



# Usama Zaineldeen

## Geologist

### Profile

Usama Zaineldeen is a Professor at the Department of Geology, Al Azhar University - Gaza. He has obtained his Ph.D. in structural geology and remote sensing in 2000. Since then, he has worked in the field of structural geology, tectonic, remote sensing, geomorphology and earthquake activity. He is the author of several articles in reputed journals. His work is focused in the areas of Dead Sea, Gaza Strip and United Arab Emirates

### CONTACT



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### EDUCATION

- **Ghent University, Faculty of Sciences, Department of Geology and Soil Science, Ghent, Belgium 1997 - 2000**  
Ph.D. in Structural Geology and Remote Sensing  
Thesis title: "Tectonic evolution in the Wadi Araba segment of the Dead Sea Rift, Southwest Jordan"  
Average grade: Greatest distinction
- **Ohio University, College of Arts and Sciences, Department of Geological Science, Athens, Ohio (USA) 1989 – 1991**  
M.Sc. in Structural Geology  
Thesis title: "The Geology of Dipper Harbour Area, Southern New Brunswick, Canada"  
Average grade: 3.63
- **University of Assiut, Faculty of Science, Geology Department, Assiut, U.A.R. (Egypt) 1980 – 1984**  
B.Sc. in geology  
Average grade: Very Good

### WORK EXPERIENCE

- **2014- Up to date**  
Professor at Department of Geology, Al Azhar University – Gaza.
- **2008- 2014**  
Associate Professor at Department of Geology, Al Azhar University-Gaza.
- **2000-2008**  
Assistant Professor at Department of Geology, Al Azhar University-Gaza.
- **1991-1997**  
Lecturer at Department of Geology, Al Azhar University-Gaza.
- **1991-1994**  
Lecturer at Department of Geology, Al Azhar University-Gaza.  
Lecturer at Department of Geology, Islamic University of Gaza.
- **1990-1991**  
Teaching Assistant (TA), Department of Geological Science, Ohio University, USA.
- **1985-1989**  
Demonstrator at Department of Geology, Islamic University of Gaza

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## AWARDS

- A Scholarship from the PEASE Program (1997) for Ph.D. study in Structural Geology and Remote Sensing at Ghent University, Belgium
- A Scholarship from AMIDEAST (1989) for master Degree in Structural Geology at Ohio University (USA)

## PERSONAL SKILLS

- Structural geology, neotectonics, paleoseismology, remote sensing
- Field experience in Cenozoic rift zone ( Dead Sea)
- Fold-and-thrust belt (Northern Oman Mountains, United Arab Emirates)

## LANGUAGE

ARABIC



ENGLISH



## HOBBIES

READING

SPORTS

TRAVEL

## ACTIVITY

- Dean of Admission and Registration (01/07/20018 – 18/11/2018).
- Assistant Vice President for Academic Affairs (26/09/2016 – 01/07/2018).
- Academic Editor, Journal of Scientific Research and Reports, SCIENCEDOMAIN international (19/04/2017 – Up to date) (<http://www.sciencedomain.org/journal/22/editorial-board-members>).
- Member of Planning and Quality Council, Al Azhar University – Gaza (November 2016 Up to date).
- Editor-in-Chief, Journal of Al Azhar University – Gaza (Natural Sciences) (29/10/2015 - 26/09/2016)
- Deputy Editor, Journal of Al Azhar University – Gaza (Natural Sciences), A Refereed Scientific Research Journal (15/02/2015 – 29/10/2015).
- Dean of Admission and Registration (30/08/2012 – 15/09/2014).
- Senior Advisory Board member of Arabian Geosciences Union (ArabGU).
- Assistant Vice President for Academic Affairs (13/09/2010 - 30/08/2012).
- Member of Editorial Board of Journal of Al Azhar University – Gaza (Natural Sciences), A Refereed Scientific Research Journal (Feb. 2010 – June 2012).
- Member of the Organizing Committee of ICBAS (The First International Conference on Basic and Applied Sciences (10-12 Oct., 2010).
- Head of the Department of Geology, Al Azhar University-Gaza (October, 2003 – October, 2007).
- Member of Editorial Board of Journal of Al Azhar University – Gaza (Natural Sciences), A Refereed Scientific Research Journal (July 2005 - July 2006).
- Head of the Department of Geology, Al Azhar University-Gaza (1996 -1997).
- Assistant of Head of the Department of Geology, Al Azhar University-Gaza (1994 -1996).
- Head of the Department of Geology, Islamic University of Gaza (1992 -1994)

