

## Prof. Eman M. Ghoneim

Department of Earth and Ocean Sciences  
University of North Carolina Wilmington  
601 South College Road  
Wilmington, NC 28403-5944  
Tel: 910 962-2795  
email: [ghoneime@uncw.edu](mailto:ghoneime@uncw.edu)

*Wikipedia* [https://en.wikipedia.org/wiki/Eman\\_Ghoneim](https://en.wikipedia.org/wiki/Eman_Ghoneim)

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### EDUCATION

Ph.D. 2002: Physical Geography, Faculty of Science, Southampton University, UK  
Mphil. 1999: Physical Geography, Faculty of Science, Southampton University, UK  
M.Sc. 1996: Geomorphology, Geography Department, Tanta University, Egypt  
B.A. 1990: Geography (with honors), Tanta University, Egypt

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### WORK EXPERIENCE

2019 - Pres: Professor, Dept. of Earth and Ocean Sciences, UNCW, USA  
2015 - 2018: Associate Professor, Dept. of Earth and Ocean Sciences, UNCW, USA  
2010 - 2014: Assistant Professor, Dept. of Geography and Geology, UNCW, USA  
2003 - 2010: Research Assistant Professor, Center for Remote Sensing, Boston Univ., USA  
2002 - 2013: Assistant Professor (on leave), Dept. of Geography, Tanta Univ., Egypt  
1997 - 2002: Ph.D. Postgraduate, Southampton Univ., UK  
1996 - 1997: Assistant Lecturer, Dept. of Geography, Tanta Univ., Egypt  
1990 - 1995: Demonstrator, Dept. of Geography, Tanta Univ., Egypt

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### HONORS/AWARDS

2019: Nomination to the UNC Board of Governors Award for Excellence in Teaching  
2018: UNCW Board of Trustees Excellence in Teaching Award  
2018: Research Leadership Award - University of North Carolina Wilmington  
2018: UNCW Distinguished Teaching Professorship Award  
2018: Egypt Can by the Nile Descendants (Egyptian Governmental Award)  
2017: UNCW Chancellor Excellence in Teaching Award.  
2017: Egyptian Women Can Empowerment Award. (Egyptian Governmental Award)  
2017: Women Leader in STEM recognition (Kuwaiti governmental Recognition)  
1997: Egyptian Government's Awarded Ph.D. Scholarship in UK  
1990: Tanta University Best Student of the Year Award

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### PROFESSIONAL AFFILIATIONS

– Director: Space and Drone Remote Sensing Lab (SDRS), UNCW

- Deputy Director: USGIF GEOINT Certificate at UNCW
  - Academic Editor, Remote Sensing Journal (2015 - Present)
  - Editor-In-Chief, International Journal of Remote Sensing Application (2013 - 2016)
  - Founding member of “Egypt Can Association” (2019)
  - Arab Integrated Water Resources Management Network AWARENET - United Nations Economic and Social Commission for Western Asia (UN-ESCWA) (2013 – Present)
  - Association of American Geographers (AAG)
  - Association of American Geographers Remote Sensing Specialty Group (AAG-RSSG)
  - Geological Society of America (GSA)
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## PUBLICATIONS

### A. Peer-Reviewed Publications:

31. Bratley, K., **Ghoneim, E.** 2018. Modeling Urban Encroachment on the Agricultural Land of the Eastern Nile Delta Using Remote Sensing and GIS-based Markov Chain Model. *Land* 7(4), 114.
30. **Ghoneim, E.**, El-Baz, F. 2018. Satellite image data integration for groundwater exploration in Egypt. Elbeih, S., Negm, A and Kostianoy, A (editors), *Environmental Remote Sensing in Egypt*, Springer (*in press*).
29. Mashaly, J., **Ghoneim, E.** 2018. Flash Flood Hazard Using Optical, Radar, and Stereo-Pair Derived DEM: Eastern Desert, Egypt. *Remote Sensing*. 10(8), 1204. (Special Issue)
28. **Ghoneim, E.** 2018. Rimaal: A Sand Buried Structure of Possible Impact Origin in the Sahara: Optical and Radar Remote Sensing Investigation. *Remote Sensing* 10 (6), 880.
27. Abrams, W., **Ghoneim, E.**, Shew, R., LaMaskin, T., Al Bloushi, K., Hussein, S., AbuBakr, M., Almulla, A., Al-Awar, M., El-Baz, F. 2018. Delineation of Groundwater Potential in the northern United Arab Emirates and Oman using geospatial technologies in conjunction with SAW, AHP and PFR techniques. *Journal of Arid Environment*, 157: 77–96.
26. El-Behaedi, R., **Ghoneim, E.** 2018. Flood Risk Assessment of the Abu Simbel Temple Complex (Egypt) based on High-Resolution Spaceborne Stereo Imagery. *Journal of Archaeological Science: Reports* 20: 458–467.
25. **Ghoneim, E.**, Dorofeeva, A., Benedetti, M., Gamble, G., Leonard, L., AbuBakr, M. 2017. Vegetation Drought Analysis in Tunisia: A Geospatial Investigation. *Journal of Atmospheric and Earth Sciences* 1(1-002), 1-9.
24. Robinson, C., El-Kaliouby, H., **Ghoneim, E.** 2017. Influence of Structures on Drainage Patterns in the Tushka Region, SW Egypt. *Journal of African Earth Sciences*, 136: 262-271. (Special Issue)
23. Aljenaid, S., **Ghoneim, E.**, Abido, M., AlWedhai, K., Khadim, G., Mansoor, S., EL-Deen, W., Abd Hameed, N. 2017. Integrating Remote Sensing and Field Survey to Map Shallow Water Benthic Habitat for the Kingdom of Bahrain. *Journal of Environmental Science and Engineering B* 6: 176-200.

