

## Curriculum Vitae

# KAMAL SROGY DARWISH

Lecturer, Department of Geography

College of Arts, Minia University, Egypt.

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## EDUCATION

- **Professional Diploma in Remote Sensing and Geographic Information Systems**, Ain Shams University, Egypt & with cooperation of National Authority of Remote Sensing and Space Science (NARSS) (36 Credit hours) 2021: <https://www.journals.elsevier.com/the-egyptian-journal-of-remote-sensing-and-space-sciences/news/professional-diploma>
- **Doctor of Philosophy (Ph.D.) Degree in Geography with concentration of Remote Sensing and Geographic Information Systems**, Minia University, Egypt, 2017  
**Channel System Scholarship** (Geomatics Program, University of Florida, USA)  
Dissertation: Using Remote Sensing and Geographic Information Systems (GIS) Techniques in the Modeling, Assessing, and Analyzing of Sea-Level Change, Shoreline Retreat, and Coastal Erosion Hazard and Risk along Egypt's Nile Delta Coast. (First Grade of Honor)  
Dissertation Advisors: **Prof. Scot E. Smith** (University of Florida, USA), and **Prof. Magdy Torab** (Damanhur University, Egypt).
- **Master of Arts Degree (M.A.) in Geography**, Minia University, Egypt, March 2011  
Thesis: Sand Dunes Encroachment and Its Geomorphological Hazards of Mutt Area, Dakhla Depression, Western Desert, Egypt. (Excellent Grade)  
Thesis Advisor: **Prof. Magdy Torab** (Damanhur University, Egypt), **Prof. Osama Hussein** (Minia University).
- **Bachelor of Arts Degree in Geography (Land Surveying and Mapping Specialization)**, Minia University, Egypt, May 2005 (Very Good Grade of honor).

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## TEACHING EXPERIENCE

### Lecturer, (2018 – Until Now)

Geography Department – College of Arts - Minia University

**Courses:** Advanced Geographic Information Systems (Arabic& English), Advanced Remote Sensing (Arabic & English), Digital and Mobile Mapping, Geodetic Surveying, Digital Photogrammetry, Physical Geography (in English), Geomorphology (Arabic), Oceanography (Arabic and Topographic Mapping).

### Assistant Lecturer, 2011-2018

Geography Department – College of Arts - Minia University

**Courses:** Practical GIS using Esri ArcGIS software –Remote Sensing DIP using ERDAS Imagine & ENVI software – Plane and Topographic Surveying using: Total station – GPS – Leveling – Theodolite.

### Teaching Assistant, 2005-2011

Geography Department – College of Arts - Minia University

**Courses:** Practical GIS using Esri ArcGIS – Practical Remote Sensing using ERDAS Imagine – Plane and Topographic Surveying using: Total station – GPS– Leveling – Theodolite.

## RESEARCH EXPERIENCE

- **Research Scholar @ Geomatics Program**, University of Florida, USA from (January 1, 2014) to (December 31, 2016). Funded by the Egyptian Ministry of Higher Education.
- **Research Assistant Temporary Job @ Geomatics Program**, UF: UAV's Ocala Forest Change Detection Project (6 Months=2015). Directed by Prof. Scot Smith

## RESEARCH INTERESTS

- GIS Analysis, Modeling and Applications
- Remote Sensing Digital Image Processing
- Geospatial Technologies & Intelligence (GEOINT)
- Geomorphology
- Environmental Impact Assessment
- Natural Hazards & Disasters
- Natural Resource Management
- Land Use/Cover Change Detection
- Cartographic & Spatial Modeling
- Land Suitability Assessment
- Geoarcheology, Geoheritages and Geomorphosites

## Curriculum Vitae

### ▪ PUBLICATIONS ISI: (Citations = 70 , h-index= 2)

<https://scholar.google.com/citations?user=rKNhDZ4AAAAJ&hl=ar&oi=ao>

- **Kamal Darwish**, Scot E. Smith, Magdy Torab, Hesham Monsef, and Osama Hussein (2017) Geomorphological Changes along the Nile Delta Coastline between 1945 and 2015 Detected Using Satellite Remote Sensing and GIS. **Journal of Coastal Research** (JCR): An international scientific journal officially published by the Coastal Education and Research, Volume 33, Issue 4: pp. 786 – 794. <https://doi.org/10.2112/JCOASTRES-D-16-00056.1>
- Abd-El Monsef, H., Smith, S.E. & **Darwish**, K. Impacts of the Aswan High Dam After 50 Years, **Water Resources Management: An International Journal**, Published for the European Water Resources Association (EWRA), (2015) 29: 1873. <https://link.springer.com/article/10.1007/s11269-015-0916-z>
- **Darwish**, K: Sand Dunes Movement and Its Geomorphological Hazards of Mutt Area, Dakhla Depression, Western desert, Egypt”, Journal of the Egyptian Society of Environmental Change”. 2010, Vol2, 117-123.

