


• **Personal Information**

	Name	Hassan Akbari
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• **Honors**

- 1st rank in Ph.D. graduations in Marine Structures, University of Tehran, Tehran, Iran, 2013
- 1st rank at the Ph.D. entrance Exam in Marine Structures, University of Tehran, Tehran, Iran, 2005
- 1st rank in M.S. graduations in Marine Structures, University of Tehran, Tehran, Iran, 2005
- 17th rank at the M.S. global entrance Exam in Iran in Civil engineers, Iran, 2002

• **Education**

Degree	Field of study	Grade average /20	University	Graduation year	Thesis
Diploma	Mathematic	19.30	Imam Khomeini	1998	-
B.S.	Civil	16.08	University of Tehran	22 Jul. 2002	-
M.S.	Marine Structures	17.71	University of Tehran	20 Aug. 2005	<i>Title:</i> Nonlinear-Dynamic analysis of mono-pile under ship impact considering large deformation effects <i>Supervisor:</i> Dr. Khosro Bargi
Ph.D.	Marine Structures	18.29	University of Tehran	13 Apr. 2013	<i>Title:</i> Simulation of free surface fluid flow interaction with saturated porous media by means of an improved SPH method <i>Supervisor:</i> Dr. Masoud Montazeri Namin <i>Adviser:</i> Dr. Soheil Mohammadi <i>Grade:</i> Excellent

• **Employment**

Company	Country	Start	End	Field of Cooperation
Sazeh Pardazi Iran Consultant Engineering	Iran	2002	2005	Senior expert in numerical modeling and coastal engineering
University of Tehran	Iran	2004	2006	Responsible of soil laboratory in School of Civil Engineering, College of Engineering, University of Tehran
Sazeh & Jarf Sazeh Consultant Engineering	Iran	2004	2005	Senior expert in structural design
Sahel Consultant Engineering	Iran	2005	-	Project Manager for oil and gas projects Senior expert in Numerical modeling and coastal engineering
Tarbiat Modares University	Iran	2014	-	Assistant Professor, Department of Civil and environmental engineering

- *Journal Papers*

Title	By	Year	Printed in
Dynamic analysis and design of mono-pile under ship impact considering the nonlinear soil-structure-water interaction	Akbari H., Bargi Kh.	Dec.2005	faculty of engineering journal, University of Tehran 39(5),571-582
Moving particle method for modeling wave interaction with porous structures	Akbari H., Namin M.M.	2013	Coastal Engineering 74, 59-73
Modified moving particle method for modeling wave interaction with multi layered porous structures	Akbari H.	2014	Coastal Engineering 89, 1-19
Incompressible and weakly compressible SPH methods in simulating turbulent free surface flows	Akbari H.	Under review	International Journal of Computational Methods
Nonlinear interaction of quay wall and soil for design purposes/ In persian	Akbari H.	Under review	The Modares Journal of Civil Engineering

- *Conference Papers*

Title	By	Year	Presented in
Comparison of different wave generation methods from wind data based on SPM1984 and CEM manuals	Akbari, H., Navari, M., Borouzi, S.	2004	ICOPMAS,6 th
Numerical simulation of heat dissipation in Neka power plant	Hajmomeni, A., Akbari, H., Khoddam, A., Parhizkari, S.	2004	ICOPMAS,6 th
Numerical simulation of heat dissipation in Paresar power plant design considering the near field and far field domains	Hajmomeni, A., Akbari, H., Badie, P.	2006	ICOPMAS,7 th
Joint probability analysis of wave height, storm surge and tidal elevation in Chabahar	Akbari, H., Hosseini, M.	2008	ICOPMAS,8 th
Evaluating design formulas of berm breakwater by means of physical modeling and in situ surveying: case study of Shahid Beheshti breakwater	Hosseini, M., Akbari, H.	2010	ICOPMAS,9 th
Enhanced Monte Carlo joint probability analysis of tide, storm surge and wave height in Chabahar	Akbari, H., Hosseini, M.	2012	ICOPMAS,10 th
Increasing of berm Breakwater stability based 2D and 3D physical modeling tests results: Case study of Shahid Beheshti Breakwater	Hosseini, M., Akbari, H.	2012	ICOPMAS,10 th
Stability and accuracy of compressible and incompressible SPH methods in simulating turbulent free surface flows	Akbari, H.	2014	ICOPMAS,11 th
Numerical Modeling of Non-Cohesive Contact in Multi-Body Hydrodynamic Systems with SPH, DOI: 10.13140/RG.2.1.5160.3921	Mohajeri, M.J., Shafieefar, M., Salimi, A., Akbari, H.	2016	ICCE'16; 35 th international conference on coastal engineering; Istanbul, Turkey
Modeling nonlinear soil-pile-beam interaction for a long crane beam subjected to longitudinal loads	Akbari, H.	2016	International conference of civil engineering, Tehran
A reliable method for design of gravity quaywalls; a case study for Shahid Beheshti port	Akbari, H., Hosseini, M.	2016	ICOPMAS,12 th
Optimum Wharf type in soft soils; A case study for Mahshahr	Akbari, H., Soleimani, K.	2016	ICOPMAS,12 th
The advantages of Multilayer berm breakwaters	Hosseini, M., Akbari, H.	2016	ICOPMAS,12 th
evaluating the importance of hydrodynamic forces on the submarine pipes / In persian	Akbari, H.	2016	MIC; Marine Industries Conference, 18th
Modeling of single pipe under lateral load with nonlinear soil interaction	Allahmoradi, G., Akbari, H.	2016	MIC; Marine Industries Conference, 18th
Near field mixing of Multi-Diffuser Dense Jets in Shallow water condition and Ambient Currents	Akbari, H., Ebrahimi, M.H.	2016	Iranian Hydraulic Conference, 15 th

