

Sattam A. Almadani

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PERSONAL INFORMATION

Born: 23 May 1977; in Taif, Saudi Arabia

Nationality: Saudi Citizen

Married, one child

EDUCATION

PhD (2011) in Geophysics (3.32/4), Department of Geological Sciences & Engineering, Missouri University of Science & Technology (MST), Rolla, USA.

M.S. (2003) in Marine Physics (4.5/5), Department of Marine Physics, Faculty of Marine Sciences, King Abdulaziz University (KAU), Jeddah, Saudi Arabia.

B.S. (1999) in Marine Physics (3.58/5), Department of Marine Physics, Faculty of Marine Sciences, King Abdulaziz University (KAU), Jeddah, Saudi Arabia.

EMPLOYMENT

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| (2013 - present) | Assistant Professor , Geology & Geophysics Department, Faculty of Sciences, King Saud University, Riyadh, Saudi Arabia. |
| (2016 - 2017) | Director of Innovation Center , King Saud University, Riyadh, Saudi Arabia. |
| (2014 - 2016) | Vice Dean of the Faculty of Sciences , King Saud University, Riyadh, Saudi Arabia. |
| (2005 - 2006) | Recruitment Specialist , Human Resources Department, Siemens Ltd., Jeddah, Saudi Arabia. |
| (2003 - 2005) | Site Service Supervisor , Human Resources Department, Binzagr Lever Ltd., Jeddah, Saudi Arabia. |

RESEARCH INTERESTS

- Solid-earth geophysics.
- Investigate the structure and dynamics of the Earth's crust and mantle.
- Study the distribution of seismic activities.
- Explore the interior of the Earth.
- Crustal thickness and Poisson's ratio.
- Digital signal processing.
- Crustal deformation.

PEER-REVIEWD PUBLICATIONS

-- 2014 --

Almadani, S., Ibrahim, K., Abdelrahman, K., Al-Bassam, A., and Al-Shmrani, A. (2014). Magnetic and seismic refraction survey for site investigation of an urban expansion in Abha District, Southwest Saudi Arabia. *Arabian Journal of Geosciences*, DOI 10.1007/s12517-014-1342-x3

Reed, C., **Almadani, S.**, Gao, S., Elsheikh, A., Cherie, S., Abdelsalam, M., Thurmond, A., and Liu K. (2014). Reciever function constraints on crustal seismic velocities and partial melting beneath the Red Sea rift and adjacent regions, Afar Depression. *Journal of Geophysical Research: Solid Earth*, 119, 2138-2152, DOI:10.1002/2013JB010719

Almadani, S., Abdelrahman, K., Ibrahim, K., Al-Bassam, A., and Al-Shmrani, A. (2014). Site response assessment of an Urban extension ste using microtremor measurements, Ahud Rufeidah, Abha District, Southwest Saudi Arabia. *Arabian Journal of Geosciences*, DOI 10.1007/s12517-014-1380-4

Almadani, S., Al-Amir, A., Fnais, M., Hassanein, K., Ibrahim, K., and Abd El-Motaal, S. (2014). Evaluation of geotechnical parameters for urban site in southern Kamis Mushait city, southwest Saudi Arabia using seismic refraction method. *Arabian Journal of Geosciences*, DOI 10.1007/s12517-014-1615-4

-- 2015 --

Hisham A. Gahlan a., Shoji Arai, and **Sattam A. Almadani**. Petrogenesis of carbonated meta-ultramafic lenses from the Neoproterozoic Heiani ophiolite, South Eastern Desert, Egypt: A natural analogue to CO₂ sequestration (2015). *Journal of African Earth Sciences* 102-115, <http://dx.doi.org/10.1016/j.jafrearsci.2014.11.002>

Sattam Almadani; Abdullah Al-Amri; Mohammed Fnais; Kamal Abdel-Rahman Hassanein, Elkhedr Ibrahim; and Enayat Awad. Seismic Hazard Assessment for Yanbu Metropolitan area, Western Saudi Arabia. *Arabian Journal of Geosciences*, DOI 10.1007/s12517-015-1930-4.

Ali K. Abdel-Fattah, S. M. Mogren, and **Almadani, S.** Seismicity constraints on stress regimes along Sinia Subplate Boundaries. *Studia Geophysica et Geodaetica*. 60, 268-279, DOI: 10.1007/s11200-014-0968-1

-- 2016 --

Abdelbaset El-Sorogy, **Sattam Almadani**, and Mohammad Al-Dabbagh. Microfacies and diagenesis of the reefal limestone, Callovian Tuwaiq Mountain Limestone Formation, Central Saudi Arabia. *Journal of African Earth Sciences*, v. 115, pp. 63-70.

Abdelbaset S. El-Sorogy, Mohamed Tawfik, **Sattam A. Almadani**, and Abdullah Attiah. Assessment of toxic metals in coastal sediments of the Rosetta area, Mediterranean Sea, Egypt. *Environ Earth Science*, 75:398. DOI 10.1007/s12665-015-4985-3.

-- 2017 --

Sattam Almadani; Hussain Alfaifi; Mohammed Shehata; Elkhedr Ibrahim; Kamal Abdel-Rahman Hassanein; Abdullah Al-Amri; Mohamed Fnais; and Osama Kassem. Hydrochemical characteristics and evaluation of the granite aquifer in the Alwadeen area, Southwest Saudi Arabia. *Arabian Journal of Geosciences*, 10:139, DOI 10.1007/s12517-017-2873-8.

Sattam Almadani. Source parameters of the 27th of June 2015 Gulf of Aqaba earthquake. *Journal of Seismology*, DOI 10.1007/s10950-017-9651-7.

A.K. Abdelfattah, A. Al-Amri, A.K. Abd el-aal, Faisal K. Zaidi, M. Fnais, **S. Almadani**, and N. Al-Arifi. The 23 January 2014 Jizan earthquake and its tectonic implications in southwestern Saudi Arabia. *Tectonophysics*, (712-713) 494-502.

TEACHING COURSES

- Physical Geology (GEO 101)
- Principles of Geophysics (GPH 201)
- Oceanography (GEO 435)
- Geophysical Exploration (GPH 301)
- Field Geophysics (GPH 393)
- Graduation Project (GPH 497 & GPH 498)

FIELD WORK EXPERIENCE

- Install and service 18 broadband seismic stations along a 250 km profile in the Afar Depression, Ethiopia.
- Participate in field training by the Program for Array Seismic Studies of the Continental Lithosphere (PASSCAL) in Socorro, new Mexico, USA (2009).

COMPUTER SKILLS

- UNIX operating system
- FORTRAN programming language
- Generic Mapping Tools (GMT)
- Seismic Analysis Code (SAC)

SCIENTIFIC AFFILIATIONS

- Member of Saudi Society for Geosciences (SSG)
- Member of Society of Exploration Geophysicists (SEG)
- Member of American Geophysical Union (AGU)
- Member of Seismological Society of America (SSA)