22. Sosnowski, A., **Ghoneim, E.**, Burke, J. J., Hines, E., Halls, J. 2016. Remote regions, remote data: A spatial investigation of precipitation, dynamic land covers, and conflict in the Sudd wetland of South Sudan. *Applied Geography*, 69: 51-64.
21. Rogers, S., Benford, E., Kennedy, A., Austin M., and **Ghoneim, E.** 2015. Building Damage Analysis following Hurricane Ike on the Bolivar Peninsula, TX. Proc., Coastal structures and solutions to coastal disasters 2015: resilient coastal communities. American Society of Civil Engineers (ASCE), 161-171.
20. **Ghoneim E.**, Mashaly, J., Gamble, D., Halls, J., AbuBakr, M. 2015. The use of automated shorelines to assess the response of pre- and post-beach protection and projected shoreline change in the Rosetta Promontory, Nile Delta. *Geomorphology*, 228, 1-14.
19. **Ghoneim, E.**, Foody, G. 2013. Assessing flash flood hazard in an arid mountainous region. *Arabian Journal of Geosciences* 6 (4): 1191-1202.
18. AbuBakr, M., **Ghoneim, E.**, El-Baz, F., Zeneldin, M., Zeid, S. 2013. Use of radar data to unveil the paleolakes and the ancestral course of Wadi El-Arish, Sinai Peninsula, Egypt. *Geomorphology*, 194, 34-45.
17. Abdelkareem, M., **Ghoneim, E.**, El-Baz., F., Askawy, A. 2012. New Insight on Paleoriver Development in the Eastern Sahara. *Journal of African Earth Sciences*, 62 (1): 35 - 40.
16. Abdelkareem, M., El-Baz, F. Askalawy, M., Askawy, A., **Ghoneim, E.** 2012. Groundwater Prospect map of Egypt's Qena Valley using data fusion. *International Journal of Image and Data Fusion* 3(2): 169 – 189.
15. **Ghoneim, E.**, Benedetti, M., El-Baz, F. 2012. An Integrated Remote Sensing and GIS Analysis of the Kufrah Paleoriver, Eastern Sahara, Libya. *Geomorphology*, 139: 242 – 257.
14. Shaban, A., Hamzé, M., El-Baz, F., **Ghoneim, E.** 2009. Characterization of oil spill along the Lebanese coast by remote sensing. *Environmental Forensics Journal*, 10 (1): 51-59.
13. Gaber, A., **Ghoneim, E.**, Khalaf, F., El-Baz, F. 2009. Delineation of Paleolakes in Arid Regions Using Remote Sensing and GIS. *Journal of Arid Environments*, 73: 127-134.
12. **Ghoneim, E.** Ibn-Batutah: 2009. A possible simple impact structure in southeastern Libya. *Geomorphology*, 103 (3): 340-350.
11. **Ghoneim, E.** 2009. A Remote Sensing Study of Some Impacts of Global Warming on the Arab Region. In: Tolba, M and Saab, N. (edit), Report on Arab Environment: Climate Change the, The Arab Forum for Environment and Development (AFED), Chapter 3: 31-46.
10. **Ghoneim, E.** 2008. Optimum groundwater locations in the Northern United Arab Emirates. *International Journal of Remote Sensing*, 29 (20): 5879-5906.
9. **Ghoneim, E.**, El-Baz F. 2008. Mapping water basins in the Eastern Sahara by SRTM data. *IEEE* 1: 1- 4.
8. **Ghoneim, E.**, El-Baz, F. 2007. The application of radar topographic data to mapping of a mega-paleodrainage in the Eastern Sahara. *Journal of Arid Environments*, 69: 658-675.
7. El-Baz, F., **Ghoneim, E.** 2007. Largest crater in the Great Sahara revealed by multi-spectral images and radar data. *International Journal of Remote Sensing*, 28 (2): 451-458. (2007 Best Letter Award by RSPS).