- **Teaching and Scientific Experiences**

Activity	Note	Date
Supervision of installing soil laboratory equipment such as centrifuge models, shaking table, ...	Dynamic soil laboratory, School of Civil Engineering, College of Engineering, University of Tehran, Iran	2004-2006
Teaching technical software "Mike21"	Port and Maritime Organization (PMO), Iran, 2011 Maritime Transportation Road, Housing & Urban Development Research Center, 2014 Water Engineering Research Institute (WERI), TMU, 2015	From 2011
Reviewer for: - Journal of Hydrogeology & Hydrologic Engineering (JHHE) - Iranian Water Resource Association (IR-WRA) - Iranian Hydraulic Association (JHYD) - The Modares Journal of Civil Engineering - International Journal of Maritime Technology (IJMT) - 18 th Marine Industries Conference	Reviewer for scientific journals & conferences	From 2012
Teaching post graduate courses: - Coastal Engineering - Offshore structures - Mesh-Free Methods - Sediment Engineering	Department of Civil and Environmental Engineering, Tarbiat Modares University, Tehran, Iran	From 2014
<i>Supervisor:</i> - Ali Sasani; "Efficiency of SPH-GPU in modeling wave run-up", <i>Not completed</i> - Amir Taherkhani; "Wave interaction with composite breakwater with SPH", <i>Not completed</i> - Mohammad Arian; "Omega-shaped bays in the southern coast of IRAN", <i>Not completed</i> <i>Adviser:</i> - Mohammad Javad Mohajeri; "A Numerical Study on Movement of Cubic Armor Layer with SPH", September, 2015	Department of Civil and Environmental Engineering, Tarbiat Modares University, Tehran, Iran	From 2014

- **Certificates**

Activity	Company	Date	Field
Quality management principles ISO9001:2000	Sazeh Pardazi Iran Consultant Eng.	2003	Management
Advanced Ansys Software	University of Tehran SID	2004	Structural
National building regulations, Topic 19	Institute for productivity and human resource development (IPHRD)	2011	Building
Project claim management	Ariana industrial and research group	2011	Management
Risk management in EPC projects	Moravejan Bahrevari Co.	2012	Management
Project manager competency development framework (PMCDF) standard	Bonyan	2012	Management
Project Management Body Of Knowledge (PMBOK):2012	Sahel Consultant Eng.	2014	Management
Explanation & internal audit of - ISO 9001:2008 - ISO 14001:2004 - OHSAS 18001:2007	DQS	2014	Management
Integrated management system (IMS)	Sahel Consultant Eng.	2015	Management
Building courses: - Structural modeling and design software - Resistant systems for concrete and steel structures - Design and retrofitting of masonry buildings	University of science and culture	2015	Building
Management of oceanic metadata	National Institute of Oceanography and Atmospheric Science	2016	Management

