



## Reda Amer

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### EDUCATION

May 2000

**B.Sc. Geology**, Faculty of Science/ Al-Azhar University (With Excellent Degree)

Apr 2005

**M.A. Remote Sensing**, Faculty of science/ Al-Azhar University

Jan 2007 - Present

**PhD. Geophysics (Environmental Geology)**, Earth & Atmospheric Sciences/ Saint Louis University

### RESEARCH INTERESTS

- Remote sensing
- Geographic Information Systems (GIS)
- Environmental Geology
- Structural Geology
- Groundwater modeling

### PROFESSIONAL EXPERIENCE

Jan 2007 - Present

**PhD Student.** Earth & Atmospheric Sciences/ Saint Louis University, St Louis, MO. USA

Apr 2005 - Dec 2006

**Assistant Lecturer.** Geology Department/ Faculty of Science/ Al-Azhar University, Egypt, Cairo

Dec 2001 - Apr 2005

**Teaching Assistant.** Geology Department/ Faculty of Science/ Al-Azhar University, Egypt,

	Cairo
<b>ADDITIONAL SKILLS</b>	
Language	<ul style="list-style-type: none"> <li>○ English, Fluent.</li> <li>○ Arabic, Mother tongue.</li> </ul>
Computer Skills	<ul style="list-style-type: none"> <li>○ Good user of the general software (Microsoft packages, Golden software, Adobe software).</li> <li>○ Specialized in: ENVI, ERDAS Imagine, and ArcGIS.</li> </ul>
<b>AWARDS</b>	
	<ul style="list-style-type: none"> <li>○ Recognition prize for Excellence and Academic Standing during the undergraduate study from Faculty of Science, Al-Azhar University.</li> <li>○ Recognized and announced as one of the 500 most superior students for the year in Physical Sciences in Egypt.</li> <li>○ Certificate of Academic Achievement and Excellence from the Egyptian Association of Scientific Professions.</li> <li>○ Scholarship from the Egyptian Government to continue my graduate studies in the United States.</li> <li>○ Certificate of Achievement in Research Excellence from Saint Louis University.</li> </ul>
<b>PUBLICATIONS</b>	
Journals Papers	<ul style="list-style-type: none"> <li>○ <b>Amer, R. M.</b>, Kusky, T.M., Ghulam, A., 2008. New Methods of Processing ASTER Data for Lithological Mapping: Examples from Fawakhir, Central Eastern Desert of Egypt. <i>Journal of African Earth Sciences</i> (in review).</li> </ul>
Conference Papers	<ul style="list-style-type: none"> <li>○ <b>Amer, R.</b>, Kusky, T., Ghulam, A., (2009). Image Processing and Analysis using ETM<sup>+</sup> Imagery for Lithological Mapping at Fawakhir, Central Eastern Desert of Egypt. <i>2009 ASPRS American Society for Photogrammetry and Remote Sensing Annual</i></li> </ul>

*Conference*, March 9 - 13, 2009, Baltimore, Maryland, USA.

Abstracts  
and  
Presentations

- **Galal, R. M.**, El Mezayen, A., Tolba, M. E., and El Alfy, Z., (2005). Hydrothermal alteration types within basement complex in the Central Eastern Desert-Egypt. **16<sup>th</sup> Phanerozoic and Development in Egypt symposium**. May 10<sup>th</sup>, 2005, Al-Azhar University, Nasr City, Cairo, Egypt.
- **Amer, R.**, 2007. Hydrothermal alteration zones in the Central Eastern Desert-Egypt using Remote Sensing techniques. **13<sup>th</sup> Annual Graduate Research Symposium**, March 30, 2007, Saint Louis University, Saint Louis, Missouri, USA.
- **Amer, R.**, Kusky, T., (2008). Groundwater Exploration in NW Sinai of Egypt using Radarsat and ASTER remote sensing and GIS. **Earth day**, April, 2008, Saint Louis University, Saint Louis, Missouri, USA.
- **Amer, R.**, Kusky, T., Ghulam, A., (2009). Using ASTER data for lithological mapping in arid and semiarid regions: Example from Fawakhir, Central Eastern Desert of Egypt. **2009 ASPRS American Society for Photogrammetry and Remote Sensing Annual Conference**, March 9 - 13, 2009, Baltimore, Maryland, USA.
- **Amer, R.**, Kusky, T., Ghulam, A., (2009). Groundwater Exploration in the Red Sea coast of Egypt using Landsat imagery. **15<sup>th</sup> Annual Graduate Research Symposium**, April 17<sup>th</sup>, 2009, Saint Louis University, Saint Louis, Missouri, USA.
- In addition to numerous other presentations in Egypt and here in the U. S., in all courses that I have studied in the Department of Earth's & Atmospheric Sciences, Saint Louis University.

Thesis

- Hydrothermal alteration types within basement complex in the Central Eastern Desert-Egypt using remote sensing techniques and GIS (2005). **Al-Azhar University, Nasr City, Cairo, Egypt.**

Dissertation

- Geoenvironmental and Structural Studies of the Red Sea Coast of Egypt for Developing

New Water Resources Using Remote Sensing and GIS (by 2010). **Saint Louis University, Saint Louis, Missouri, USA.** (in progress)

**Workshops and Trainings**

2003 **Natural fracture reservoirs:** Workshop for Graduate Students and Post-Doctoral Fellows. April 19-25, 2003, Geology Department/Faculty of Science/ Ain Shams University, Egypt.

- 2008
- **Preparing for an Academic Career in the Geosciences:** Workshop for Graduate Students and Post-Doctoral Fellows. July 31 – August 3, 2008, National Weather Center, University of Oklahoma, USA.
  - **ENVI Feature Extraction:** Workshop for Graduate Students and Post-Doctoral Fellows. September 27, 2008, Center For Environmental Sciences, Saint Louis University, USA.
  - **RADAR:** Workshop for Graduate Students and Post-Doctoral Fellows. October 1<sup>st</sup>, 2008, Center For Environmental Sciences, Saint Louis University, USA.

2009

- **Remote Sensing for ArcGIS Applications Using ENVI:** Workshop for Graduate Students and Post-Doctoral Fellows. February 12, 2009, Center For Environmental Sciences, Saint Louis University, USA.

**REFERENCES**

Dr. Timothy Kusky

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