6. **Ghoneim, E.**, Robinson, C., El-Baz, F. 2007. Relics of ancient drainage in the eastern Sahara revealed by radar topography data. *International Journal of Remote Sensing*, 28 (8): 1759-1772.
5. **Ghoneim, E.**, El-Baz, F. 2007. Dem-optical-radar data integration for paleo-hydrological mapping in the northern Darfur, Sudan: Implication for groundwater exploration. *International Journal of Remote Sensing*, 28 (22): 5001-5018.
4. Shaban, A., **Ghoneim, E.**, Hamzé, M., El-Baz, F. 2007. A post-conflict assessment to characterize the oil spill off-shore Lebanon by using remote sensing. *Lebanese Science Journal*, 8 (2), 75-85.
3. El-Baz, F., **Ghoneim, E.** 2006. Veiled crater in the eastern Sahara. *The Planetary Report*; XXVI (4): 10-15.
2. Foody, G., **Ghoneim, E.** Arnell, N. 2004. Predicting locations sensitive to flash flooding in an arid environment. *Journal of Hydrology*, 292: 48-58.
1. **Ghoneim, E.**, Arnell, N., Foody, G. 2002. Characterizing the flash flood hazards potential along the Red Sea coast of Egypt. *The Extremes of the Extremes: Extraordinary Floods*. IAHS Publ, 271: 211- 216.

## B. Conference Proceedings

55. Hefner, W., Tregaskis, K., Baker, S., Benfield, W., Canaday, J., Chahin, S., Sawyer, A., Ghoneim, E., And Leonard, L. Investigating the geomorphology of storm-induced overwash on Masonboro Island, NC from Hurricane Florence Abstract No. 327687. 2019.
54. Moore, R., Ghoneim, E., Wells, D., Zamora, P. Mapping submarine groundwater discharge using a thermal infrared sensor mounted on an unmanned aerial system in coastal North Carolina, USA. Southeastern Geological Society of America. Abstracts with Programs. Abstract No. 327468. 2019.
53. Canaday, J., **Ghoneim, E.**, Long, J., Leonard, L., Hawkes, A., Eulie, D. Integrating Very High-Resolution Satellite Imagery and Unmanned Aerial Vehicle Remote Sensing Techniques to Detect Changes on Barrier Islands Vegetation and Elevation After Hurricane Florence. American Association of Geographers (AAG), Abstract. April 2019.
52. Tregaskis, K., **Ghoneim, E.**, Schalick, A. Using Geospatial Technology to Model Future Water Yield in Tokar Delta of Khor Baraka, East Sudan. American Association of Geographers (AAG), Abstract. April 2019.
51. Moore, C., **Ghoneim, E.**, Zamora, P., Wells D. Detection of Submarine Groundwater Discharge Using Thermal Infrared Imaging from Multispectral and Unmanned Aerial System: Onslow Bay, NC. American Association of Geographers (AAG), Abstract. April 2019.
50. **Ghoneim, E.** Synthetic Aperture Radar Data Unveiled a Sandy Buried Large Circular Structure of Possible Impact Origin in the Great Sahara. American Association of Geographers (AAG), Abstract. April 2018.
49. Eure, S., **Ghoneim, E.**, Razai, F., Eltayeb, G. The Integration of Optical and Microwave Space Data to Locate Potential Sites for Groundwater Exploration in Eastern Sudan. American Association of Geographers (AAG), Abstract. April 2018.

