Dr. Mohammad Jahangir Khan

Personal Information

Experience 15 years (Academics, Management, Research) Dare of Birth 4 ⁴⁷ February, 1987 NationalTix: Pakistan N.I. of Citizenship 36601-9967536-9 Driving License: 36601-9967536-9 (575) Passport No : SM 4115362 National Taxation Number. 3883105-9 E-mail Address: : jahangir:khan99@gmail.com Official: asst.manager.ori@email.edu.pk Mobile Number : 0333-9939750, 0315-1203847 Social media links: www.researchgate.net/profile/Jahangir.Khan-9 orcid.org/0000-0003-3333-7091 occumexpert.org/expert/jahangir.khan www.linkedin.com/n/dr-m-jahangir.khan-18091221 Permanent Address: House 123/10 K-Block, Burewala, District Vchari, Ponjab Qualification Integrated Study on Seismicity of Southern Pakistan Major Domains S patria Data Mapping, Statistical Analysis, Cleophysical Data Interpretation, Earthquake Prediction University : Bahria University (Karachi Campus), Pakistan Session : Spraig 2016 to Fall 2021 Result : CGPA 3,83 / 4.0 Distinction : Integrated Study on Seismicity of Makran Region over 100 years Major Domains : Spraig 2016 to Fall 2021	<u>rersonar mior</u>			
N.I. of Citizenship:36601-9907536-9Driving License: 36601-9907536-9 (575)Pasport No:SM 4115362National Taxation Number: 3885110-9E-mail Address::johangi:khan99@gmail.comOfficial: asst.manager.oric@namal.edu.pkMobile Number:0333-9939750, 0315-1203847Social media links::www.researchgate.net/profile/Jahangir-Khan-9orcid.org/0000-003-3333-7091occanceypert.org/copert/jahangi:khanwww.linkedin.com/in/dr-m-jahangir-khan-18091221Permaent Address:House 123/10 K-Block, Burewala, District Vehari, Punjab Dalification :Integrated Study on Seismicity of Southern PakistanMajor Domains::Spatial Data Mapping, Statistical Analysis, Geophysical Data Interpretation, Earthquake PredictionUniversity:Bahria University (Karachi Campus), PakistanSession:Spring 2016 to Fall 2021Result::COPA 3.83 / 4.0Distinction:First PhD in Geophysics from BU; Honoured with 'Suma-Cum-Laude' Award Degree : MS Geo-Physics (Specialization: Seismology, Seismic and GIS)Thesis Title:Integrated Study on Seismicity of Makran Region over 100 yearsMajor Domains::Spatio Data Mapping, Interpretation of Seismic DataUniversity:Bahria University (Karachi Campus)Session:Frist Position holder, Merit ScholarshipDistinction:First position holder, Merit ScholarshipDistinction:First position holder, Merit ScholarshipDistinction<	-	•		
Passport NoSM 4115362National Taxation Number: 3885105-9E-mail Address: jahangir.khan99@gmail.comOfficial: asst.manager.oric@namal.edu.pkMobile Number: 0333-939750, 0315-1203847Social media links:www.researchgate.net/profile/Jahangir.khan-9orcid.org/0000-0003-3333-7091ocean expert.org/expert/jahangir.khan.9orcid.org/0000-0003-3333-7091ocean expert.org/expert/jahangir.khan.9orcid.org/0000-0003-3335-7091ocean expert.org/expert/jahangir.khan.9orcid.org/0000-0003-3335-7091ocean expert.org/expert/jahangir.khan.9orcid.org/0000-0003-3335-7091ocean expert.org/expert/jahangir.khan.9orcid.org/0000-0003-3335-7091ocean expert.org/expert/jahangir.khanjtstiret Vehari, Punjab Duffication Spatial Data Mapping, Statistical Analysis, Geophysical Data Interpretation, Earthquake PredictionUniversity: Bahria University (Karachi Campus), PakistanSession: Spring 2016 to Fall 2021Result: CGPA 3.83/4.0Distinction: First PhD in Geophysics from BU; Honoured with 'Suma-Cum-Laude' AwardUniversity: Bahria University (Karachi Campus)Session: Fall 2012 to Spring 2014Result: CGPA 3.544.0Distinction: First position holder, Merit ScholarshipPerev: Post-Graduat Diploma Remote Sensing and GISMajor Courses: Remote Sensing, GIS, Database & ProgrammingInstitution: National Center for Remote Sensing and GIS (ArcRG), SUPARCO, KarachiSession: March 2012 to Augus2 1012Term Projects: Satellite Interpreta		•		