### ▪ Professional SKILLS

- Professional skills in English Language (**IELTS**), and Arabic Language (Mother language).
- International Computer Driving License (**ICDL**) Certificate
- Advanced skills in **Digital Cartography, Web-GIS, Mobile Mapping, and Python Programing.**
- Professional skills in GIS software (**ArcGIS, ArcGIS Pro, Geomedia Pro, QGIS, Global Mapper**)
- Professional skills in Remote Sensing Image Processing Software’s (**ERDAS Imagine, ENVI, PCI Geomatica, and Idrisi**).
- Advanced skills in **AutoCAD Map, Adobe Photoshop, SPSS, and Surfer**
- Professional skills in **Sedimentology & Methods of Laboratory Sediment Sample Analyses, Digital Wireless Weather Station Measurements.**
- Professional skills in Modern Digital Land Surveying *Instruments* like; **Totalstation, Smartstation, DGPS, Auto-Level, Digital Theodolite, and 3D Laser Scanner.**
- + 30 advanced courses with certificates from Minia University in **Education Quality, University Teaching Professional Ethics, and Modern Teaching and learning Technologies.**

### ▪ SKILLS AND TRAINING COURSES

- Trainer of (GIS for Municipality Management Using ArcGIS & Geomedia Pro Software) course for Al-Ain City Municipality Engineers ( Al Ain city, UAE, 2010)
- Trainer of ERDAS IMAGINE for Undergraduate Students in Remote Sensing Courses, Geomatics Program, University of Florida, Gainesville, Florida, USA. 2015.

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- Online training of GIS-Application in Hydrology and Watershed Modeling for Civil Engineering Purposes 2020 (ArcGIS Pro).
- Online Trainer for Environmental Impact Assessment Using Remote Sensing Imagery.
- Online Trainer for Environmental Reports Preparation.

### CONFERENCE & Workshops

- **International Association of Young Geographers, the Center for Spatial Studies: spatial@ucsb.global2021:** Spatial Data Science for a Sustainable Future. University of California, Santa Barbara, **USA**. Poster Geomorphic Change Detection of the Coastal Lagoon Barriers along Egyptian Mediterranean Coast Using Geospatial Technologies June 2-3 2021.
- **International Geoinformatics Conference 2021: Virtually 29-31 March 2021.** Paper entitled Flash Flood Risk Assessment in the Eastern of El Minia Area, Egypt Using Satellite Remote Sensing and GIS. King Saud University <https://www.sgs-igc2021.com/> Oral Presentation
- **4th International Symposium & Field Workshop on Living with Landscapes, Dahab 1-5 of November 2020 Egypt:** Geoarchaeological Analysis of Tell El-Amarna Area, Middle Egypt Using Satellite Remote Sensing and GIS Techniques” Oral Presentation.
- **The Second International Scientific Conference in Geomatics (Smart Cities & Sustainability between Arab Countries):** Cairo, **Egypt** in June 22-24, 2019. Paper entitled Application of GIS and Remote Sensing in the detection and analysis of geomorphological and topographical effects on urban expansion in El Minia Area between 1989 and 2019. Oral Presentation
- **NIOF International Conference Coast to Ocean:** Priority Actions and Investments Bibliotheca, Alexandria, **Egypt**, February 12- 14, 2019. Shoreline Change Analysis and Coastal Erosion Hazard Assessment along the Northern Sinai Coast, Egypt Using Satellite Remote Sensing and GIS Techniques. Oral Presentation
- **12th International Conference of the African Association of Remote Sensing of the Environment Earth Observations and Geospatial Science in Service of Sustainable Development Goals:** Alexandria, Egypt in October 25-29, 2018: Poster: Surface Area Change Detection and Evaporation Loss Estimation in Lake Nasser, **Egypt:** A Remote Sensing and Geographic Information Systems (GIS) Approach.
- **XIX INQUA Congress:** Quaternary Perspectives on Climate Change, Natural Hazards and Civilization July 26 -August 2, 2015, in Nagoya, **Japan** : Poster ( Geomorphic Change Detection of Coastal Lagoon Barriers along Nile Delta coast)

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- **American Association of Geographers (AAG):** Annual Meeting in April 2014. Tampa, **USA:** Oral Presentation: Geospatial Analysis of Coastal Long Term Changes along Egyptian Mediterranean Coast.
- **April 2011:** The Third international symposium of Geography landscapes: Perception, understanding, awareness and action April 8-10, 2011, Bucharest, Rasnov, **Romania.** Monitoring Sand Dunes Encroachment in Dakhla Area using Landsat imagery and GIS Techniques.
- **November 2010:** The Third Symposium and Field Workshop on Living with Landscapes Aswan & Marsa Alam, **Egypt** 25th of October-1st of November 2010
- **November 2009:** 2nd Symposium and Field Workshop on Living with Landscapes Siwa, **Egypt** November 1-5, 2009
- **November 2008:** 1<sup>st</sup> Symposium and Field Workshop on Living with Landscapes Cairo and Serabit El Khadem – Southern Sinai, **Egypt** November 22-27, 2008.