## RESEARCH INTEREST

- Intraplate tectonic stress
- Intracontinental deformation
- Remote Sensing
- Brittle and ductile deformation
- Structural controls of sedimentary basins
- Active tectonics
- Earthquake activity
- Geomorphology

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## RESEARCH TOPICS

- Geology of Gaza Strip
- Tectonic of the Dead Sea Transform
- Tectonic of the United Arab Emirates
- Ancient and Late Cenozoic wrench rift zone (Dead Sea and other zones)
- Earthquake activity along the Dead Sea, Palestine
- Microtectonics and kinematics of the Dead Sea Rift, Palestine
- Microtectonics and kinematics of the Northern Oman Mountains, United Arab Emirates

## TRAINING COURSES

- “Use of Nuclear Technology in Hydrology” which hold in Amman, Jordan (12-22/08/1995)
- “The Sixth United Nation International Training Course on Remote Sensing Education for Educators” which hold at Stockholm University, Sweden (6 May – 14 Jun, 1996)
- “Nederlanden – Cyclus / Low Countries Studies” which hold at Gent University, Belgium (September – May, 1998)

## CONFERENCES

- 33<sup>rd</sup> Conference of the Arab Association of Collegiate Registrars and Admissions Officers (Arab-ACRAQ), 24-28 March 2013, Arab Academy for Science, Technology & Maritime Transport, Alexandria, Egypt.
- Earthquake and Tsunami Early Warning in the Eastern Mediterranean for the countries bordering the Dead Sea Fault, 5-6 November 2012, Larnaca, Cyprus.
- The second International Conference on Basic and Applied Sciences (ICBAS), 09-11 October 2012, Al Azhar University – Gaza, Gaza, Palestine.
- The first International Conference on Basic and Applied Sciences (ICBAS), 10-12 October 2010, Al Azhar University – Gaza, Gaza, Palestine.
- The 6<sup>th</sup> International Conference of the Geology of the Middle East, 20-23 March 2006, Al Ain, United Arab Emirates University.
- Gulf Seismic Forum 2005, 20-23 February 2005, Al-Ain, United Arab Emirates (U.A.E.).
- Geodynamics and Earthquake hazards in the Dead Sea – Red Sea Transform, 24-26 September 2001, Damascus, Syria.
- The first Stephan Mueller Conference of the European Geophysical Society (EGS). From Continental breakup to collision, 11-16 June 2000, Dead Sea.
- Active tectonic continental basins. Interaction between structural and sedimentary processes, April 30 – May 02, 1998, Gent, Belgium

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## SUPERVISION

- Supervisor (M.Sc.): "Hydrogeological Evaluation of the Aquifer in the southern part of the Gaza Strip, Palestine" Jihad Al-Dasht, Institute of Water and Environment, Al Azhar University – Gaza, Palestine (2012)
- Supervisor (M.Sc.): "Optimizing the Primary Collection of Solid Wastes in Khan Younis City, Gaza Strip, Palestine (Case study: New Neighborhood)" Omar Matar, Institute of Water and Environment, Al Azhar University – Gaza, Palestine (2017)

