

Sahar Soltani

Ph.D. Student at the University of Windsor
Thesis Topic: Modeling sediment transport
pathways around Point Pelee Foreland
MSc. in Civil-Hydraulic (Coastal) Engineering

Phone: 437-972-8039
Email: soltani2@uwindsor.ca

RESEARCH INTERESTS

- Sediment Dynamics in Estuaries and Coastal Areas
- Environmental Monitoring
- Constituent Sediment Analysis and Sedimentology
- Coastal Hydrodynamics
- Coastal Geomorphology
- Field Measurements
- Coastal Disaster

EDUCATION

- Master of Science, Civil - Water and Hydraulic Structures Engineering, 2017
K. N. Toosi University of Technology, Tehran, IRAN
Thesis Topic: Analysis and Mapping of Oolitic Sediments in the Persian Gulf
- Bachelors of Science, Civil Engineering, 2013
Power and Water University of Technology, Tehran, IRAN

CORE COURSES

- Hydrodynamics (MSc.)
- Advanced Hydraulics (MSc.)
- Sedimentation & Erosion Engineering (MSc.)
- Embankment (Earth) Dams (MSc.)
- Advanced Eng. Hydrology (MSc.)
- Numerical Model in Water Eng. (MSc.)
- Hydraulic Design of Structures (MSc.)
- River Eng. (MSc.)

RESEARCH EXPERIENCE

- Morpho-Dynamics Modeling of Astara Port Coastline, the Caspian Sea, Institute of Geophysics, University of Tehran; 2019 – Present.
- Developing a forecasting system for winds, waves, and currents in the Persian Gulf, Institute of Geophysics, University of Tehran; 2018 – 2019.

- Site Selection of Cage Culture Farms in the Persian Gulf, based on Environmental Considerations, Institute of Geophysics, University of Tehran; 2017 – 2018.
- Sediment Constituents in the Iranian Waters of The Persian Gulf, The Oman Sea and The Caspian Sea, Institute of Geophysics, University of Tehran; 2017

WORK EXPERIENCE

- Visiting Scholar,
Met-Ocean and Environmental Monitoring Studies
Institute of Geophysics, University of Tehran; 2016-Present
- Project Expert,
Ray Aab Consulting Engineers; 2017-Present

PUBLICATIONS

a) Refereed Journal Publications:

- Soltani, Sahar, Haghshenas, S. A., (2019): Characteristics of Oolitic Banks in the North-Western Persian Gulf. Submitted to Marine Geology (under review).

b) Conference Presentations:

- Soltani, Sahar, Haghshenas, S. A., Soltanpour, M., (2018): An investigation on the Formation of Oolitic Banks in the North- Western Persian Gulf, *15th International Coastal Symposium*, May, 2018, Busan, South Korea.
- Soltani Sahar, Soltanpour M., Haghshenas S. A. (2016): Finger prints of hydrodynamic conditions of the North-Western Persian Gulf in the oolitic banks - case study of Bushehr Bay, *12th International Conference on Coasts, Ports & Marine Structures, ICOPMAS*, Tehran, Iran, CD, pp. 155-15

TEACHING EXPERIENCE

- Teaching Assistant, The theory of Waves and Tides,
Institute of Geophysics, University of Tehran; 2017-Present
- Iranian Coastal & Marine Structural Engineering Association (ICOMSEA)

HIGHLIGHT OF RESEARCH EXPERIENCE

- Sediment Constituent Analysis in the following coastal areas:
 - General assessments of sediment sources along the northern Persian Gulf coastlines
 - Iranian Coastlines of The Caspian Sea
- Coastal dynamics and modeling
- Waves and currents forecasting for the Persian Gulf
- Feasibility study for developing an environmentally sustainable integrated multi-trophic mariculture system (IMTM)
- Shoreline Changes Evaluation over Iranian Coastlines of the Persian Gulf

SOFTWARE SKILLS

- Delft-3D
- Fortran Programming
- Arc GIS
- DHI-Mike 21
- Flow 3D
- Water Gems
- Civil 3D
- Sketch Up
- Auto Cad