

# Mohammad Barzegar Paiin Lamouki

PHONE NUMBER : +98 (911) 326-4218

PERMANENT ADDRESS : Iran, Qaemshahr, Village of Paiin Lmouk, Yas Ave., №7  
"m\_barzegar\_p@yahoo.com"

## FIELDS OF STUDIES AND RESEARCH INTERESTS

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- The numerical simulation of wave interaction with offshore and coastal structures
- The Numerical Modeling of Hydraulic Phenomena and hydraulic structures
- Computational Marine Hydrodynamics and Fluid Dynamics
- Sediment Transport and Coastal Protections
- Experimental and Field Studies of Marine structures and Hydraulic Phenomena

## EDUCATION

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- **M.Sc, in Marine Structures Engineering (2008-2011)**  
Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran ( with a GPA of 15.63/20 and 18.19/20 in research)
- **B.Sc, in Civil Engineering (2006-2008)**  
University of Mohaghegh Ardabili, Ardabil, Iran ( with a GPA of 15.44/20)
- **A.Sc, in Civil Technician (2004-2006)**  
University of Tabriz, Tabriz, Iran. ( with a GPA of 17.09/20)

## EDUCATION HIGHLIGHTS

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- Ranked 405 among more than 21000 participants, M.Sc. of Civil Engineering Entrance Exam, Iran, 2008.
- Ranked 39 among more than 35000 participants, B.Sc. of Civil Engineering Entrance Exam, Iran, 2006.
- Ranked 4 among more than 4000 participants in Mathematics Exam in Qaemshahr, Iran, 2000.
- I have acquaintance with engineering softwares MIKE21, ETABS, AutoCAD, and MATLAB , FORTRAN and also general softwares like Word, Excel, and Powerpoint

## LANGUAGES and GRE

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- **Persian** as native
- Proficient in **English ( Toefl 88 )**
- **Qua:168 , Ver : 137 and W : 3.5**

## RESEARCH BACKGROUND and ARTICLES

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- 8 months ( 2009-2010) of full time research on “The modeling of rip currents” under supervision of A/Prof. Mohammad Javad Ketabdari and Parviz Ghadimi that ended up as an M.Sc. thesis.
- 13 months (2010-2011 and 2012-2013) of full time research on “The modeling of boussinesq equations ” and “The modeling of interaction between waves and submerged breakwaters” using Finite Difference scheme under supervision of A/Prof. Parviz Ghadimi.
- Research on the use of renewable energies under supervision of A/Prof. Mesbah sayebani.
- Afshar, A., Salehi ,A., Barzegar, P.L.M., “Flood control optimization for dams having gated spillways using Genetic algorithm” 2<sup>nd</sup> National Conference on Water Resources Management (Accepted 2011).
- Barzegar, P.L.M., Ghadimi, P., Zamanian,R., Feizi, C.A., “Numerical modeling of the interaction of regular waves and trapezoidal submerged breakwater by Nwogu's extended Bousinesq equations” Universal journal of hydraulics (Under review).
- Ketabdari, M.J., Barzegar, P.L.M., “The modeling of induced rip currents by discontinuous submerged breakwaters” J. of Marine science and engineering (Under review).
- Barzegar, P.L.M., Ketabdari, M.J., Motaghedi, H., “The Modeling of Rip Currents around Discontinuous Submerged Breakwaters” J. of Ocean System Engineering (submitted).
- Ketabdari, M.J., Barzegar, P.L.M., Moghaddasi, A., “The Modeling of discontinuous submerged breakwater effects on water surface elevation” (under last review by Ketabdari, M.J., for journal submission in 2014).
- Ghadimi, P., Barzegar, P.L.M., “Finite Difference Simulation of Regular Wave Propagation over Beach by Nwogu Extended Boussinesq Equations” J. of Computational Fluid Dynamics (Under review).
- Barzegar, P.L.M., Ghadimi, P., Zamaniyan, R., Feizi, C.A., “A comparative study of performance of semicircular and rectangular submerged breakwaters using Nwogu's extended Boussinesq equations” J. of Coastal research(Under review).

- Ghadimi, P., Barzegar, P.L.M., “Simulation of rip currents created around rip channel” (under last review by Ghadimi, P., for journal submission in 2014).

## **OTHER AREA’S OF INTERESTS**

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- Interested in history books
- Interested in cosmos science
- I like go swimming and bicycle riding.
- Art (I have tried to learn the dulcimer)
- Playing basketball, handball and ping-pong (I have got several medals in these fields)

## **PROFESSIONAL EXPERIENCES**

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- “The modeling of rip currents in the coastline, the survey of threats and their effects on coast safety and informing coast guards and swimmers” supported by the Caspian Sea coast safety guard , Sari, Iran (2011).
- Supervisor of some buildings , a hospital and some gymnasiums in Sari, Qaemshahr, Babolsar, Amol, Tonekabon, Neka and Chalus(2012).
- An official member of Qaemshahr Engineers center (2013).
- Supervisor of construction of breakwater in the Caspian Sea (2013).
- The head of technical office in the Tat mal project, Tehran, Iran.( Now)

## **ACADEMIC EXPERIENCES**

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- **Lecturer** of “Statics I” and “Structural Mechanics and Materials”, spring 2011, University College of Rouzbahan ([www.rouzbahan.ac.ir](http://www.rouzbahan.ac.ir)), Sari, IRAN.
- **Lecturer** of “Statics II”, “An Introduction to Principles of Architecture and Projects” and “Computer Applications in Civil Engineerin”, fall 2011, University College of Rouzbahan , Sari, IRAN.
- **Lecturer** of “Planning of Concrete Buldings” and “Statics I and II” spring 2012 to spring 2013, University College of Rouzbahan , Sari, IRAN.
- **Lecturer** of “Statics I and II ” and “Structure operations” summer 2012, University College of water and electricity industry, Sari, IRAN.

- **Lecturer** of “specific English for civil engineering” and “Planning of Concrete Buldings”, fall 2013, University College of Rouzbahan , Sari, IRAN.

## REFERENCES

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### **Parviz Ghadimi**

Associate Professor of Structural Engineering  
Amirkabir University of Technology  
Tehran, Iran.  
Tel : +98 (21) 645-43117  
Email: [pghadimi@aut.ac.ir](mailto:pghadimi@aut.ac.ir)  
Webpage: <http://aut.ac.ir/pghadimi>

### **Mohammad Javad Ketabdari**

Associate Professor of Structural Engineering  
Amirkabir University of Technology  
Tehran, Iran.  
Tel : +98 (21) 615-43111.  
Email: [ketabdar@aut.ac.ir](mailto:ketabdar@aut.ac.ir)  
Webpage: <http://aut.ac.ir/ketabdar>

### **Rahim Zamanian**

Assistant Professor of Structural Engineering  
Amirkabir University of Technology  
Tehran, Iran.  
Email: [rzamanian@aut.ac.ir](mailto:rzamanian@aut.ac.ir)  
Webpage: <http://www.aut.ac.ir/official/main.asp?uid=rzamanian>