

Personal Information

Name
Mohammed Ali Hamed Ghareeb

Title
Researcher - Civil Engineer

Date of Birth
6/12/1980

Nationality
Egyptian

Civil Status
Married

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Education

- **Ph.D.** in Civil Engineering, Ain Shams University, Egypt, 2016.
- **M.Sc.** in Civil Engineering, Ain Shams University, Egypt, 2010.
- **B.Sc.** In Civil Engineering, Shoubra Faculty of Engineering, Benha University, Egypt, 2003. With general grade Very Good with honor degree.

Key Qualification

Mohammed Ali is a Senior Researcher in Nile Research Institute (NRI), Egypt. Now, Mohammed is a lecturer at Delta Higher Institute of Engineering and technology at Mansoura. Mohammed awarded his M.Sc. and Ph.D. degrees in Civil Engineering from Faculty of Engineering, Ain Shams University. Mohammed has a very good experience in many fields related to water resources such as inland navigation, sediment transport, remote sensing, GIS and hydrodynamic modelling. In addition, he has a good experience in land and hydrographic survey, acquired it during several survey missions along the Nile River and Lake Nasser. Also, he has a good experience in design of concrete structure acquired it when work as a structural engineer for two years. Also, he has a good experience in programming.

Computer Skills

- **AutoCAD.**
- **SMS 12;** Surface Water Modelling System (SMS).
- **Delft3D;** used for modelling of rivers, lakes, coastal waters and estuaries.
- **MATLAB.**
- **7CS tools;** Used for creation of electronic navigation charts (S-57).
- **Surfer;** contouring program.
- **ArcMap;** with the ability to create Python scripting used to create and automate GIS workflows quickly and easily.
- **Hypack Max;** program used in hydrographic surveying.
- **QINSy;** program used in hydrographic survey.
- **SAP 2000, ETABS, SAFE;** Structural Analysis Programs.
- **Microsoft office;** MS Excel, MS Word, MS Power Point.

- **Programming languages;** Visual Basic, Visual Basic for Application (VBA in Excel and AutoCAD), python.
- Development of computer programs for limit state design of RC members following the Egyptian Code of Practice.
- Development of computer program for analyzing structures using finite element method using Visual Basic for Application (VBA) in MS Excel.
- Development of computer programs for Automation of AutoCAD drawings using VBA.
- Development of program using python to automate run of HEC-HMS.

Languages

- **Arabic;** Mother Tong language
- **English;** Very good writing and speaking

Professional Experience

Delta Higher Institute for Engineering and Technology

- **Current Position:** Lecturer (Feb. 2020 till now)
- **Teaching of the following courses:**
Maps, GIS, and Remote Sensing
Engineering Surveying

Nile Research Institute (NRI)

- **Current Position:** Researcher
- **Previous Positions:** Assistant Researcher (July 2010 till May 2016)
Research Assistant (December 2003 till July 2010)
- **Responsibilities:** Senior Researcher.
Hydrodynamic Modeler.
Instructor.
Senior Hydrographic Surveyor.
- **Projects:**

2019: Study of the effect of dredging alternatives on water surface elevation of Rossitta Branch.

2019: Scour Protection design around Imbaba bridge piers.

2018-2019: Study of Future change of Nile bed at the proposed location of third metro line.

2018: Annual field mission for High Aswan Dam Reservoir Monitoring.

2016-2017: Enhanced Water Resources Management Project – Egypt.

2016: Creating electronic Navigation Charts (S-57) for the Nile River.

2015-2016: Nile river Bank Protection Project.

2010–2014: Lake Nasser / Nubia Management Framework Project (LNNMF), funded by World Bank

2010–2013: Tiger Project, funded by European Space Agency (ESA) to use remote sensing technology for studying Nasser Lake, under the title “Enhancement of sediment transport modelling of Nile basin reservoirs”.

2009: Watershed Management project, one of the eight fast track projects under Nile Basin Initiative (NBI).

2008: Annual field mission for High Aswan Dam Reservoir Monitoring.

- 2007–2009:** Water Resources Management System Using Real Time Water Quality Warning and Communication on the Nile River - NATO Science for Peace Project.
- 2006:** Evaluation of control points along Dammitta Branch.
- 2004 –2005:** Planning and design of Aids to Navigation (ATON) System on the Nile River.
- 2003–2010:** Rehabilitation of Nile Navigation path from Aswan to Mediterranean Sea (Main Nile and Dammitta Branch)
- 2003–2010:** National project for producing hydrographic maps of the Nile River.

Dar Altakhteet Engineering

- **Position:** deputy manager, (January, 2012 till 2018)
- **Projects:**
 - 2015-2016:** Greater Cairo Metro - Line 4
 - 2014-2015:** infrastructure projects located in Khulais, Rabigh and Yanbu El Bahr, KSA
 - 2014:** King Abdulaziz International Airport
 - 2012:** Detailed investigation to study the stability and dimensions of the tower-raft-foundation for OKAZ stadium, KSA.
 - 2012:** and structural design of some residential buildings – Jeddah, KSA.