### edX Web-Courses With Certificates

- **DRONES for Agriculture:** Prepare and Design Your Drone (UAV) Mission, Wageningen University & Research, Netherland

### Coursera for Web-Courses & Specializations with Certificates

<https://www.coursera.org/>

- **GIS Specialization:** University of California Davis. USA.
- **GIS, Mapping, and Spatial Analysis Specialization:** University of Toronto, Canada.
- **Spatial Data Science and Applications course:** Yonsei University, South Korea.
- **Maps and the Geospatial Revolution course:** The Pennsylvania State University. USA.
- **Geodesign: Change Your World:** The Pennsylvania State University. USA.
- **Ecosystem Services: a Method for Sustainable Development:** University of Geneva, Swith.

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### ▪ ESRI – GIS Completed Mooc & Web-courses

<https://www.esri.com/en-us/home>

- **The Location Advantage** 6 Weeks Completed in Jun 16, 2020
- **Spatial Data Science: The New Frontier in Analytics** 6 Weeks Completed in Apr 5, 2020
- **Do-It-Yourself Geo Apps** 4 Weeks Completed in Nov 28, 2019
- **Getting Started with Spatial Analysis** Completed in Oct 17, 2019
- **Going Places with Spatial Analysis** 6 Weeks Completed in Oct 17, 2019
- **Getting Started with Data Management** Completed in May 18, 2019
- **Getting Information from a GIS Map** Completed in May 17, 2019
- **ArcGIS Pro Basics** Completed in May 17, 2019
- **Earth Imagery at Work** 6 Weeks Completed in May 17, 2019
- **Cartography** 6 Weeks Completed in May 17, 2019
- **Getting Started with ArcGIS Pro** Completed in Feb 19, 2015
- **Migrating to the ArcGIS for Local Government Information Model** Completed in Dec 26, 2014
- **Preparing to Implement ArcGIS Online** Completed in Dec 26, 2014
- **Esri City Engine Essentials 2: Build the Foundation** Completed in Dec 26, 2014
- **Esri City Engine Essentials 1: Getting Started** Completed in Dec 26, 2014
- **Creating Web Applications Using ArcGIS Online** Completed in Jun 4, 2013
- **Authoring Web Maps Using ArcGIS Online** Completed in Jun 4, 2013
- **Sharing GIS Content Using an ArcGIS Online Subscription** Completed in Apr 14, 2013
- **Creating and Sharing Locator Packages (for ArcGIS 10.1)** Completed in Apr 14, 2013
- **Getting Started with GIS** Completed in Oct 7, 2012
- **Python for Everyone** Completed in Nov 22, 2012
- **Teaching with GIS: Introduction to Using GIS in the Classroom** Completed in Dec 14, 2011
- **Introduction to Arc Logistics 9.3** Completed in Dec 13, 2011
- **Working with ArcPad 7** Completed in Aug 27, 2011
- **Using Python in ArcGIS Desktop 10** Completed in Aug 27, 2011
- **Turning Data into Information Using ArcGIS 10.0** Completed in Aug 27, 2011
- **Mobile GIS: Using the ArcGIS for iOS Application** Completed in Aug 26, 2011
- **Mobile GIS: Creating Web Maps for Lightweight Mobile Apps** Completed in Aug 26, 2011

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- **Using ArcMap in ArcGIS Desktop 10** Completed in Aug 26, 2011
- **Introduction to Map Production System-Atlas** Completed in Aug 26, 2011
- **Introduction to GIS Data ReViewer** Completed in Aug 26, 2011
- **Introduction to ArcGIS 9 Geostatistical Analyst** Completed in Aug 26, 2011
- **Hazus-MH Overview and Installation** (ArcGIS 9.3.1/Hazus-MH MR5) Completed in Aug 26, 2011
- **Field GIS: Collecting and Editing Data Using ArcPad 10** Completed in Aug 26, 2011
- **GIS for Humanitarian Mine Action** Completed in Aug 26, 2011
- **Getting Started with GIS** (for ArcGIS 10.0) Completed in Aug 25, 2011
- **Getting Started with GIS** (for ArcGIS 9.2-9.3) Completed Aug 25, 2011
- **Editing in ArcGIS Desktop** Completed in Aug 25, 2011
- **Basics of Geographic Coordinate Systems** Completed in Aug 25, 2011
- **ArcGIS Data Interoperability Basics** Completed in Aug 25, 2011