E-nail Address:jabangir.khan99@@mail.comOfficial: asst.manager.oric@namal.edu.pkMobile Number:0333-9939750, 0315-1203847Social media links::www.researchgater.net/profile/Jahangir.Khan-9orcid.org/0000-0003-3333-7091oceanexpert.org/expert/jahangir.khanwww.linkedin.com/in/dr-m-jahangir.khan-18091221Permanent Address:House 123/10 K-Block, Burewala, District Vchari, PunjabDagree:Ph.D Geo-Physics (Specialization: Scismology & GIS)Thesis Title:Integrated Study on Seismicity of Southern PakistanMajor Domains:Spatial Data Mapping, Statistical Analysis, Geophysical Data Interpretation, Earthquake PredictionUniversity:Bahria University (Karachi Campus), PakistanSession:Spring 2016 to Fall 2021Result:CGPA 3.837.4.0Distinction:First PhD in Geophysics from BU; Honoured with 'Suma-Cum-Laude' AwardDegree:MS Geo-Physics (Specialization: Seismology, Seismic and GIS)Thesis Title:Integrated Study on Seismicity of Makran Region over 100 yearsMajor Domains:Spatio-Temporal Analysis, GIS Mapping, Interpretation of Seismic DataUniversity:Bahria University (Karachi Campus)Session:Fall 2012 to Spring 2014Result:CGPA 3.544.0Distinction:First position holder, Merit ScholarshipDegree:Rostfana Cheroper Seing and GIS (NCRG), SUPARCO, KarachiMajor Corress:Remote Sensing, and GIS (NCRG), SUPARCO, Karachi<	N.I. of Citizensh	ip: 36601-9967536-9	Driving License: 36601-9967536-9 (575)	
Mobile Number : 0333-9939750, 0315-1203847 Social media links : www.researchgate.net/profile/Jahangir-Khan-9 orcid.org/0000-003-3333-7091 occanserpect.org/expery/jahangir.khan www.linkedin.com/in/dr-m-jahangir-khan-18091221 Permanent Address: House 123/10 K-Block, Burewala, District Vehari, Punjab Outlification Degree : Ph.D Geo-Physics (Specialization: Seismology & GIS) Thesis Title : Integrated Study on Seismicity of Southern Pakistan Major Domains : Spatial Data Mapping, Statistical Analysis, Geophysical Data Interpretation, Earthquake Prediction University : Bahria University (Karachi Campus), Pakistan Session : Spring 2016 to Fall 2021 Result : CGPA 3.83 / 4.0 Distinction : First PhD in Geophysics from BU; Honoured with 'Suma-Cum-Laude' Award Degree : MS Geo-Physics (Specialization: Seismology, Seismic and GIS) Thesis Title : Integrated Study on Seismicity of Makran Region over 100 years Major Domains : Spatial University (Karachi Campus) Session : Fall 2012 to Spring 2014 Result : CGPA 3.544.0 Distinction : First position holder, Merit Scholarship Degree : Post-Graduate Diploma Remote Sensing and GIS (NCRG), SUPAR	Passport No	: SM 4115362	National Taxation Number: 3885105-9	
Social media links:www.researchgate.net/profile/Jahangir-Khan-9orcid.org/0000-0003-3333-7091oceanexpert.org/expert/jahangir.khanwww.linkedin.com/in/dr-m-jahangir.khan-18091221Permanent Address:House 123/10 K-Block, Burewala, District Vehari, PunjabDurification:Ph.D Goo-Physics (Specialization: Seismlology & GIS)Thesis Title:Integrated Study on Seismlicity of Southern PakistanMajor Domains::Spatial Data Mapping, Statistical Analysis, Geophysical Data Interpretation, Earthquake PredictionUniversity:Bahria University (Karachi Campus), PakistanSession:Spring 2016 to Fall 2021Result:CGPA 3.83 / 4.0Distinction:First PhD in Geophysics from BU; Honoured with 'Suma-Cum-Laude' AwardDegree:MS Geo-Physics (Specialization: Seismology, Seismic and GIS)Thesis Title:Integrated Study on Seismicity of Makran Region over 100 yearsMajor Domains:Spatio-Temporal Analysis, GIS Mapping, Interpretation of Seismic DataUniversity:Bahria University (Karachi Campus)Session:Fall 2012 to Spring 2014Result:CGPA 3.54.4.0Distinction:Natch 2012 to August 2012Term Profet:Satch for August 2012Degree:Mach 2012 to August 2012<	E-mail Address	: jahangir.khan99@gmail.com	Official: asst.manager.oric@namal.edu.pk	
occanexpert.org/expert/jahangir.khanwww.linkedin.com/in/dr-m-jahangir.khan-18091221Permanent Address:House 123/10 K-Block, Burewala, District Vehari, PunjabOugliffcationFilter (Comparing the Comparing the Comparison of Comparing the Comparing the Comparison of Comparing the Comparison of Comparing the Comparison of Comparison o	Mobile Number	: 0333-9939750, 0315-1203847		
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Trainings/Workshops/Certificate Courses