Consulting Office for Development & Engineering (CODE)

- **Position:** Part-time structural Engineer.
- **Period:** April 2007 till May 2009.
- **Responsibilities:** structural analysis and design of the following projects:
 - 1- Residential Commercial Project, Buraidah - K.S.A
 - 2- Hail Residential parcel, Hail – K.S.A
 - 3- Panda Building, Buraidah - K.S.A

Training courses

- **Teaching Strategies for Higher Educational Faculties and Institutes**, organized by National Authority for Quality Assurance and Accreditation of Education (NAQAAE) at Delta Higher Institute for Engineering and Technology, Egypt, November, 2020.
- **Water Quality Modelling using Delft3D**, organized by Deltares at Coastal Research Institute, Egypt, February 2016.
- **Tailor Made course on Water Quality Monitoring**, UNESCO-IHE, Delft, the Netherlands, August 2015.
- **Coastal and Waves Modelling Using Delft3D**, organized by Deltares at Coastal Research Institute, NWRC, Egypt, June 2015.
- **Hydrodynamic and morphologic modelling for rivers and lakes using Delft3D**, organized by Deltares at Nile Research Institute, Cairo, Egypt, September 2014.
- **Research methods and skills**, organized by Maastricht school of management at national Water Research Center, 2014-2015
- **Hydrodynamic modelling for rivers and lakes using DHI MIKE 21**, Regional Training Sector for Water Resources & Irrigation, 6th of October City, Egypt, January 2012.

- **Advanced Earth Observation Methods in Water Management**, December, organized by European space Agency at South African National Space Agency (SANSA), Hartebeesthoek, North West Province, 2011.
- **Advanced Optical Remote sensing**, organized by European space Agency at Regional center for mapping of resources for development (RCMRD), Nairobi, Kenya, October 2010.
- **Basics of Earth Observation**, organized by European space Agency at Regional Training Sector for Water Resources & Irrigation, 6th of October City, Egypt, April 2010.
- **Web-Based database design and development**, Nile Basin Initiative, Eastern Nile Technical Regional Office (ENTRO), Addis Ababa, Ethiopia, July 2009.
- **2D hydrodynamic flow and sediment transport with SMS Mathematical model**, organized by Aquaveo at Nile Research Institute, Cairo, Egypt, May 2009.
- **Training on real-time water monitoring instrument**, Department of Environment and Conservation, St. John's NL, Canada, October 2007.

Scientific activities

Publications

- Ghareeb, M., Salama, R., & ElSherbini, S. (2022). Impact of the sustainable waterfront proposed development of Bani-Suif corniche on the hydraulics of the Nile River. *Ain Shams Engineering Journal*, 101845.
<https://doi.org/https://doi.org/10.1016/j.asej.2022.101845>
- Omar, M. E. M., Ghareeb, M. A., & Sherbini, S. El. (2022). Effectiveness of dredging and drains' treatment on water quality of Rosetta branch. *Environmental Engineering Research*, 27(1), 200520–200525. <https://doi.org/10.4491/eer.2020.525>
- Salama, R., Ghareeb, M., & El Sherbini, S. (2020). Increasing The Efficiency of The River Nile Western Branch at Warrak Island. *JES. Journal of Engineering Sciences*, 48(4), 577–595. <https://doi.org/10.21608/jesaun.2020.109371>
- Ghareeb, M. A., Salama, R. Bank shift and its effect on Nile Morphology [Poster]. 2nd Cairo Water Week, 2019, Cairo, Egypt
- Hamed, M. A. Estimation of Water Quality Parameters in Lake Nasser Using Remote Sensing Techniques. twentieth International Water Technology Conference, IWTC20 2017, Hurghada, Egypt, pp. 630-644.
- PhD Thesis, Mapping the Spatial Distribution of Water Quality Parameters in Lake Nasser Using Remote Sensing Technique, Faculty of Engineering, Ain Shams University, May 2016.
- Hamed M. A., Yousry M. M., Attia K., and El Bahrawy A. (2015). “The Use of Statistical Performance Measures in Validation of MERIS Case 2: Water Quality Processors in Nasser Lake, Egypt”. *Nile Water Science and Engineering Journal*, Vol. 8, Issue 2, 2015, pp. 65-77.
- Ali, M., Attia, K., El Bahrawy, A. (2010). Bed Form Types and Dimensions at El Ekhsas Gauge Station from Field Measurements, *Nile Basin Water Science & Engineering Journal*, 3 (3), pp. 14-25.
- MSc. Thesis, Study of Bed Form Development at Ekhsas Station at The Nile River, Faculty of Engineering, Ain Shams University, August 2010.

Conferences and Workshops

- 2nd Cairo Water Week, Egypt, 20-24 Oct 2019.
- 3rd Mediterranean water forum, Cairo, Egypt, 22-24 Jan 2018.
- Twentieth International Water Technology Conference IWTC 2017, Hurghada, Egypt, 18-20 May 2017.
- International forum on water scarcity and harvesting in arid and semi-arid areas, Hurghada, Egypt, 23-26 November 2015.
- Eighteenth International Water Technology Conference IWTC 2015, 12-14 March 2015, Sharm Elsheikh, Egypt.
- TIGER project Workshop 2013, titled “Achievements Review and Future Planning”, Tunis, 21-22 October 2013.
- The 26th Arab Engineering Conference Water Resources in the Arab Countries, Jeddah, KSA, 07-10 Jan. 2012.
- 2nd JH-HydroNet Symposium on the Nile River System and the Delta of Egypt, titled “Problems Facing Nile River System and Delta of Egypt”, German University in Cairo, New Cairo City, Egypt, 20- 21 March 2012.
- Tiger project Workshop 2011, titled “highlighting the status of the initiative almost 3 years after the beginning of its second phase”, Glenburn, Lodge, Swartkops, Muldersdrift, South Africa, 12-13 December 2011.

Awards

- Prize of Dr. Mohammed Gasser of the best research on The Nile River hydraulics, Ministry of Water Resources and Irrigation, Egypt, 2011.