## PUBLICATIONS

- **Usama Zaineldeen**, Khalid Qahman and Jihad Al-Dash, 2014. Geological Structure of the coastal aquifer in the southern part of the Gaza Strip, Palestine. *Arabian Journal of Geosciences (Springer)*, v. 7, issue 10, 4343-4354.
- Z. Hamimi, A.S. El-Fakharani and **U. Zaineldeen**, 2014. Kinematic Analysis and paleostress reconstructions of Neoproterozoic to Neogene fractures in Al-Jamoum area, Saudi Arabia: tectonic implications for Western Arabia. *Gondwana 15 Conference, North meets South, Madrid (Spain). Program and Abstracts*, p. 77.
- **Usama Zaineldeen** & Abdel-Rahman Fowler, 2014. Structural style and fault kinematics of the Lower Eocene Rus Formation at Jabal Hafit area, Al Ain, United Arab Emirates (UAE). *Arabian Journal of Geosciences (Springer)*, v. 7, issue 3, 1115-1125.
- **Zaineldeen, U.**, 2013. Mapping the Dyke Swarms of the Neoproterozoic Basement in Southwestern Jordan Using Remote Sensing and GIS Techniques. *Earth Science Research (Canadian Center of Science and Education)*, 2, No. 1, 156-164.
- **Zaineldeen, U.** and Aish A., 2012. Geology, geomorphology and hydrology of the Wadi Gaza catchment, Gaza Strip, Palestine. *Journal of African Earth Sciences (Elsevier)*, 76, 1-7.
- **Zaineldeen, U.**, 2011. Tectonic Evolution of the Dead Sea Rift – Paleostress reconstruction of the Dead Sea structures. LAP LAMBERT Academic Publication, ISBN 978-3-8465-4927-6, 180 pp.
- **Zaineldeen, U.**, 2011. Paleostress reconstructions of Jabal Hafit structures, southeast of Al Ain City, United Arab Emirates (UAE). *Journal of African Earth Sciences (Elsevier)*, 59, 323-335.

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- **Zaineldeen, U.**, 2010. Palaeowind estimation of the cross-bedding within the aeolian Kurkar layers of the Gaza Formation, Gaza Strip, Palestine. *Geologia Croatica*, 63/1, 55-65.
- Anan, H.S. and **Zaineldeen U.**, 2008. Kurkar ridges in the Gaza Strip of Palestine. M.E.R.C. Ain Shams University, Earth Science Series, 22, 139-146.
- **Zaineldeen, U.** and Fowler, A., 2009. The structure of Wadi Ham area, Northern Oman Mountains, United Arab Emirates (UAE). *International Journal of Scientific Research*, United Arab Emirates University, 18, 65-74.
- **Zaineldeen, U.** and Fowler, A., 2009. Palaeostress reconstructions of the Wadi Ham Fault Zone, Northern Oman Mountains, United Arab Emirates. *International Journal of Scientific Research*, United Arab Emirates University, 18, 49-63.
- **Zaineldeen, U.**, 2008. Influence of the movement of the Dead Sea Fault on seismic activities. Symposium on Disasters Management and Safety of Buildings in Arab countries. Riyadh, Kingdom of Saudi Arabia, vol. 1, p. 67-78.
- **Zaineldeen, U.** and Fowler, A., 2007. Post-Early Eocene Folding and Faulting at Jabal Hafit, Southeast of Al Ain, United Arab Emirates. Second International Conference on the Geology of the Tethys, Cairo University, March 2007, P. 27-34.
- **Zaineldeen, U.**, Dalvaux, D. and Jacobs, P., 2002. Tectonic evolution in the Wadi Araba segment of the Dead Sea Rift, South-West Jordan. *European Geosciences Union (EGU), Stephan Mueller Special Publication Series*, 2, 63-81.
- **Zaineldeen, U.**, 2001. Spectral properties of the Neoproterozoic basement and the Palaeozoic cover units in the Aqaba – Wadi Rum Area, Jordan. Symposium on Geodynamics and Earthquake hazards in the Dead Sea – Red Sea Transform. Damascus, Syria.
- Delvaux, D., **Zaineldeen, U.**, Theunissen, K., Klerkx, J. And Jacobs, P., 2000. Strike-slip versus extension along continental transcurrent zones: The Western East African, Baikal and Dead Sea Rift Zones. The first Stephan Mueller Conference of the European Geophysical Society (EGS), From Continental Breakup to Collision, Program and Abstracts, p. 3.
- **Zaineldeen, U.**, Dalvaux, D. and Jacobs, P., 2000. Tectonic and palaeostress evolution in the Wadi Araba segment of the Dead Sea Rift, SW Jordan. The first Stephan Mueller Conference of the European Geophysical Society (EGS), From Continental Breakup to Collision, Program and Abstracts, p. 39.
- **Zaineldeen, U.**, Yan, N., Manuel, L.M., Nance, R.D., Diog, R. and Dallmeyer, R.D., 1991. Late Carboniferous sedimentation and tectonics in the Chance Harbour – Dipper Harbour area, southern New Brunswick, Canada. *Geological Society of America, Abstracts with Programs*, 23, 153.