

Ahmed, Sherif Mostafa Ali, M.Sc.

Contact Information

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Positions

- Research Assistant, River-Coastal Science and Engineering Program, Tulane University (January 2022 to present).
- Assistant Researcher, Hydraulics Research Institute (HRI), Egypt (December 2021 to present).
- Research Assistant, Hydraulics Research Institute (HRI), Egypt (March 2016 to November 2021).

Education

- **M.Sc. in Fluvial Morphology - Water and Environment Engineering**
October 2021, Faculty of Engineering, Cairo University, Cum. GPA 3/4
Master Thesis
"Investigation of the Numerical Modelling of Sediment Transport and Morphological Changes in the Nile River."
- **B.Sc. in Water and Environment Engineering - Civil Engineering (2009-2014)**
Graduation May 2014, Faculty of Engineering, Cairo University, Cum. GPA 3.4/4
Graduation project 2013-2014
"Shoreline Modelling and Design of Protection Works at Ras El-Bar, Damietta."
"EIA Study for Protection Works at Ras El-Bar, Damietta."

Experience

Applied Studies (HRI-Egypt)

- Hydrodynamic physical/numerical studies for the proposed rehabilitation of AlBagouria Barrage and the discharge bypass during the rehabilitation works.
- Morphological numerical study for bank modification at the new intake of Assiut Supercritical Power Plant.
- Hydrodynamic numerical study for R.O. Plant of 20,000 m³/d capacity Extendable to 40,000 m³/d at Port Said.
- Morphological numerical study for Beni-Suef Power Station.
- Morphological numerical study for the cofferdams of the new intake and outfall of Cairo West supercritical power station.

- Morphological and Hydrothermal numerical studies for the extension of Cairo West supercritical power station consulted by PGESCO.
- High-resolution hydrodynamic numerical study for the new intake of Cairo West supercritical power station consulted by PGESCO.

Applied Studies in Coastal Modelling (freelance/subcontract)

- Extension of Al-Jubail Desalination Plant: Sediment dispersion modelling to the plumes resulting from trenching and backfill works, KSA.
- Protection of Al-Azizya Palace Sea Front: Assessment of protection methods that provide a sustainable design for the beach to be stable with minimal erosion at Khobar, KSA.
- Hydrodynamic, dispersion, and wave propagation studies for Yanbu, Ras-Mohaisen power and desalination plants, and AlShouiaba-5 desalination plant, KSA.
- Oil Spill Contingency Plan at Al-Yassat Island: Oil spill dispersion modelling and tracking fate towards an existing water intake, UAE.
- Hail and Ghasha Artificial Island Construction Project: Offshore modelling of disposed dredge material in access channel (PPA channel) for the Oil Industry, Hail and Gasha, UAE.
- Hail and Ghasha Artificial Island Construction Project: Flushing study and hydrodynamic modelling of a wedge between causeways connecting HLE Islands, UAE.
- Development and Upgrading of Abu Dhabi Coastlines Project: Hydrodynamic and Morphodynamic Modelling for the impact of design alternatives at seven sites along the Abu Dhabi coastline, UAE.
- Hydrodynamic and Morphodynamic Modelling of new fishery port and cornish road at almenia/aldenia, Lebanon.
- Water Plant Shore Intake on Tigris River: Modelling of morphodynamics to assess the efficiency of a sand trap attached to the intake, Iraq.
- Damietta Port Upgrading: Modelled hydrodynamics and sediment transport to examine mitigation measure alternatives for the sedimentation in the main access channel (navigation), Damietta, Egypt.
- AbuQir Dredging Works Project: Wave and Hydrodynamic Modeling for the Development of and the impact of additional reclamation area at the AbuQir Port, Alexandria, Egypt.

Consultant Office Project (Part-time)

- Geodatabase of Giza, Egypt water and wastewater infrastructure.