48. Galloway, T., **Ghoneim, E.** Historical Shoreline Changes along the Nile River Delta: Implementation of Alternative Shoreline Stabilization Methods. American Association of Geographers (AAG), Abstract. April 2018.
47. Slocumb, J., **Ghoneim, E.**, Marsan, M., Loh, A., Detweiler, D. Using Geospatial Technology and Field Survey to Assess the Impact of Climate Change and Carbon Stocks on Coastal Wetlands, New Hanover County, NC. American Association of Geographers (AAG), Abstract. April 2018.
46. Bratley, K., **Ghoneim, E.** Modeling urban encroachment on the agricultural land on the Nile Delta using advanced geospatial technology. American Association of Geographers (AAG), Abstract. April 2018.
45. El-Behaedi, R., Gamble, D., **Ghoneim, E.**, Reber, E. Utilizing Remote Sensing to Monitor and Predict the Inundation of the Abu Simbel Temples, Egypt. Poster will be presented at the Society for American Archaeology (SAA). March 2017.
44. **Ghoneim E.** Integrative Remote Sensing, GIS and Hydrologic Modeling Techniques to Map Flood Inundation in Saudi Arabia. AAG, Abstract. April 2017.
43. Aljenaid S., Abido M., **Ghoneim E.**, Redha G. Assessing the Loss of Mangrove Vegetation and Associated Carbon Stock in Bahrain Using Remote Sensing and Geographic Information System. AAG, Abstract. April 2017.
42. AbuBakr, M., **Ghoneim E.** Applications of radar and thermal remote sensing to identifying renewable groundwater resources in Northern Sinai Peninsula: Implications to sustainable development. AAG, Abstract. April 2017.
41. Abrams W., **Ghoneim E.**, Shew R., LaMaskin T., Al-Bloushi K., El Baz F. Delineation of groundwater potential in the northern United Arab Emirates and Oman using geospatial technologies. AAG, Abstract. April 2017.
40. Sosnowski A., **Ghoneim E.**, Hines E., Blum J., Borrett S. Violent Conflict in Context: Deconstructing Spatial and Temporal Patterns in South Sudan. AAG, Abstract. April 2017.
39. Sosnowski A., **Ghoneim E.**, Crews K. Phenology based detection of conflict locations during the civil wars within South Sudan. International Symposium of Remote Sensing and Environment. May 2017.
38. **Ghoneim E.**, Groundwater exploration in the Western Desert of Egypt, a remote sensing investigation. AAG, Abstract. April 2016.
37. Narron C., **Ghoneim E.**, Leonard L., Aljenaid S., Rizk Z., Alshihi R., Marsan Y., Al-Awar M., K Al-Bloushi. Assessing the Impact of Climate Change on Temporal Variations in Coastal Wetlands in the UAE. AAG, Abstract. April 2016.
36. Suddreth D., **Ghoneim E.**, Loh A., Marsan Y. Using Remote Sensing and Field Survey to Investigate the Impact of Climate Change on Coastal Wetlands of Wrightsville Beach, NC. AAG, Abstract. April 2016.
35. Fletcher A., **Ghoneim E.**, El-Baz F., Al-Bloushi K., Rizk Z., Al-Awar M. Delineation of Potential Groundwater Recharge Locations Using Remote Sensing and GIS Techniques in the Northern United Arab Emirates. AAG, Abstract. April 2016.

34. Aljenaïd S, **Ghoneim E.**, Khadeem G., Abido M., Hameed A., Mohd W., Al-Wudaei K., Mansoor S., Nabi A., AlKhateem A. Integrating remote sensing and field survey to map Shallow Water Benthic Habitat for the Kingdom of Bahrain. AAG, Abstract. April 2016.
33. **Ghoneim, E.**, Narron, C., Hammam, E., Almeelbi, T., Ismail, I., Basahi, J., Hassan, I. Drought Risk of the Kingdom of Saudi Arabia using Geospatial Techniques. AAG, Abstract. April 2015.
32. Knoll R., **Ghoneim, E.**, Reber, Benedetti, M., Melomo, V., Beaman, T. Geospatial and Geophysical survey at Fort Caswell, North Carolina. AAG, Abstract. April 2015.
31. Sosnowski, A., **Ghoneim, E.**, Burke, J., Borrett, S., Hines, E., Maddlena, D. Spatio-temporal analysis of flooding extent employing a MODIS vegetation proxy in the Sudd wetland of South Sudan. AAG, Abstract. April 2015.
30. Mashaly, J., **Ghoneim, E.**, Gamble, D., Benedetti, M. Remote Sensing and GIS Techniques for the Assessment of Flash Flood Risk in Quseir, Red Sea Coast, Egypt. AAG, Abstract. April 2015.
29. Jakubcanin, A., **Ghoneim, E.**, Douglas, G., Benedetti, M., Leonard, L. Drought vulnerability assessment in Tunisia using remote sensing techniques. AAG, Abstract. April 2015.
28. Corben W., **Ghoneim, E.**, Mineralogical exploration and lithologic classification via spectral unmixing in Death Valley, Inyo county, California. Geological Society of America Abstracts with Programs. Vol. 46, No. 6, p.296. 2014.
27. Williams, E., Webster, D, **Ghoneim, E.** Species richness of bats along lakeshore habitats in western South Carolina. 99<sup>th</sup> ESA Annual Meeting, Aug 10-15. 2014.
26. **Ghoneim, E.**, Mashaly, J., Gamble, D. Assessing the response of pre- and post-beach protection and projected shoreline change in the Rosetta Promontory, Nile Delta. *Geological Society of America Abstracts with Programs*, Paper No. 39-6. 2013.
25. Abubakr, M., Zeineldin, M., **Ghoneim, E.**, El-Baz, F., Zeid, S. Identification of thermal anomalies in north Sinai, Egypt: implication to renewable groundwater accumulation. *Geological Society of America Abstracts with Programs*, Paper No. 54-10. 2013.
24. Elkhazmi, A., **Ghoneim, E.** Using remote sensing techniques and GIS systems for the study of structure analysis of the drainage basin of Wadi Zaza and natural vegetation cover in Al-Jabel Al Akhder area, eastern part of Libya. *Geological Society of America Abstracts with Programs*, Vol. 45, No. 7, p.865. 2013.
23. Mashaly, J., **Ghoneim, E.**, Assessing flash flood risk in the eastern desert, Egypt. *Geological Society of America Abstracts with Programs*, 45, No. 7, p.865. 2013.
22. **Ghoneim, E.**, Mashaly, J., Scher, E. Quantitative assessment of shoreline change and Potential land Loss due to sea level rise in the Rosetta Promontory, Nile Delta, Egypt. Geological Society of America Abstracts with Programs, Vol. 44, No. 7, p. 508. 2012.
21. Abubakr, M., El-Baz, F., Geriesh, H., Gabr, S., **Ghoneim, E.**, Zeineldin, M., Zeid, S. Paleo-channel delineation as an indication of groundwater accumulation in northern Sinai, Egypt. 2012.

