

CURRICULUM VITAE

Name: Mohamed Ahmed Ahmed Freeshah



Affiliation: Ph.D. Scholar, State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University, Wuhan, Hubei, China.

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Present Position: PhD Scholar

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Academic Qualifications & Awards:

- 2017 uptodate: PhD** Scholar at State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University, China
 - 2018:** Star Lake Scholarship for scientific and technological innovation, sponsor by LIESMARS
 - 2018:** Cultural Promoter Award for outstanding contributions during 8th International GeoInformatics Summer School and 9th ISPRS Summer Student Seminar
 - 2017:** Finished Qualification pre-tests for **PhD**
 - 2016: M.Sc.** Geodesy and Surveying engineering, Title: "Using Gravity Satellites Data for Detecting and Monitoring Groundwater Aquifers in Egypt", Shoubra faculty of Engineering, Benha University.
 - 2016:** The most read publication from my department at Research Gate "Groundwater Storage Changes Detected from Gravity Recovery and Climate Experiment (GRACE) Data in Nile Delta Aquifer"
 - 2013:** Scholarship from Academy of Scientific Research and Technology for funding MSc, Egypt.
 - 2010: B.Sc.** Surveying Engineering Department, Shoubra Faculty of Engineering, Benha University, Egypt.
- Graduation Grade:** Excellent with Honors.

Brief Biography:

- **2017-2021: PhD** Scholar at State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University, China
- **2016-2017:** Assistant Lecturer, Department of Surveying Engineering, Shoubra Faculty of Engineering, Benha University.
- **2011-2016:** Demonstrator, Department of Surveying Engineering, Shoubra Faculty of Engineering, Benha University.

Jobs

- 2010-2011: Technical Support Engineer at Zone** for Engineering & Survey, Egypt.
- 2011-2012: Survey Engineer at Unicom Egypt** for Information Technology.
- 2011-2016: Teaching Assistant** at Shoubra Faculty of Engineering, Benha University, Egypt.

Areas of Interest:

- Travelling Ionospheric disturbances (TID) using dense GNSS networks.
- PPP: Precise Point Positioning by Using a Stand-Alone GNSS Receiver
- Using Variety Data Resources for Updating the Sea Level Changes
- Assessment of Coastal Flood due to Sea-level Rise.
- Using space geodesy to determine geoid and quasi-geoid.
- Using gravity satellites for detecting groundwater variation

Teaching Experience:

Lecture the following Surveying practical courses at the Department of Surveying, Shoubra Faculty of Engineering, Benha University:

- Classical Surveying (Geomatics Engineering), Terrestrial Surveying, Topographic Surveying
- Hydrographic Surveying.
- Classical Geodesy, Mathematical Geodesy, Satellite Geodesy
- Geographic Information Science (GIS).
- Geodetic & Field Astronomy
- Civil & Engineering Drawing.
- Roads & Railways Design
- Computer Applications.
- Specifications and Quantitative.
- Project Managements.
- Map Projection.
- Aerial Photogrammetry.
- Close Range Photogrammetry.
- Annual Graduation Project

Professional & Scientific Duties:

- 2018, 9-11 July:** a volunteer member in "2nd LIESMARS International Graduate Workshop in GeoInformatics " LIESMARS, Wuhan University, China
- 2018, 1-7 July:** a volunteer member in "8th International GeoInformatics Summer School and 9th ISPRS Summer Student Seminar" in LIESMARS, Wuhan University, China
- 2018, 20-24 June:** Internship in " Modern Geoinformatics Technologies and Engineering" HI TARGET Company, Guangzhou, China
- 2018, 31 March:** The Third Doctoral Forum: Experiencing China – Smart Wuhan University, Wuhan, China

- 2017:** a volunteer member in "1st LIESMARS International Graduate Workshop in GeoInformatics " LIESMARS, Wuhan University, China
- 2017-uptodate:** a volunteer member in "English Geoscience Café (EGSC)" in LIESMARS, Wuhan University, China
- **Coordinator** of the Annual Surveying Engineering Department Conference.
- **2014:** Participated as a volunteer "Technical support manager" of student's project Re Con of the Civilized Facade of El moez Street (ReCon) funded from Ministry of Higher Education (<https://www.youtube.com/watch?v=4j3T7nvDhs4>)
- **2014:** Participated in measuring and mapping the sea bed of Qaron Sea at Fayoum governorate by integrating GPS and Echo-sounder with traditional surveying tools.

Publications:

Xiaohong Zhang, Feng Zhu, Yuxi Zhang, **Freeshah Mohamed** and Wuxing Zhou. 2018. The improvement in integer ambiguity resolution with INS aiding for kinematic precise point positioning. Journal of Geodesy (2018). <https://doi.org/10.1007/s00190-018-1222-3>

M. Freeshah., A. El-Sagheer., M. Amin., and M. Refat. 2018. Towards Try to Archive the Groundwater Storage Variations Using GRACE and GLDAS Data Case Study: Nile Delta and Moghra aquifers in Egypt, AIABDA2018, Macau International Conference, Macau

El-Sagheer.A., Amin.M., Refat.M. and **Freeshah.M.** 2016. Groundwater Storage Changes Detected from Gravity Recovery and Climate Experiment (GRACE) Data in Nile Delta Aquifer. *ERJ-Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt.* Volume 29(2), July 2016.

