

Dr. Abid Ali

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Education

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| • Kangwon National University, South Korea | Geophysics | Ph.D. | 2016 |
| • University of the Punjab, Pakistan | Applied Geology | M.Phil. | 2012 |
| • University of the Punjab, Pakistan | Applied Geology | B.S. | 2010 |

Research Interests

- Seismic site characterizations, seismic risk assessment, seismic microzonation, near-surface geophysics, seismic interpretation, GIS and mapping, micro-seismic imaging of fracturing, petroleum and structure geology, Landsliding, disaster risks estimation

Job History

- Assistant Professor at Institute of Geology, University of the Punjab 2020 – till date
- Senior Assistant Professor at Bahria University, Islamabad 2018 – Jan 2020
- Assistant Professor (IPFP) at Bahria University, Islamabad 2017– Jan 2018
- Research Assistant at Department of Geophysics, Kangwon National University, Korea 2013 – 2016

Research Projects

- A study on the crustal structure of the Korean peninsula using seismic interferometry 2015 – 2016
- Site classification for seismic-hazard assessment using geophysical methods in major cities (Chuncheon, Wonju and Gangneung) in Gangwon province, Korea 2013 – 2015

Research Funding

- Assessment of earthquake related construction parameters in Rawalpindi-Islamabad, Pakistan using active and passive methods under Pakistan Science Foundation Submitted OCT19
- Korea Meteorological Administration R& D program under Grant KMIPA 2015-7010 2015 – 2016
- Kangwon National University grant no. 120140226 2014 – 2015
- Korea Meteorological Administration R& D program under Grant CATER 2012-8040 2013 – 2015

Peer-reviewed Publications

- Ali, A., and Kim, K.Y., Comparative analyses of seismic site condition and microzonation of the major cities in Gangwon Province, Korea: *Exploration Geophysics*, **49**, 176-186.
- Ali, A., and Kim, K.Y., 2016, Seismic site conditions in Gangneung, Korea, based on Rayleigh-wave dispersion curves and topographic data: *Geosciences Journal*, **20**, 781-791.
- Kim, C., Ali, A., and Kim, K. Y., 2014, Site characterization using shear-wave velocities inverted from Rayleigh-wave dispersion curves in Wonju, Korea: *Geophysics and Geophysical Exploration*, **17**, 11–20.

- Masood A., Mahmood, S.A., Abuzar, M.K., **Ali, A.**, Mehta, A.M., and Shafiq, 2019, Evaluation of Fractal Dimension and Topographic Surface Roughness (Vertical Dissection) in Astore-Deosai-Skardu Region in GIS Environment Using ASTER GDEM: *Int. J. Econ. Environ. Geol.*, 10, 1-6.
- Ahsan, N., Miraj, M.A.F., Rehman, S.-U., and **Ali, A.**, 2013, Subsurface structural reconstruction of Joya mair structure, southeast Potwar sub-basin, Indus basin, Pakistan: *International Journal of Agriculture and Applied Sciences*, 5, 17–26.

Abstracts in Conferences

- Estimation of the seismic risk in major cities of Gangwon province, Korea using shear-wave velocities, **35th International Geological Congress (IGC), Cape Town, South Africa**, 27 August– 4 September 2016.
- Kim, K.Y., **Ali, A.**, Jung, J., and Kim, C., 2015, Site classification for seismic-hazard assessment using Assessment of seismic site conditions in Gangwon province, Korea using inverted shear-wave velocities, **2016 KSEG symposium, Seoul, Korea**, 12–13 April 2016.
- Preliminary results of the seismic microzonation and site characterization of three major cities of Gangwon province, Korea using Rayleigh-wave dispersion curves, **Near-Surface Asia Pacific Conference, Hawaii, USA**, 7–10 July 2015.
- Comparative analysis of the site characteristics and microzonation among three major cities of Gangwon-do, Korea using seismic surface wave data, **2015 KSEG symposium, Seoul, Korea**, 14–15 May 2015.
- Preliminary Results of Near-Surface Shear-Wave Velocity Models and Seismic Site Conditions in Gangneung, Korea Using Rayleigh-Wave Dispersion Curves, **AGU Fall Meeting 2014, San Francisco, USA**, 15–19 December 2014.
- Preliminary results of near-surface shear-wave velocities derived from inverting surface-wave dispersion curves in Wonju, Korea, **AGU Fall Meeting 2013, San Francisco, USA**, 9–13 December 2013.
- Near-surface Shear-wave Velocities in Chuncheon, Korea Derived from Passive Surface Waves, **Near-Surface Asia Pacific Conference, Beijing, China**, 17–19 July 2013.
- Preliminary results of V_s studies in Wonju city using the spatial autocorrelation method, **2013 KSEG symposium, Gwangju, Korea**, 10–11 October 2013.
- Subsurface structural analysis of Joya Mair using 2-D seismic reflection data in Eastern Potwar, Pakistan, **2013 KSEG symposium, Gwangju, Korea**, 10–11 October 2013.