20. Al Bloushi, K., Atekwana., E, Meju, M., **Ghoneim, E.**, El Baz, F. Investigating the source of thermal anomalies in the northern United Arab Emirates (UAE) desert using geophysical methods., International Conference on the Geology of the Arabian Plate and the Oman Mountains, UAE. 2012.
19. **Ghoneim, E.**, El-Baz, F., Benedetti, M. Mapping of the mighty Kufrah Paleoriver system in the eastern Sahara. Geological Society of America, Southeast Section, Wilmington, NC 2011. Geological Society of America *Abstracts with Programs*, Vol. 43, No. 2, p. 84 (SESSION CHAIR)
18. Abdelkareem, M., El-Baz, F., **Ghoneim, E.**, Akawy, A., Askalany, M. Mapping tectonic trends of wadi Matula, Egypt. Geological Society of America Abstracts with Programs, Vol. 43, No. 5, p. 599, 2011.
17. Abubakr, M, **Ghoneim, E.**, El-Baz, F. Remote sensing indications of potential renewable groundwater locations in arid lands. Geological Society of America Abstracts with Programs, Vol. 43, No. 5, p. 600.
16. Rose, N.S, **Ghoneim, E.** Assessing flash flood risk in Jeddah, Saudi Arabia utilizing space data and hydrological modeling. Geological Society of America Abstracts with Programs, Vol 43, No. 5, p. 141. 2011.
15. **Ghoneim, E.** Ancient mega rivers, inland deltas and lake basins of the eastern Sahara: A radar remote sensing investigation. Geological Society of America Abstracts with Programs, Vol 43, No. 5, p. 141. 2011. (SESSION CHAIR)
14. Abubakr, M., **Ghoneim, E.**, El-Baz, F., Zeineldin, M., Zeid, S. Use of radar data to unveil the structurally controlled paleolakes along the ancestral channel of wadi El-Arish, Sinai, Egypt. Geological Society of America Abstracts with Programs, Vol 43, No. 5, p. 141. 2010.
13. Abdelkareem, M., **Ghoneim, E.**, El-Baz., E., Askalany, M. Did Egypt's Wadi Qena drain northward during its earlier stages? Geological Society of America Abstracts, Vol. 42, No. 5, p. 645. 2010.
12. Abdelkareem, M., **Ghoneim, E.**, Askalany, M., Akawy, A., El-Baz, E. Data integration for mapping groundwater in the arid Wadi Qena region, Egypt. Geological Society of America Abstracts, Vol. 42, No. 5, p. 432. 2010.
11. Abubakr, M, **Ghoneim, E.**, El-Baz, E., Zeineldin M.Y. Salah, Z. Remote Sensing Data Integration and runoff Modeling to Estimate Flash Floods in El-Arish, Sinai, Egypt. Geological Society of America Abstracts, Vol. 42, No. 5, p. 316. 2010.
10. Al Bloushi, K., Atekwana., E, Meju, M., **Ghoneim, E.**, El Baz, F. Investigating the source of thermal anomalies in the northern united arab emirates (UAE) desert using geophysical methods. American Geophysical Union (AGU), Abstract #H51F-0812. 2009.
9. **Ghoneim, E.** and El-Baz, F. The Kufra Mega-Paleoriver System: Possible main source of the Great Sand Sea, eastern Sahara. Association of American Geographers (53) Annual Meeting, Boston, Massachusetts, Boston, Massachusetts, USA. 2008. (SESSION CHAIR)

