of Hydrodynamics and Sediment in Emam Port (North of the Persian Gulf)(2006-7)
- Study of Physical Properties and Hydrodynamics of the Karaj Dam (2007-8)
- Physical Oceanography Cruise of the Southern Caspian Sea, Phase II (2008)

### **Executive and Lecturer in:**

- Workshop on “Introduction on Oceanography, Instruments, Coastal Sampling Methods and Data Analysis”, Iranian National Institute for Oceanography and Atmospheric Science (INIOAS), May 2016.
- Workshop on “Introduction on Measuring Equipment and Field Measurements in Physical Oceanography”, Iranian National Institute for Oceanography and Atmospheric Science (INIOAS), May 2016.
- Workshop on “Physical Properties, Current Measurements and Sediment Sampling in Southern Coastal Water of the Caspian Sea (West Area- off Anzali Port)”, Iranian National Center for Oceanography (INCO), 6-7 November 2008.
- Workshop on “Introduction to Marine Measurement Equipments and their Usage”, in the Southern Coastal Water of the Caspian Sea (East Area- off Babolsar Port), Organized by Iranian National Center for Oceanography (INCO), 20 November 2008.