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Pouya Zarbipour Lakposhteh

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Research Interest

Reliability Analysis, Coastal Engineering, Risk and Resilience, Machine Learning, RBDO

Education

Tarbiat Modares University (TMU), Tehran, Iran — Sep. 2021 – Feb. 2024
MSc in Civil Engineering (coastal, port, and marine structures) | GPA: 15.03 (out of 20)
Thesis title: Probabilistic evaluation of effluent discharge performance in desalinations. | Link
Supervisor : Prof. Hassan Akbari

The National University of Skills (NUS), Tehran, Iran — Sep. 2015 – Feb. 2020
ASc and BSc in Civil Engineering | GPA: 14.94 (out of 20)

Achievements/Awards

Ranked 2nd graduates, Iran — 2023
Received for MSc
Tarbiat Modares University – Ranked 7th in the Country Based on US News

Governmental Fellowship, Iran — Fall 2021
Received for MSc
Tarbiat Modares University – Ranked 7th in the Country Based on US News

Volunteer, Iran — Feb. 2020 – Jun. 2020
Received for Covid-19
Iranian Red Crescent

Governmental Fellowship, Iran — Fall 2015
Received for ASc and BSc
The National University of Skills

Teaching, Research And Professional Experiences

Supervisor and Executive Engineer, Iran — May 2024 – present
Iran Construction Engineering Organization (IRCEO)

Reliability-Based Design Optimization, RA (Prof. Akbari) — Sep 2023 – present
Department of Marine Structures

Technical Expert of Lab, Civil Computing Laboratory — Apr 2023 – Feb 2024
Tarbiat Modares University

Numerical Methods in Marine Engineering, TA (Prof. Akbari) — Spring 2023
Department of Marine Structures

Publications

Reliability design of seawater desalination outfalls based on a novel probabilistic environmental assessment.
First Author - Ocean Engineering, IF:4.6 | DOI

Reliability-Based Design Optimization of Berm Breakwaters with Different Reshaping and Dependency Structures.
First Author - Coastal Engineering (under review), IF:4.2 | DOI

Bayesian regression for the prediction of berm breakwaters recession.
First Author - Coastal Engineering (under review), IF:4.2 | DOI

Project

The Persian Gulf Coastline Monitoring — Dec 2022 – Feb 2023
GiS and Remote Sensing course, Department of Marine Structures

Investigation and analysis of hydrological parameters of Helleh basin in Bushehr, Iran — Dec 2022 – Jan 2023
GiS and Remote Sensing course, Department of Marine Structures

Monitoring the surface temperature of the Persian Gulf in a 10-year period — Nov 2022 – Nov 2022

GiS and Remote Sensing course, Department of Marine Structures

Breakwater and port design for Kish Island in the Persian Gulf Jun 2022 – Jul 2022
Design of Conventional Marine Structures course, Department of Marine Structures

Design of the block pier, pile, and deck of Kish Island in the Persian Gulf Jun 2022 – Jul 2022
Design of Conventional Marine Structures course, Department of Marine Structures

Investigating the changes in Surface elevation, pressure, current speed, etc. in the Persian Gulf Jun 2022 – Jul 2022
Numerical Methods in Marine Engineering course, Department of Marine Structures

Skills

Personal Strengths: Excellent communication, interpersonal relationship skills, Leadership and Team Player, Organizational skills, Time and Project Management.

Programming: MATLAB, Python, Fortran.

Software: UQLab, Sacs, Mike Zero, PLAXIS 3D, SAP2000, Mixzone Cormix, ArcGIS Pro, Google Earth Engine.

Notable Courses

GiS and Remote Sensing, First Grade (18.6/20)

Numerical Methods in Marine Engineering, First Grade (16.5/20)

Marine Geotechnics, Second Grade (18.3/20)

Design of Conventional Marine Structures, Second Grade (15/20)

Offshore Platform, Second Grade (14.5/20)

Test Scores

TOFEL In Progress
Reading, Listening, Writing, Speaking

References

Dr. Hassan Akbari
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Prof. Mehdi Shafieefar
Professor, Faculty of Civil Engineering
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Prof. Seyed Ali Akbar Salehi Neyshabouri
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