- Significance of Andragogy in Learning Process at HEI, Webinar Rashid Latif Khan Uni., NAHE-HEC, 30 Jun, 2025
- Effectiveness of Revised QA Framework in Institutional Development, Namal Uni., Mianwali, 21 Apr, 2025
- Professional Ethics and Productive Work Environment, Namal University, Mianwali, 19 Dec, 2024
- Grand Result Oriented Workshop (GROW), Aspire Group of Colleges, Lahore, 28 Oct, 2023
- GIS Applications in Hydrology using SuperMap, SuperMap Int., Bangladesh, 15 Nov, 2021
- Applications of GIS in Real World, E-Learning Institute of Geo-Informatics Technology, India, 11 Jul, 2021
- Applications of Remote Sensing & GIS in Hydrology, Institute of Science and Technology, Islamabad, 16-18 Jun, 2021
- Advance Earthquake Studies, National Center for Physics, Quaid-i-Azam, University, Islamabad, 10-11 Nov, 2020
- Advances in Geophysics and Earthquake Studies, 44th International Nathia Gali Summer College of Physics, National Center for Physics, Quaid-i-Azam University, Islamabad, 22-27 Jul 2019.
- Marine Geological Surveys & Coastal Environment, Chinese Geological Survey, China, 21 Sep to 11 Oct, 2019
- Current Earthquake Research, National Centre for Physics, Quaid-i-Azam, University, Islamabad, 24 Sep, 2018
- Faculty Retreat- Pedagogy, Bahria University Karachi Campus, 15-16 Aug, 2018
- GIS Applications in Urban Planning, Fed Urdu Uni. of Arts Science & Tech., 24 Apr, 2017
- Petroleum Production: The Bigger Picture, NED University, Karachi, 29 Dec, 2016
- Recent Advancements in Earthquake Engineering in South Asia, NED University, Karachi, 9-10 Aug, 2016
- Facilitators of Active Citizens, British Council, Karachi 18-22 Jan, 2016.
- Developing Industry Driven Technologies, PASTIC Pakistan Sciences Foundation, 7 Jan, 2015
- Research Guidelines, Learning Innovation Division, Higher Education Commission, 16-19 Jun, 2014
- Demonstration of Hydrographic Surveys, SV Behr Paima, Pakistan Navy, 7 Apr, 2014
- Integrated Remote Sensing and GIS Solutions, NCRG, SUPARCO, Karachi, 25-29 Mar, 2013
- Health Safety Environment (HSE), Mehran University of Engineering & Technology, Jamshoro, 16 Feb-10 Mar, 2013
- Demonstration Marine Geological and Geophysical Surveys, SV Behr Paima, Pakistan Navy, 28 Jan, 2013
- Anti- Plagiarism Measures in Research Pograms, Bahria University Karachi Campus, 13 Jul, 2012
- Use of Technology in Higher Education', Bahria Univ. Karachi Campus, 15-16 Aug, 2011
- Workshop of Teaching in Higher Education Master Trainers, NAHE Higher Education Commission, 1-4 Nov, 2010
- Training course on 'Contaminant Hydrogeology', Quaid-i-Azam University, Islamabad, 12-19 Nov, 2008

Distinguish Awards

- Best Performance Award [Academics & Campus Managements] Aspire College Burewala, 2022-23
- Best Performance Award [Admission Campaign & Marketing] -Aspire College Burewala, 2022-23
- Best Researcher Award (Faculty) -Bahria University, Karachi Campus, 2019
- Research Publication Cash Awards -Impact Factor/HEC recognized Journals, 2015-22
- HEC Faculty Award for International Study Tour to China -Beijing & Qingdao, September to October, 2019
- HEC Research Publication Cash Awards -International Conference at American University Sharjah, 2013
- Merit Scholarships -Ph.D course work (2016-17), MS (2012-15), M.Sc (2007-09), B.Sc (2004-06), Primary (1997)

Thesis (M.Sc., M.S and Ph.D)

- 1. Khan M. J., (2020). *Integrated Study on Seismicity of Southern Pakistan*. PhD Thesis. Department of Earth & Env. Sci. Bahria University (Karachi Campus) Karachi, Pakistan (Spring 2016-Fall 2021).
- 2. Khan M. J., (2014). *Integrated Study on Seismicity of Makran over 100 Years*. MS Thesis Department of Earth & Env. Sci., Bahria University Karachi Campus, Karachi, Pakistan (Fall 2012-Spring 2014).
- 3. Khan M. J., (2009). 2D Interpretation of Seismic Line GJN-52 and Rock Physics Characterization of Chorgali Formation. M.Sc. Thesis, Department of Earth Sci., Quaid-i-Azam Uni., Islamabad (Spring 2007-Fall 2008).