- *Some Professional Experiences*

Numerical and hydrodynamic modeling , sample projects:
Investigating the sedimentation in Kiashahr port located at the northern coasts of Iran
Numerical modeling of hydrodynamic and sedimentation condition for the Dargahan port located at the Gheshm Island
Numerical modeling of hydrodynamic and sedimentation condition for the Sirik port located near the Strait of Hormuz
Numerical modeling of hydrodynamic and sedimentation condition for the Bahregan port located in the Bushehr province
Numerical modeling of hydrodynamic and sedimentation condition for the Shahid Beheshti port in the Chabahar bay
Numerical modeling of Zangi and Jafari estuaries in Khoozestan province for their improvement studies
Numerical modeling of hydrodynamic and thermal dispersion of the Neka power plant located at northern coast of Iran
Numerical modeling of hydrodynamic and thermal dispersion of the Paresar power plant located at northern coast of Iran
Study and numerical modeling of the hydrodynamic and sedimentation condition for the Mahshahr port
Modeling the hydrodynamic and thermal dispersion of Kavian water desalinated system in Assaluyeh and finding its intake and outfall location
Modeling the hydrodynamic and thermal dispersion of Damavand water desalinated system in Assaluyeh and finding its intake and outfall location
Modeling the hydrodynamic and thermal dispersion of Bandarabbas water desalinated system and finding its intake and outfall location
Modeling the hydrodynamic and thermal dispersion of Phase 9 and 10 of Assaluyeh water intake and finding its intake and outfall location
Modeling the hydrodynamic and thermal dispersion of Phase 13 of Assaluyeh water intake and finding its intake and outfall location
Modeling the hydrodynamic and thermal dispersion of Phase 22,23 and 24 of Assaluyeh water intake and finding its intake and outfall location
Modeling the hydrodynamic and thermal dispersion of Kish water intake and finding its intake and outfall location
Simulating the hydrodynamic and thermal dispersion of Tonbak LNG water intake and locating its intake and outfall
Numerical modeling of wave propagation and hydrodynamic condition along the submarine pipeline from the Kish Island
Study and numerical modeling of hydrodynamic and thermo-hydrodynamic condition (wave, wind, current, tidal elevation, sedimentation, wind-wave set up, ...) for all the southern coasts of Iran and preparing regional maps used for locating the water intake systems in southern provinces of Iran
Basic hydrodynamic study for Hendoorabi island and finding the best alternative for locating its jetty for exploration
Study the diffraction and wave propagation in Babolsar Port and design an extension layout for its breakwater
Study and numerical modeling of the hydrodynamic wave and current conditions near the Lavan Island
Modeling the hydrodynamic and salinity dispersion of Kangan water intake and finding its intake and outfall location
...
Design , sample projects:
Design the checking the hydraulic stability of submarine pipeline cover from the Kish Island
Basic hydrodynamic study for Kavian region and finding the best alternative for locating its temporary jetty
Design the checking the hydraulic stability of submarine pipeline cover located between Lavan and Nakhiloo
Design the cover of water intake pipeline for Pardis Intake in Assaluyeh and checking its stability under wave conditions
Design the cover of water intake pipeline for Kavian Intake in Assaluyeh and checking its stability under wave conditions
Design the cover of water intake pipeline in Assaluyeh, Phase 15, 16 and checking its stability under wave conditions
Structural design of platforms in Kermanshah petrochemical plant
Structural design of substation building in Kavian petrochemical plant located in Assaluyeh
Structural design of concrete segments of subway tunnel, route No.4 in Tehran
Structural design of concrete blocks of Shahid Beheshti quay wall
Structural design of crane beam and its piles for Shahid Beheshti port
Design different alternatives (Berm, conventional and concrete armors) for Shahid Beheshti breakwater
Hydraulic and geotechnical design of Shahid Beheshti extension breakwater located in Chabahar bay
Design the berthing and mooring system of Shahid Beheshti port located in Chabahar bay
Design an improvement system for Shahid Kalantari breakwater located in Chabahar bay
Hydraulic and geotechnical design of Amirabad extension breakwater in northern coasts of Iran
Hydraulic and geotechnical design of Barkhan breakwater sections and layout in Bushehr province
Design the coastal protection and flare jetty for the Kangan plant
...
Management , sample projects:
Management and Cooperation in preparing different proposals such as NGL1800, NGL2300, CFU100, CFU200, Bushehr intake system, Nashpa refinery plant and ...
Management for setting up Dorsa system for engineering, documentation, procurement and construction activities for NGL Kharg as general contractor
Project manager of interconnecting subproject of NGL Kharg as general contractor
Project manager of integration subproject of NGL Kharg as general contractor
...

- ***Computer Skills***

Software	Field	Skill		
		Moderate	Good	Excellent
MIKE 11,21,3- HecRas, Cormix	Hydrodynamic and Sediment models			✓
Breakwat,Wallap,GeoSlope, Plaxis	Geotechnical design			✓
SACS	Offshore design		✓	
Ansys, Sap2000, Etabs, Safe	Structural design			✓
Matlab, Delphi, Fortran	Mathematical and programming			✓
Microsoft Office, Autocad	General Software			✓

- ***English Language***

Reading	Writing	Speaking
Excellent	Excellent	Good