### ▪ **Hexagon Geospatial and Brilliant Remote Sensing Labs (BRS-Labs) 16 Courses**

<https://remote-sensing-portal.com/> & <https://www.hexagongeospatial.com/>

#### Courses Of Remote Sensing Specialist Certificate.. RSS™

Course Name	Exam Date	Exam Duration	Score
1- Space Science and Satellites Overview for General Managers & Supervisors Online Training Course	06/04/2019	100 Minutes	Distinction
2- Remote Sensing Fundamentals Online Training Course	09/04/2019	100 Minutes	Distinction
3- Introduction to Practical Remote Sensing (Using ERDAS IMAGINE) Training Course & tutorial	13/04/2019	180 Minutes	Distinction
4- Satellite Images Geometric Correction and Map Projection Training Course & tutorial (Using ERDAS IMAGINE)	17/03/2020	165 Minutes	Distinction
5- Satellite Images Visual Interpretation Online Training Course	27/04/2019	140 Minutes	Distinction
6- Satellite Images Digitizing and Annotation Online Training Course & tutorial (Using ERDAS IMAGINE)	21/03/2020	140 Minutes	Distinction
7- Satellite Images Classification Essential Online Training Course & tutorial (Using ERDAS IMAGINE)	24/03/2020	90 Minutes	Distinction
8- Satellite Images Classification (Advanced) + Image Differencing Training Course (Using ERDAS IMAGINE)	28/03/2020	70 Minutes	Distinction
9- Map Production from Satellite Images Online Training Course & tutorial (Using ERDAS IMAGINE)	31/03/2020	85 Minutes	Distinction

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### Courses Of Remote Sensing Professional Certificate.. RSP™

10- Satellite Images Subsetting and Mosaicking Online Training Course & tutorial (Using ERDAS IMAGINE)	04/04/2020	120 Minutes	Distinction
11- Satellite Images Enhancement Training Course & tutorial (Using ERDAS IMAGINE)	11/04/2020	125 Minutes	Distinction
12- Satellite Images Terrain Analysis Online Training Course & tutorial (Using ERDAS IMAGINE)	14/04/2020	130 Minutes	Distinction
13- 3D viewing & Simulation For Satellite Images Using Virtual GIS Online Training Course & tutorial (Using ERDAS IMAGINE)	28/04/2020	200 Minutes	Distinction

### Courses Of Remote Sensing Solution Developer Certificate.. RSSD™

14- Solution Developer Level 1 Online Training Course & tutorial (Using ERDAS IMAGINE Spatial Modeler)	02/05/2020	110 Minutes	Distinction
15- Solution Developer Level 2 Online Training Course & tutorial (Using ERDAS IMAGINE Spatial Modeler)	05/05/2020	90 Minutes	Distinction
16- Solution Developer Level 3 Online Training Course & tutorial (Using ERDAS IMAGINE Spatial Modeler)	09/05/2020	120 Minutes	Distinction

### ▪ GRANTS AND FELLOWSHIPS

- **Ph.D. Joint-supervision Scholarship:** between Minia University and University of Florida, USA between 2014-2016. Funded by the Egyptian Ministry of Higher Education (MoHE).

### ▪ Non-certificates courses attended On-Campus (University of Florida, USA)

<https://flrec.ifas.ufl.edu/geomatics/>

- Geographic Information Systems (GIS3072C)
- GIS Fundamentals (SUR6934)
- GIS Analysis (GIS6116)
- Geospatial Analysis (GIS4121)
- Remote Sensing (SUR4380)
- Image Processing for Remote Sensing (SUR5386)

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### AWARDS AND HONORS

- **Minia University Prize:** For the Best Ph.D. Dissertation in Humanitarian Sciences in 2018.

### PROFESSIONAL MEMBERSHIPS

- **From 2005** High Board Member of the "Egyptian Geographical Society"
- **From 2008** Member of the " Egyptian Society of Environmental Change".

### NASA Applied Remote Sensing Training (ARSET) Online Webinar

- **Investigating Time Series of Satellite Imagery,** April 15-17, 2019

Trainers: Cynthia Schmidt and Amber Jean McCullum.

- **Remote Sensing of Coastal Ecosystems:** Aug 25th, Sep 1st, and Sep 8th, 2020
- **Hyperspectral Data for Land and Coastal Systems:** Jan 19th, 26th, & Feb 2nd, 2021
- **Mapping and Monitoring Lakes and Reservoirs with Satellite Observations:** February 9th, 16th, & 23rd, 2021
- **Introduction to Population Grids and their Integration with Remote Sensing Data for Sustainable Development and Disaster Management:** March30&April6,2021