Experience

A) Administration/Management [2016- date]

- 1. Manager QEC -Namal University, Mianwali [19 May, 2025 – date]
 - Assistant Manager ORIC -Namal University, Mianwali [1 Nov, 2024 – date]
 - Principal -Aspire Group of Colleges (Burewala Campus) [1 Aug, 2022 – 31 Oct, 2024]
 - **Controller Exam** -Aspire College Burewala [1 Oct, 2022 – 31 Oct, 2024]
- 5. Academic Coordinator -Askari College of Education (BS Programs) [4 Aug, 2022- 31 Jan, 2023]
- 6. Editor

2.

3.

4.

- -BU Research Journal of Earth Science–BURJES [1 Dec, 2015 30 Aug, 2022]
- 7. **OA Coordinator** -Department of Earth & Environmental Sciences, BUKC [4 Jan, 2010 – 30 Aug, 2014]

Management Role / Duties Performed [October, 2009- October, 2024] A-1)

- 1. Manager QEC- Academic Audits, Member of IQC, Compliance to revised QA framework -PSG, RIPE & PREE
- 2. Assistant Manager ORIC- Assistance in management of activities towards Research, Innovation and Commercialization
- 3. Principal- Compliance to Policies, Standards and Guidelines of Aspire Group of Colleges at campus level
- 4. Campus Head- Supervision of Academics, Admission Campaign, Staff Management, Board Inspection, Vigilance.
- 5. Event Organiser- Social, Cultural events, PTMs, Public Awareness Seminars, Teachers Trainings, Blood Bank etc.
- Editor of Research Journal- Initiated and established Editorial office, Policies, and journal got HEC recognition. 6.
- 7. Head of Curriculum Development- New programs BS & MS in GIS & Remote Sensing as HEC guidelines
- 8. Member of Departmental Research Committee, Academic Committee and Exam Committee (2009-22)
- 9. Member of Quality Assurance (QA) Team- Annual Academic Audits of BS/MS/PhD programs (2010-22)
- Member of Curriculum Development- BS Environmental Sciences, Geophysics, Geosciences with specializations 10.
- Career Counsellor- Job / Internship Placement Coordination for BS and FSc Students (2017-20) 11.
- 12. University Event Organizer- Seminars, Symposia, Workshop, Earth Day, Water Day & Ocean Day (2010-21)
- 13. University Liaison Officer- Outreach/collaboration activities with other organizations/Industries (2011-14)
- 14. Community Services Coordinator- Created internship opportunities in industry and welfare projects (2013-22)
- 15. University Academic Coordinator- Set Timetable and Exam schedule for BS/MS/PhD Programs (2009-19)
- 16. Data Analyst - Prepared Departmental Data Presentations for Academic, Industrial, QA Audits, etc. (2012-22)
- Coordinator Orientation Session- Entrance Test and Interviews of fresh candidates BS/MS programs (2009-22) 17.
- 18. Admissions Advisor–Promotional activities (Webinars/Sessions on Social Media, Counselling with parents)
- 19. Lab In-Charge- Established GIS and Computer Lab, Trainings, Certificate Courses for students and industry (2016-22)
- 20. Invigilator- Midterm and Final Term Examinations (2009-2022)
- 21. Thesis Examiner- BS/MS Programs of Geophysics and Environmental Sciences

B) Teaching [2009-2024]

B-1) Faculty Member

- 1. Senior Assistant Professor Bahria University, Karachi Campus [Aug, 2018 Aug, 2022]
- 2. Senior Lecturer -Bahria University, Karachi Campus [May, 2014 – Jul, 2018]
- 3. Lecturer -National Center for Maritime Policy & Research [Oct, 2009 - Apr, 2014] Taught following courses to undergraduate (BS/MSc) and postgraduate (MS) classes at Bahria University
- ENV-714 GIS Applications in Environmental Sciences GEO-435 GIS & Remote Sensing
- ENV-105 Introduction to Climate Change
- ENV-465 Remote Sensing & GIS in Environments
- GEO-105 Physical & General Geology
- ENV-420 Research Methods in Environmental Sciences
- GEO-365 Earthquake Seismology
- GEO-335 Electrical & Radioactive Exploration Techniques
- B-2) Surveys Supervisor / Field Work Coordinator (Geophysical/Geological Field work) [2010-2022]
 - Magnetic Field Survey, various sites in Karachi city, Karachi coast, Mithi Thar Desert, and Kirana Hills, Chiniot
 - . Resistivity Survey (1D/2D) at various sites in Karachi city (Industrial towns, outcrops) and Islamabad city
 - Seismic Data Acquisition (Refraction) in outcrops of Mubarik village, Karachi
 - Mapping of Geo-hazard potential of coastal belt, Hammerhead, Gwadar
 - Marine Geological Survey of Karachi Coast onboard SV BEHR PAIMA (Courtesy: Pakistan Navy)
 - Geological study of Khewra Gorge, Nammal Gorge, Cape Monze, Sona Pass, Nangar Parkar, Thar Coal Blocks