Workshops / Conferences

- International Workshop on GNSS Ionosphere (IWGI2018), observations, advances and opportunities, November 4-6, 2018, Shanghai, China. (<http://202.127.29.4/geodesy/iwgi2018/>)
- IGS Workshop, October 2018, Wuhan, China
- International conference in advanced remote sensing, October 2018, Wuhan, China
- The Second International Workshop on GeoInformatics, LIESMARS, Wuhan, China, 2018
- AIABDA2018, Macau International Conference, Macau University, Macau
- The Third Doctoral Forum: "Experiencing China – Smart Wuhan University", LIESMARS, Wuhan, China, March, 2018
- The First International Workshop on GeoInformatics, LIESMARS, Wuhan, China, 2017
- The ISPRS Geospatial Week 2017, Wuhan, China
- The 10th International Symposium on Mobile Mapping Technology (MMT 2017), Cairo, Egypt
- DAAD workshop "How to write GERSS proposal?", 2016
- 3D Geospatial Data Application/Industries for Decision Making workshop, 2016
- Newton Mosharafa between institutions in Egypt and the UK, Egypt, 2016

- How to Write Erasmus+ Proposal workshop, American University in Cairo, Egypt, 2015
- Extraction of Digital Elevation Data from Satellite Images using IMAGINE Photogrammetry, 2015
- Riegl VMZ 2000 Hybrid Mobile and Terrestrial Laser Scanning System, 2015
- Geomakani 2015 “Geospatial Technologies Conference”, Dusit Thani Lake View Cairo Hotel, Cairo, Egypt, May 2015
- Inertial Navigation – State of the Art and Future Trends in Mapping and Navigation Applications, Ain Shams University, Cairo, Egypt, 2014
- DAAD Funding Programs and the offered Scholarships of “Alexander von Humboldt, 2014
- Fourth Arabian Conference for Astronomy and Geophysics, Cairo, Egypt, 2014
- Amid-East workshops about postgraduate studies and skills, Cairo, Egypt, (2015-2017)

Consultancies:

The most important projects:

- **2010-2011:** Supervision on surveying works on Cairo Festival City project
- a member in a surveying team for mapping Suez Thermal Power Station, The Oberoi hotel at sahl hashish, Hurghada
- Supervision on surveying works on oil pipelines of GASCO in Western Desert.
- **2011:** a member in a surveying team for producing 2d & 3d maps for Palestine Street at Jeddah, Kingdom of Saudi Arabia from laser scanner data
- **2012-uptodate:** a member in a surveying team for planning and mapping the Railway level crossing.
- **2013:** a member in a surveying team to perform the surveying works of the new runway of the Almaza airport.
- **2014-2017:** Consultant for City Survey Company, (Cairo-Egypt), for Photogrammetry, remote sensing, GPS and GIS works.
- **2014-2017:** a member in a surveying team for measuring and tracking settlement and cracks at Mountain View projects.
- **2015-2017:** a leader of a surveying team to connect the high voltage network stations over all Grand Cairo with underground cables 220 K.V.
- **2016-2017:** consultant engineer for surveying works (horizontal directional drill (HDD)) projects, El-Gamal Company for contacting.

PROFESSIONAL TRAINING

July 2007 El-Rehab city project (Talat Mustafa Group)
 July 2008 Madinty city project (Talat Mustafa Group)
 Sep 2009 Training in Egyptian Surveying Authority (Dokki, GIZA)

Knowledge of Languages:

- **Arabic:** native language.
- **English:** very good speaking, reading and writing.

Computer/Communication Skills:

- **Development Tools:** Matlab.
- **Image Processing and GIS:** Erdas Imagine, Imagine Photogrammetry, Arc GIS, Photo Modeler & Terra Explorer.
- **Laser Scanner Data:** Polyworks and JRC Reconstructor.
- **Gps Data Processing:** Trimble Business center & Leica Geo Office.
- **Drawings & Design:** Cad system, AutoCAD CIVIL 3d, Autodesk Land Desktop, Surfer & Microstation.
- **Others:** ICDL (International Computer Driving License).

Surveying Instruments

- Dealing with all surveying instruments (GPS, Total Stations and Levels)
- Processing all surveying data
- Dealing with Laser scanner instruments & processing data.
- Photogrammetric Workstations

PERSONAL HIGHLIGHTS

- Able to learn new tasks quickly
- Able to work and communicate well with people
- Highly motivated and a team player
- Skilled at leading and managing groups.

INTERESTS

Interested in:

- Research and Reading
- Internet navigation
- Swimming and Football

PERSONAL DATA

- **Date of birth:** 20/4/1986
- **Current Address:** State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University (Hubei, Wuhan, China, Postal Code: 430072)
- **Mobile:** +8615549448757
- **Marital status:** Married, 1 child