Trainings, Short courses, and Workshops

- Geo-informatics Serve the Belt and Road” International Summer School 2019, **Changsha, China**, 18–24 August, 2019.
- Quantitative interpretation of geophysical data by **Prof. Yaoguo Li** (CGEM and Colorado School of Mines, US), Daejeon, South Korea, 18–22 July 2016.
- Seismic interpretation and reservoir modeling training on **Paradigm 15** using various modules: SeisEarth, Stratimagic, Vanguard, SKUA-GOCAD), Seoul, Korea, 26–29 May 2015.
- Shale gas technical workshop, Seoul, Korea, 2014, 14 October 2014.
- SEG Distinguished Instructor Short Course (DISC) by **Shawn Maxwell** on microseismic imaging of hydraulic fracturing-improved engineering of unconventional shale reservoirs, Daejeon, Korea, 2 October 2014.

- Integrated geophysical methods applied to geotechnical and geohazard engineering: from qualitative to quantitative analysis and interpretation by **Koichi Hayashi** (SEG 2014 Near Surface Honorary Lecturer), Chuncheon, Korea, 24 September 2014.
- 3D hydrocarbon exploration and quantitative seismic interpretation organized by **KSEG**, Daejeon, Korea, 26–29 August 2014.
- Petrel 2013 geophysics seismic visualization and interpretation training organized by **Schlumberger**, Seoul, Korea, 4–8 August 2014.
- Bridging the chasm between geophysics and reservoir engineering by **Xuri Huang** (SEG 2014 Honorary Lecturer), Seoul, Korea, 20 March 2014.
- Acquisition modeling: Expect the unexpected by **Carl Regone** (SEG 2013 Distinguished Lecturer), Anyang City, Korea, 4 December 2013.
- Earth velocity estimation–Bridge the gap of interdependency between geology and geophysics by **D.P. Sinha** (SEG 2013 Honorary Lecturer), Seoul, Korea, 9 May 2013.
- Understanding of earthquake prediction and hands-on training course organized by Korea Institute of Geoscience and Mineral Resources (**KIGAM**), Daejeon, Korea, 4–6 April 2013.

Awards/ Scholarships

- Bring Excellent Students to Kangwon National University (BEST-KNU) scholarship for PhD. It covered living expenses, health insurance, and tuition fee waiver.
- Merit scholarships during the studies for Bachelors and Masters
- Obtained first position and receive Gold Medal in matriculation

Memberships

- Society of Exploration Geophysicists (SEG)
- American Geophysical Union (AGU)
- Australian Society of Exploration Geophysicists (ASEG)
- Korean Society of Earth and Exploration Geophysicists (KSEG)
- Pakistan Association of Petroleum Geoscientists (PAPG)

References

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| • Prof. Ki Young Kim | Phone: +82-33-250-8584 | Email: kykim@kangwon.ac.kr |
| | Department of Geophysics, Kangwon National University, Korea | |
| • Prof. Hoonyol Lee | Phone: +82-33-250-8587 | Email: hoonyol@kangwon.ac.kr |
| | Department of Geophysics, Kangwon National University, Korea | |
| • Prof. Naveed Ahsan | Phone: +92-333-4242056 | Email: naveedahsan@ymail.com |
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