- GEO-420 Hydrogeology
 - Thesis (GIS, Geophysics, Env Sciences)
- ESC-701 Research Methodology GEO-420 Research Methodology
 - **GEO-105** Introduction to Geophysics
 - PHY-110 Physics

Geological visit of Ling Shan Island- Slumping of Cretaceous bed along Qingdao Coast, China

B-3) Professional Trainer (Management, GIS & Remote Sensing software) [2014- to date]

- Training Workshop 'Newly Appointed Faculty Members', Askari College of Education, 23 Nov, 2023
 - Training Workshop 'Use of IT tools in Teaching Methodologies', Askari College of Education, 20 May, 2023
- Training course "Remote Sensing Applications in Marine Environments", 6 July, 2022
- Training course "Integrated Analysis Techniques of Remote Sensing & GIS" HDIP (Isb off.), 28-31 March, 2022
- Training course "Remote Sensing & GIS Applications in Minerals Exploration" PPL (Khi, off), 6-10 Dec, 2021
- Training course "GIS and Remote Sensing for Researchers" Bahria Univ. Karachi, 8-17 Sep & 4-8 Oct, 2021
- Training course "Applications of GIS in Multidisciplinary Sciences" Univ. of Sindh, 16-18 Oct, 2019
- Training course "GIS and Remote Sensing Solutions" PCSIR Complex, Karachi 6-28 Apr, 2019
- Training course "Learn GIS Applications in Earth Sciences" Bahria Univ. Karachi, 26-29 Aug, 2017
- Training course "Advance GIS Applications in Sciences" Bahria University Karachi 26-29 Jan, 2017
- Training course "GIS Solutions for Engineers and Scientists" Bahria University Karachi 4-8 July, 2016
- Training workshop "Learn ArcMap & SURFER for Mapping" Bahria University Karachi, 10-11 Dec, 2015
- Training course "GIS Solutions for Engineers and Scientists" Bahria University Karachi 20-24 Aug, 2015
- Training workshop "Getting to Know ERDAS IMAGINE and ArcGIS" NCRG, Karachi, 23-24 Aug, 2014

C) <u>Research</u> [Expertise: Integrated Research in GeoPhysics, GIS, Geology and Environmental Sciences]

C-1) <u>Research Papers</u> (Intentional/National Journals Ranked according to HJRS) [2013-2025]

- 1. Ali M., and **Khan M. J.**, (2025). *H*₂, *an innovative, sustainable, and renewable energy source*. Modelling Earth Systems and Environment. Submission ID: MESE-D-24-00663
- Rana, I. I., Rana, S. S., Saleem, R. M., Khan, M. J., Waheed, N., & Irfan, H. (2024). Prediction of flood and projection of crop depletion along the Satluj River section, Burewala. Social Science Review Archives, 2(2), 1957-1972. https://policyjournalofms.com/index.php/6/article/view/258_
- Rana, S. S., Rana, I. I., Khan, M. J., Habib, S., Saleem, R. M., Haroon, H. M., and Irfan, H. (2024). Predicting and Identifying Land Features utilising Remote Sensing and Machine Learning Technique. Kashf Journal of Multidisciplinary Research, 1(12), 17-35. https://kjmr.com.pk/index.php/kjmr/article/view/141
- Rana I. I, Saleem R.M., Khan M. J., (2024). Land Features Identification and Prediction of Crops in Burewala Using Machine Learning. J. of Comp. & Biomed. Info. vol.7 (1), 1-9. <u>https://jcbi.org/index.php/Main/article/view/407</u>
- Rana I. I, Saleem R.M., Khan M. J., (2024). Mapping and Temporal Analysis of Wheat Crop Using Remote Sensing Imageries Burewala, Pakistan. J. of Comp. & Biomed. Info. vol. 6 (2), 1-9 <u>https://jcbi.org/index.php/Main/article/view/279</u>
- 6. Khan H., A., Qadir S. A., **Khan M. J.**, Siddique F.,H., Ahsan M., S., (2023). *Modelling of geomorphological features* of fuvial systems in Eromanga Basin and North Sea using 3D seismic attributes. Journal of Earth System Science. 132:62 <u>https://doi.org/10.1007/s12040-023-02076-3</u>
- Khan H. A., Shahid A. A., Khan M. J., Zouaghi T., Alvarez M. D., Naqvi.S. D. M. (2023). Integration of Sequence Stratigraphic Analysis and 3D Geostatistical Modeling of Pliocene-Pleistocene Delta, F3 Block, Netherlands. Acta Geologica Sinica Acta Geologica Sinica-English Edition, 97(1), 256-268. https://onlinelibrary.wiley.com/doi/10.1111/1755-6724.14863
- Khan M. J., Ehsan S. A., Nisar U. B., et al., (2022). Delineating Weak zones in Limestone based on Borehole drilling and Electrical Resistivity Tomography. Kuwait Journal of Science, Vol.49 (4) ,pp 1-16 <u>https://journalskuwait.org/kjs/index.php/KJS/article/view/14773</u>
- Khan M. J., Bokhari S. R. F., Nisar U. B., Ali F., (2022). Integrated Geophysical and Geospatial approaches for delineating groundwater potential zones in Karachi, Pakistan. Earth and Planetary Science, vol. 1(1), 1-9. https://ojs.nassg.org/index.php/eps/article/view/520/552
- 10. Das, A., Nergis, Y., Abdullah Butt, J., Khan, M. J. (2022). Spatial-Temporal Re-Analysis of Seasonal Air Quality