8. Shaban, A., El-Baz, F., **Ghoneim, E.** Use of satellite images to study the oil spills along the Lebanese coast. *The 1<sup>st</sup> Pan-Arab Conference on Environmental Sciences and Technology*. Sharjah, UAE, March 11-1, p. 26. 2007.
7. **Ghoneim, E.** and El-Baz, F. Recognition of Ancestral Mega Lake in the Eastern Sahara from Space Data. Geological Society of America Abstracts with Programs. Paper No. 209-10. 2007.
6. Robinson, C., El-Kaliouby, H., Nabawy, B and E. **Ghoneim, E.** Influence of Structures on Drainage Patterns in the Tushka Region, SW Egypt. Geological Society of America Abstracts with Programs. Paper No. 97-11. 2007.
5. Robinson, C., Werwer, A., El-Baz, F., El- Shazly, M., **Ghoneim, E.**, El-Kaliouby, H. Remote sensing to support a better hydrogeological understanding of the Nubian aquifer system in the Western Desert of Egypt. Geological Society of America Abstracts with Programs, 38 (7): 564. 2006.
4. **Ghoneim, E.**, Ozdogan, M., Almulla, A., Koch, M., Ahmad, A., and El-Baz, F. Thermal anomalies in eastern Arabia: Implication to groundwater recharge. Geological Society of America Abstracts with Programs, 37 (7): 107. 2005.
3. Shaban, A., **Ghoneim, E.** and El-Baz, F. Hydrologic measures and characterization of the Lebanese coastal watersheds. The third International Conference on Wadi Hydrology. UNESCO, Sanaa, Yemen, p. 45. 2005.
2. **Ghoneim, E.**, Koch, M., and El-Baz, F. Modeling flash flood hazards in an arid region by remote sensing. International Geological Congress, Florence, Italy, 20-28 August. Abstracts part 2, Session 262, Paper 5, p. 1180. 2004.
1. El-Kaliouby, H., Robinson, C., and **Ghoneim, E.** Integrating exploration techniques for mapping the Nubian Sandstone aquifer in Egypt. Action plan for a joint Egypt/United states workshop. Cairo, Egypt, p. 35. 2003.

### C. Unpublished Reports

- 2018: Richard Lounsbery Foundation first report. Water resources in Eastern Sudan using geospatial technologies, 9 p.
- 2018: Egyptian Science and Technological Development (STD). New Approach to Identify Renewable Water Resources and Harvest of Rainwater for Sustainable Development in North Sinai. 17 p.
- 2013: Contributing author. Vulnerability Assessment of the MENA Water Sector: Review of Methodologies for the Integrated Assessment and Mapping of Socio-economic and Environmental Vulnerability, Adelphi, Germany, 60 p.
- 2011: Contributing author to the Final unpublished report. Building performance during hurricane Ike on the Texas, Bolivar Peninsula". Sea Grant North Carolina, 39 p.
- 2008: Contributing author to the Quarterly Progress Report. "Technical Support of Technology Park". Center of Remote Sensing, Boston University, 11 p.
- 2007: Contributing author to the Quarterly Progress Report. "Technical Support of Technology Park". Center of Remote Sensing, Boston University, 12 p.
- 2006: Contributing author to the Technical Report. "Using Satellite Images to study the Oil Spills of the Lebanese Coast". Collaboration between the National



- Council for Scientific Research Remote Sensing Center, Lebanon & Center for Remote Sensing- Boston University, 41 p.
- 2005: Contributing author to Final Report, 2005. "Use of Space Images for Groundwater Exploration in UAE". CRS, Boston University, 140 p.
- 2004: Contributing author to Third Annual Report. "Use of Space Images for Groundwater Exploration in the UAE". CRS, Boston University, 134 p.
- 2003: Contributing author to Second Annual Report. "Use of Space Images for Groundwater Exploration in the UAE", CRS, Boston University, 131 p.

