

## Curriculum Vitae

**Dr. Said Mazaheri**

Assistant Professor in **Offshore Engineering**

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## Academic Background

- PhD in Offshore Engineering, University of Newcastle upon Tyne, UK, Nov. 2003
- MSc in Hydraulic Structures (Marine Hydrodynamics), Sharif University of Technology, Tehran Iran, 1993
- BSc in Civil Engineering, Ferdowsi University of Mashhad, Iran, 1991

## Positions & Work Experiences & Memberships

### **Feb. 2013-Now**

- Assistant Professor of Offshore Engineering  
Ocean Engineering & Technology Research Center (OETRC), INIOAS

### **Nov. 2010-Feb. 2013**

- Head of Ocean Engineering and Technology Research Center (OETRC), Iranian National Institute for Oceanography and Atmospheric Science

### **Dec. 2010-Nov. 2011**

- Executive Deputy, Iranian National Institute for Oceanography and Atmospheric Science

### **Jan. 2005-Aug. 2010**

- Assistant Professor of Offshore Engineering and Head of Marine Transportation & Technology Dept., Transportation Research Institute

### **July-October 2004**

- Offshore Engineer Specialist, Lloyd's Register EMEA, Aberdeen, UK

### **Jan.-June 2004**

- Researcher, School of Marine Science & Technology, Newcastle University, UK

### **Feb 2001-Oct. 2004**

- IT Help Desk Advisor, ISS, Newcastle University, UK

### **Jun.-Dec. 2003**

- Researcher, Tyne Marina Project (East Holborn Development, South Shields), School of Marine Science & Technology, Newcastle University, UK

**Feb. 1997 – Aug. 1999**

- Director, Ocean Engineering Group, Water Research Centre, Tehran

**Sept. 1995- Feb. 1996**

- Part Time Advisor, Port and Shipping Organization, Tehran

**Sept. 1993- Feb. 1997**

- Senior Engineer/Project Manager, Sazeh Pardazi Iran Consulting Engineers, Tehran

**June 1991- Sept.1991**

- Part time Engineer, Abghir Consulting Engineers, Tehran

**Sept. 1990- Mar. 1991**

- Part time Engineer, Mahab Ghods Consulting Engineer, Tehran

## Teaching Experiences

**Courses Taught in the following universities:**

- Iran University of Science and Technology, Tehran, Iran
- Sharif University of Technology, Tehran, Iran
- Faculty of Marine Technology, Amirkabir University of Technology, Tehran, Iran
- Marine Science & Technology, Newcastle University, UK.
- Elmo-Farhang University, Tehran, Iran
- Iranian National Institute for Oceanography
  - Marine Hydrodynamics (PhD Course)
  - Advanced Offshore Engineering (PhD Course)
  - Computational Fluid Dynamics (PhD Course)
  - Design Offshore Platforms (MSc Course)
  - Fabrication, Construction and Installation of Offshore Structures (MSc Course)
  - Marine Geotechnics (MSc Course)
  - Advanced Offshore Design (MSc Course)
  - Offshore Design (BSc Course)
  - Fluid-Structure Interactions (MSc Course)
  - Offshore Installations (MSc & BSc Courses)
  - Hydraulics (BSc Course)
- Supervised 3 PhD and 16 MSc students and examiner of 12 students.

## Research Activities

### Research Interest

- Seakeeping of Floating Offshore Vehicles & Structures
- Wave Hydrodynamics
- Water Wave Hindcasting, Nowcasting and Forecasting
- Offshore Structures
- Marine Renewable Engineering
- Dynamic of Mooring Systems
- Application of Soft Computing Techniques in Ocean and Offshore Engineering
- Marine Hydrodynamics
- Oil Spill Modeling and Management
- Hydrodynamics of Ports and Harbors
- Port Engineering and Management
- Marine Pipeline
- Marine Geotechnics
- Offshore Installation

### Full papers

- **Mazaheri, S.**, Kamranzad, B., Hajivalie, F., 2013, Modification of 32 years ECMWF wind field using QuikSCAT data for wave hindcasting in Iranian Seas, *Journal of Coastal Research*, SI 65, ISSN 0749-0208
- Mehdi Yaghoobi, M., **Mazaheri, S.**, Jabbari, E. 2012, Determining Natural Frequency of Free Spanning Offshore Pipelines by Considering the Seabed Soil Characteristics, *Journal of Persian Gulf*, Vol. 3, No. 8
- **Mazaheri, S.**, Ghaderi, Z., 2011, Shallow water wave characteristics in Persian Gulf. *Journal of Coastal Research*, SI 64 , 572 – 575, ISSN 0749-0208
- **Mazaheri, S.**, 2010, Developing the second order wave effects on moored floating structures, *Journal of Marine Engineering*, Vol. 6, No.11
- **Mazaheri, S.**, 2006, The Usage of Artificial Neural Networks in Hydrodynamic Analysis of Floating Offshore Platforms, *Journal of Marine Engineering*, Vol. 3 No. 4 pp 1E-13E
- **Mazaheri, S.**, and Downie, M. J., 2005, Response-based method for determining the extreme behavior of floating offshore platforms, *Ocean Engineering*, Vol 32/3-4 pp 363-393, Elsevier

## Books

- 2013, Mazaheri, S., Response-based analysis of floating offshore platforms, Scholars' Press, ISBN: 978-3-639-51616-6
- 2006, Ports and Marine Structures Design Manual; "Loading and Design Consideration", No. 300-1, Management and planning Organization and Transportation Research Institute, Tehran, Iran
- 2006, Ports and Marine Structures Design Manual; "Breakwaters and Coastal Protection Structures", No. 300-5, Management and Planning Organization and Transportation Research Institute, Tehran, Iran
- 2006, Ports and Marine Structures Design Manual; "Berthing Equipment and Structures", No. 300-6, Management and planning Organization and Transportation Research Institute, Tehran, Iran

## Projects

- Offshore Metocean & Environmental Data Gathering and Processing for Farzad-A (Offshore Platforms) Development Project, INIOAS
- Evaluation of Tsunami Effects on Berthing Structures, INIOAS
- Evaluation of Tsunami Effects on Rubble Mound Breakwaters , INIOAS
- Oil Spill Modeling in Caspian Sea, INIOAS
- Hydrodynamic Analysis of Floating Wind Turbine (Feasibility Study for the Gulf of Oman), INIOAS
- Development of Operational Wave Forecasting Numerical Model in the North of Indian Ocean, INIOAS
- Estimation of the Effect of Relative Submerged Depth and Keulegan-Carpenter on the Vortex Formation Around the Vertical Submerged Breakwater, INIOAS
- Determining the Wave Spectrum for the Persian Gulf, INIOAS
- Providing a Numerical Code to Simulate Hydrodynamic Behavior of Floating Rigid Body Subjected to Tsunami Waves, INIOAS
- Development an Online Wave Forecasting System in Persian Gulf, Gulf of Oman and Caspian Sea, INIOAS
- Iranian Sea Wave Modeling (ISWM II), 32-year wave simulation in Persian Gulf, Gulf of Oman and Caspian Sea, INIOAS

## Workshops

- Marine Pipeline Engineering
- Design of Ports and Coastal Structures
- Marine Structures
- Water Wave Mechanics
- The Effects of Tsunami Waves on Coastal Structures