Data in Karachi City. International Journal of Economic and Environmental Geology, 13(3), 38-44. https://doi.org/10.46660/ijeeg.v13i3.41

- 11. Khan H., A., Mehdi D., Abbas A., Khan M. J., Faisal M., Gabol M. F., (2022). An Integrated Evaluation Approach on Dry Hole Analysis of Ballat Anticline Naccowlah Block, Eromanga Basin, Oueensland, Australia. Geological Journal, vol. 57 (5), 1-13. https://onlinelibrary.wiley.com/doi/full/10.1002/gj.4468
- 12. Khan M. Y., Zaina F., Abedin u. Z., Tariq S., Khan M. J., (2022). Evaluation of risks to UNESCO World Heritage (WH) sites in Taxila, Pakistan using ground-based and satellite remote sensing techniques. Journal of Cultural Heritage, vol. 55, 195-209 https://www.sciencedirect.com/science/article/pii/S1296207422000644

13. Khan M. J., Lamessa G., Ali M., Khan M., (2022). An updated catalog of earthquakes for southern Pakistan and surrounding offshore region of Arabian Sea. Arabian Journal for Science and Engineering, vol. 47 (1), 601-617 https://link.springer.com/content/pdf/10.1007/s13369-021-05575-x.pdf

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- 27. Sarwar F., Anjum Z., Fatima N., Khan M. J., Jamil S. U., Mansoor F., Saleem A. R., (2019). Computing the Parametric Geo-Accumulation and Ecological Risk Indices of Selected Heavy Metals, Charsadda Road Peshawar, Pakistan. International Journal of Economic and Environmental Geology, vol. 10 (3), 109-117 <u>https://www.econ-environ-geol.org/index.php/ojs/article/view/319</u>
- Khan H. A., Zoughi T., Iftikhar S., Khan M. J., Irfan M., (2019). Plio-Pleistocene Stratigraphic Sequences and Depositional Model using 3D Seismic Interpretation Constrained by Well Logs in Central Graben, North Sea. Journal of Earth System Science, vol. 128 (4), 85 http://link.springer.com/article/10.1007/s12040-019-1113-x
- Ali M., Khan M. J., Ali M., Iftikhar S., (2019). Petrophysical Analysis of Well Logs for Reservoir Evaluation: A Case Study of 'Kadanwari' Gas Field, Middle Indus Basin, Pakistan. Arabian Journal of Geosciences, vol. 12 (6) http://link.springer.com/article/10.1007/s12517-019-4389-x
- Nergis Y., Khan M. J., Mughal N.A, Sharif M., Butt J.A. (2018). *Management of Ground Water Hazard: A Case Study of Thar Coal Mine, Pakistan*. International Journal of Economic and Environmental Geology, vol. 9 (4): 68-73 https://www.econ-environ-geol.org/index.php/ojs/article/view/191
- Khan M. J., Khan H. A., (2018). Petrophysical Logs Contribute in Appraising Productive Sands of Lower Goru Formation, Kadanwari Concession, Pakistan. Journal of Petr. Exp. and Production Tech., vol. 8 (4), 1089–1098 http://link.springer.com/article/10.1007/s13202-018-0472-1
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- 33. Nergis Y., Khan M. J., Mughal N.A, Sharif M., Butt J.A. (2018). *Environmental Impacts and Mitigation of TLC Mine Dewatering Operation, Sindh, Pakistan.* Bahria Uni. Res. Jour. of Earth Sci., vol. 3, 12-16
- 34. Khan M., Khan M. J., Kakar M. I., Mahmud K., (2018). *Geology and Petrology of Crustal Section of Bela Ophiolite*, *Balochistan, Pakistan.* Bahria Univ. Res. J. of Earth Sci., vol. 3, 1-5
- 35. Khan M. J., Ali M., Khan M., (2017). Gamma Ray-Based Facies Modelling of Lower Goru Formation: A Case Study in Hakeem Daho Well Lower Indus Basin Pakistan. Bahria Univ. Res. J. of Earth Sci., vol. 2, 40-45.
- 36. Khan M., Khan M. J., (2017). Geology and Petrography of Peridotites (Mantle Section) From Bela Ophiolite Balochistan, Pakistan. Bahria Univ. Research J. of Earth Sci., vol. 2, 16-22
- 37. Khan M. A., Raza S., Hussain J., Ali B., Ali S., Khan M. J., Mehmood S. (2017). *Microfacies Analysis and Depositional Settings of The Late Permian Wargal Limestone Exposed at Nammal Gorge, Western Salt Range, Pakistan.* Bahria Univ. Research J. of Earth Sci., vol. 2, 46-51.
- 38. Khan M. J., Ali M. (2016). A Review of Research on Gas Hydrates in Makran. Bahria Univ. Research Journal of Earth Science, vol. 1: 28-35
- Ali M, Khan M. J., (2015). GIS-Based Study on Seismicity of Makran Over 100 Years. International Journal of Economic and Environmental Geology, vol. 6 (2), 11-16 https://www.econ-environ-geol.org/index.php/ojs/article/view/100/93
- Ali M., Khan M. J., (2014). Invisible Fault Lines Ruin the Development of Urbanization. NFC-IEFR J. of Engineering & Scientific Research, vol. 2, 26-30 http://nijesr.iefr.edu.pk/journalFolder/7/34c4d.pdf

