[Last update: December 2024]

Pouya Zarbipour-Lakposhteh

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Research Interest

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

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 Desalination. | 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
Awarded for MSc
Tarbiat Modares University – Ranked 7th in Iran according to US News.

Governmental Fellowship, Iran — Fall 2021
Awarded for MSc
Tarbiat Modares University – Ranked 7th in Iran according to US News.

Volunteer, Iran — Feb. 2020 – Jun. 2020
Awarded for COVID-19
Iranian Red Crescent

Governmental Fellowship, Iran — Fall 2015
Awarded 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

[J] Reliability design of seawater desalination outfalls based on a novel probabilistic environmental assessment.
Published in Ocean Engineering (Q1 and IF: 4.6) | First Author | DOI

[J] Reliability-Based Design Optimization of Berm Breakwaters with Different Reshaping and Dependency Structures.
Under Review in Coastal Engineering (Q1 and IF:4.2) | DOI

[J] Bayesian regression for the prediction of berm breakwaters recession.
Under Review in Coastal Engineering (Q1 and IF:4.2) | First Author | DOI

[J] Probabilistic Design of Rubble Mound Breakwaters Considering Environmental Parameter Correlations.
Under Review in Ocean Engineering (Q1 and IF:4.6) | DOI

[J] Predicting Berm Breakwaters Recession Using Machine Learning.
In Progress | First Author

[C] Assessment of the Spread of Desalination Plant Effluent Study Area: Saqi Koothar Desalination Plant, Bandar Abbas.
Presented at 1st International Conference on Blue Economy | First Author | Link

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 and interpersonal skills, leadership and teamwork abilities, organizational skills, and 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. Seyed Ali Akbar Salehi Neyshabouri
Professor, Faculty of Civil Engineering
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