## RESEARCH FUNDING

### A. Awarded: Total: 2,200,000 US Dollars (As PI and CoPI)

1. The Health Impact of Air Pollution in Egypt: A Geospatial Investigation. National Academy of Sciences (NAS), Dates: 01/01/2019-31/12/2022 **\$397,366, Ghoneim PI Pending.**
2. The response and recovery of adjacent natural and built coastlines impacted by Hurricane Florence. National Science Foundation (NSF), Dates: 11/01/2018-10/31/2019, Award **\$48,543** Lead PI Long J, **CoPIs**, Leonard L; Hawkes A; **Ghoneim E**; Eulie D.
3. Geothermal study in the Gulf of Suez, Egypt. Egyptian Cultural and Educational Bureau. Dates: 05/07/2018-05/07/2020, Award: **\$20,000, Ghoneim PI.**
4. University of North Carolina-Wilmington College of Arts and Sciences, Applied Learning Recovery Grant, 2018, Award: **\$500, Ghoneim, PI.**
5. University of North Carolina-Wilmington College of Arts and Sciences, e-Learning Program Online Course Development 2018, Award. **\$5000, Ghoneim, PI.**
6. Example for Integrated Solutions to Moderate the Vulnerability of Water Resources of Eastern Sudan to the Impacts of Climate and Weather Variability. Richard Lounsbery Foundation (RLF), Dates: 02/01/2017-05/31/2019, Award, **\$75,000, Ghoneim PI.**
7. New Approach to Identify Renewable Water Resources and Harvest of Rainwater for Sustainable Development in North Sinai. Egyptian Science and Technological Development Fund (STDF), Dates: 04/01/2017-12/01/2018, Award, **\$7,920, Ghoneim, PI.**
8. Using geospatial technology and field survey to assess the impact of climate change and carbon stocks on coastal wetland, New Hanover County, NC". University of North Carolina-Wilmington College of Arts and Sciences, Summer Undergraduate Research and Creativity Award (SURCA), Dates 2017, Award, **\$5000, Ghoneim, PI.**
9. University of North Carolina-Wilmington College of Arts and Sciences, Travel Grant, 2017, Award, **\$1000, Ghoneim, PI.**
10. UNCW e-Learning Program, Online Course Development, Dates 2017, Award, **\$5000, Ghoneim, PI.**
11. UNCW-eTEAL fund. Field Spectroscopy for Remote Sensing and Environmental Application, Dates 2015, Award, **\$3500, Ghoneim, PI.**
12. Using Geospatial Data to Assess the Risk of Shorelines Erosion and Sea Level Rise Along the Coastal Zone of UAE, Pilot Research Fund. Date 2016, Award, **\$2500, Ghoneim, PI.**

13. Applying satellite image data to groundwater exploration in Darfur, Sudan. University of North Carolina-Wilmington College of Arts and Sciences, Summer Research Initiative Fund. Date 2016, Award, **\$3500, Ghoneim PI.**
  14. Building Capacity of the Libyan National Oil Cooperation. Oil Caused Environmental Hazards in Libya. Libyan National Oil Cooperation (NOC), 02/01/2013-05/31/2015, Award, **\$77,000, Ghoneim PI.**
  15. Implementation of remote sensing, GIS and field techniques in support of advanced surface and subsurface mapping of Fort Anderson State Historic Site. Charles L. Cahill Award. Date 2014, Award **\$3000, Ghoneim PI.**
  16. Assessment and mapping of climate change vulnerability in the water sector in MENA region. Adelphi, Berlin, Germany Fund, Consultant 01/01/2012-07/01/2013, Award, **\$30,000, Ghoneim PI.**
  17. Evaluate Hurricane Ike Building Failures. North Carolina Sea Grant Fund, Dates 2011-2012, Award **\$33,046** Lead PI Spencer R. **Ghoneim Supporting.**
  18. Using Spatial Analysis Technology to Assess Coastline Change and Impact of Sea Level Rise on Nile Delta Rosetta Promontory. Charles L. Cahill Award, Date 2012, Award **\$2800, Ghoneim PI.**
  19. North Carolina Coastal Homeowner Perceptions and Attitudes about Climate Change and Sea Level Rise. North Carolina Sea Grant Fund Dates: 11/01/2010 – 06/30/2011, Award **\$8,000**, Lead PI Chris Dumas, **Ghoneim CoPI**
  20. A Remote Sensing investigation of Some Impacts of Global Warming on the Arab Region, AFED Fund, Dates: 01/01/2009-12/01/2009, Award **\$10,000, Ghoneim PI.**
  21. Influence of structures on drainage patterns in the Tushka region, southwest Egypt. National Science Foundation (NSF), Dates 01/01/2004-01/30/2008, Award **\$60,000**, Lead PI Robinson C. **Ghoneim, Junior Scientist.**
  22. Technical support of the Techno Park, Dubai, Unites Arab Emirates Fund, Dates: 01/01/2004-11/30/2009, Award **\$188,311.** Lead PI El-Baz, F, **CoPIs** Robinson C; **Ghoneim, E.**
  23. Use of space images for groundwater exploration in the Northern United Arab Emirates", Sharjah Electricity and Water Authority, United Arab Emirates Fund, 01/01/2001-06/30/2006, Award **\$1,747,476**, Lead PI El-Baz, F, **Ghoneim Principal Scientist.**
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### Invited Presentations

1. Invited Keynote speaker: 5th International Conference on Scientific Research ISR, Egypt, March 2019.
2. Invited Guest speaker: Women Leaders in Science, Technology and Engineering. Kuwait, October 2017.
3. Invited Guest speaker: Egyptian Women Can" Summit, Egypt. July 2017.
4. Invited Guest Speaker: Tanta University, Egypt, July 2016.
5. Invited Guest Speaker: Second Meeting of the RICCAR Vulnerability Assessment Working Group (VA-WG). Adaptation to Climate Change in the Water sector in the MENA region. Sponsored by United Nation-ESCWA, Lebanon June 25 – 28, 2013.