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C-2) Conference Presentations/Abstracts/Magazine Articles (International/National Conferences)

- 1. Khan M. J., (2021). *Geohazards Potential of southern Pakistan and Arabian Sea*. Thematic webinar on Natural Hazards and Risks Management, China-Pakistan Joint Research Center, China, 22 July, 2021.
- 2. Khan M. J., Hashmi S., (2021). *Research opportunities in Environmental Sciences*. Webinar on BU live Streaming-Social Media Channel, 6 July 2021.
- 3. Khan M. J., Hashmi S., (2021). Scope and Career opportunities of Geosciences and Environmental Sciences *Programs*. Webinar on BU live Streaming-Social Media Channel, 6 July 2021.
- 4. Khan M. J., (2021). *Geospatial Technology is an Emerging Trend in Applied Research*. Prodigy- Bahria University Magazine, vol. 2 (March Issue), Pages 39-41
- 5. Khan M. J., Hashmi S., (2021). *Morphological Changes of Indus River Section from Sukkur to Dadu using Geospatial Techniques*. International Conference on Energy, Water and Environment, 31st March 2021, UET Lahore.
- 6. Hashmi S., Khan M. J., (2021). *Spatial Distribution of Carbon Monoxide in Karachi, Pakistan.* International Conference on Energy, Water and Environment (ICEWE-2021), 31st March 2021, UET Lahore.
- 7. Khan M. J., (2021). Exploration Surveys For Potential Mineral Resources of Pakistan. SGS Pvt. Limited. National Webinar, 28 January 2021
- Khan M. J., (2020). Analytical Analysis of Seismicity using an Updated Catalogue for Southern Pakistan. Oral Presentation (Online), 3rd Conference of the Arabian Journal of Geosciences (CAJG), Springer, 2–5 November 2020, Sousse, Tunisia (Conference Paper Reference: 274), Extended Abstract - Accepted
- Khan M. J., Lamessa G, Butt M., N., (2020). Revised Catalogue of Earthquakes in Southern Pakistan. Oral Presentation (Online), 3rd Conference of the Arabian Journal of Geosciences (CAJG), Springer, 2–5 November 2020, Sousse, Tunisia (Conference Paper Reference: 1033), Extended Abstract- Accepted
- Khan M. J., Tariq A., Khan H. A., Nazeer A., (2020). Hydrocarbon Potential of New Gas Leads in Cretaceous Sands of Lower Goru. Oral Presentation (Online), AAPG/EAGE 5th Myanmar Oil and Gas Conference, 12-14 May 2020, Yangon, Myanmar, Abstract - Accepted
- 11. Khan M. J., Yasmin N., Jamil R., Amanullah (2018). *Geo-informatics Techniques Contributed to Study The Impact* of *Climate Changes On Indus River Morphology*. Oral Presentation, National Conference on "Climate Change", Department of Earth and Environmental Sciences, Bahria University, Islamabad Campus, Pakistan, 27 Dec 2018.
- Khan M. J., Khan M., Yasmin N., (2018). GIS-based Mapping for Minerals to Expose Peridotite Rocks using Spectral Bands of Landsat, Balochistan, Pakistan. Oral Presentation, National Conference on "Mineral Resources Utilization for Sustainable Environment & Economic Development" PCSIR Lab Complex, Karachi, 17 October 2018
- 13. Tariq A., Khan M. J., (2018). *Geophysical Studies (Seismic Delineation and Petrophysical Evaluation) Exposed the Gas Leads in Massive Sands of Lower Goru, Sinjhoro Block, Pakistan.* Poster Presented, 2nd National Students Conference and Exhibition- Pakistan Association of Petroleum Geoscientists, 8 Sep 2018.
- 14. Khan M. J., Ali M. (2018). *Modelling Seismicity of Karachi Using GIS Methods*. Oral Presentation, International Symposium on Earthquake Studies, National Center for Physics, QAU Islamabad, 24 September 2018
- Khan H. A., Khan M. J., Qureshi A. M., Naqvi, D., Safdar A., Ahmed U., (2018). A Review of Research on Revolution of 3D Seismic Geomorphology of Fluvial System. Abstract published: In AAPG Europe Regional Conference, Global Analogues of the Atlantic Margin. Lisbon, USA. May 2-3, 2018; AAPG Article #90325
- Khan M. J., Sajid M. A. (2018). Geospatial Technology Appraising the Plantation of Biofuel Source in Pakistan. Abstract published, In Conference Proceedings, International Conference on Environment and Sustainable Development' G.C. University Lahore, 13-14 March, 2018
- Khan M. J., Irshad M., Ali M., Kainat P. (2017). A Simple Model of Earthquake Waves Propagation and Earthquake Energy. Oral Presentation, 1st National Science Conference, The Govt. Sadiq College for Women University, Bahawalpur, 4-6 May, 2017
- 18. Khan M. J. (2016). *Geological Insight of Cape Monze and Mapping of Potential Earthquake Hazard in Karachi region*. Oral Presentation, A Series of Geosciences Seminar, Deptt. Earth & Env. Sci. BUKC, 18 June 2016