6. Invited Guest Speaker: 3-Meeting of the RICCAR Vulnerability Assessment Working Group (VA-WG) Adaptation to Climate Change in the Water sector in the MENA region sponsored by United Nation-ESCWA Jordan November 24-26, 2013.
7. Invited Guest Speaker: United Nation, Economic and Social Commission for Western Asia (UN-ESCWA), RICCAR workshop, Beirut, Lebanon. November 24– 26, 2013.
8. Invited Guest Speaker: United Nation, Economic and Social Commission for Western Asia (UN-ESCWA), RICCAR workshop, Beirut, Lebanon. July 2 – 6, 2012.
9. Invited Guest Speaker: Geography Department, UNC-Chapel Hill. Space Data Integration for Water Resource Exploration in Arid Lands, March 30, 2012.
10. Invited Guest Speaker, American University at Cairo (AUC). Greening the Sahara, December 25, 2011.
11. Invited Guest Speaker: Future University (FU), Greening the Sahara, December 16, 2011.
12. Invited Guest Speaker: University of Medical Sciences and Technology (UMST), Greening the Sahara, December 21, 2011.
13. Invited Guest Speaker: UNDP: Regional Consultation Meeting on the Climate Change Impacts in the Arab Region: Water Scarcity, Drought, and Population Mobility. Syria, September 15-16, 2010.
14. Invited Workshop Lead Scientist: American University at Cairo (AUC), Remote Sensing and GIS training course, June 12-17, 2010.
15. Invited Guest Speaker: The Arab Environment: Climate Change, the annual conference of the Arab Forum for Environment and Development (AFED), Beirut, November 19-20, 2009.
16. Invited Guest Speaker: The use of Radar space data for groundwater exploration in arid regions. National Authority of Remote Sensing and Space Science (NARSS), Cairo, August 10, 2009.
17. Invited Guest Speaker: Department of Geology, Faculty of Science, Suez Canal University, Egypt. August 25, 2008.
18. Invited Workshop Lead Scientist: Computer-Man Collage, Khartoum Sudan. August 6, 2008.
19. Invited Guest Speaker: Department of Geosciences Hamilton College, NY, US. December 5, 2007.

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### Biographical Listings, News Citations and Media

- 2018: The Nile Project short documentary film. UNCW production by UNCW – Office of University Relations. Movie Screening (March 2018).
- 2018: Scientists in 'Egypt Can 3' tackle water shortage crisis  
<http://www.egypttoday.com/Article/1/43771/Scientists-in-Egypt-Can-3-tackle-water-shortage-crisis>
- 2017: Associate Professor Eman Ghoneim Receives Egyptian Presidential Invitation to “Egyptian Women Can” Conference <https://uncw.edu/news/2017/07/associate-professor-eman-ghoneim-receives-egyptian-presidential-invitation-to-egyptian-women-can-conference.html>
- 2017: UNCW's Eman Ghoneim Selected to Attend 10th International Conference on Women Leaders in Science, Technology and Engineering.

- <https://uncw.edu/newsletters/cas/2018/01/uncws-eman-ghoneim-selected-to-attend-10th-international-conference-on-women-leaders-in-science,-technology-and-engineering.html>
- 2015: Egyptian TV show, Channel-1: <http://m.youtube.com/watch?v=k3vxH2YUYRc>
- 2014: 8 Egyptian Women Who Are Kicking Butt Abroad. In Scoop Empire. <http://scoopempire.com/8-egyptian-women-who-are-kicking-butt/>
- 2011: Kifarah well part of giant groundwater passage. Al-Masry Al-Youm Egyptian-press.
- 2010: 12 Million Egyptians to be Affected by Climate Change. In: Green Prophet.
- 2009: Marquis Who's Who in America, <https://cgi.marquiswhoswho.com/OnDemand/Default.aspx?lastname=Ghoneim>
- 2007: Boston University news release: "Space data unveils evidence of ancient mega-lake in northern Darfur", March 28.
- 2007: National Aeronautics and Space Administration (NASA): [Landsat Provides Evidence of Ancient Mega-Lake in Northern Darfur](#), March 29.
- 2007: NewScientist Environment, Special Report Earth: "Ancient mega-lake discovered in Darfur", April 12.
- 2007: [1,000 Wells for Darfur](#). EOS, Transactions American Geophysical Union, 88 (32), p. 318.
- 2007: Wikipedia, the free encyclopedia [http://en.wikipedia.org/wiki/Eman\\_Ghoneim](http://en.wikipedia.org/wiki/Eman_Ghoneim)
- 2006: Boston University news release: "Largest crater in the Great Sahara Discovered by Boston University scientists", March 3.
- 2006: Science News: [Crater in the Sand](#), March 6. 169 (10): 149.