- 19. Khan M. J., (2015). *Recent Seismicity in Hindukush Region-26 Oct 2015 Event*. Oral Presentation, One-day Seminar on Recent Earthquake Activity in Pakistan, Deptt. Earth & Env. Sci. BUKC, 10 Nov 2015.
- 20. Ali M., **Khan M. J.**, (2015). *A way towards Innovative Technology to store Earthquake Energy*. Abstract Accepted, 10th International Conf. on Earthquake Resistant Engineering Structures, Wessex Institute, UK. 4-7 Feb 2016
- Ali M., Khan M. J., (2014). Invisible Fault Lines Ruin the Development of Urbanization. Oral Presentation, 1st International Conference on Infrastructure Management and Rehabilitation Techniques, American University of Sharjah, UAE, 2-4 March 2014.
- 22. Khan M. J., (2013). Access to Low-Cost Satellite Data. Oral Presentation, Training Workshop, "Satellite Remote Sensing & GIS for Beginners", Institute of Space Technology (NCRG, SUPARCO) Karachi.
- 23. Khan M. J., (2013). *Getting to Know Computer Image Processing of Landsat Images by Erdas Imagine*. Oral Presentation, Training Workshop, "Satellite Remote Sensing for Beginners", Institute of Space Technology (NCRG, SUPARCO), Karachi.
- 24. Ali M., Khan M. J., (2012). Analytical Analysis of Seismicity Over 100 years in southern Pakistan: Abstract submitted to NABGG Conference, Washington DC. USA.

C-3) Author of Book Chapters (published in Australia and China)

- Inam A., Clift P. D., Liviu G., Khan M. J., Kidwai, S., Alizai A., Ali S. S., Shaheen A., Qadri R., (2022). *The Geographical, Geological and Oceanographic Settings of Indus River An Update:* In Gupta, A. (Ed.). Large Rivers: Geomorphology and Management. John Wiley & Sons. Chapter 17, pp. 488-520 https://onlinelibrary.wiley.com/doi/pdf/10.1002/9781119412632.ch17
- 2. Liao G. J., Zhen J. S., **Khan M. J.**, Inam A., Khalid M., (2022). Study on Gas Hydrates in Makran Accretionary Wedge in Northwest Indian Ocean. Monograph by Chinese Academy of Science. *In- Production*

C-4) Thesis Supervisor [2010-2022]

- Supervised 90 BS/MSc Thesis/Final Year Projects/Field Reports since 2010
- Supervised 04 MS Thesis of Geophysics Program (BUKC)
- Supervised 01 MS Thesis of Virtual University, Burewala Campus (Biotechnology Program)
- Supervised 15 Social Action Projects (SAP), British Council Certified Facilitator- Active Citizen
- Co-supervised 01 MS Thesis of Environmental Sciences Program, BUKC
- Co-supervised 02 MSc Thesis of University of Karachi (Geology Program)
- Co-supervised 01 MPhil Thesis of University of Balochistan Quetta (Geology Program)
- Co-supervised 03 BS Thesis SZABIST, Karachi (Bioscience Program)
- Co-supervised 03 BCE Thesis Deptt. Comp. Engineering, BUKC (Computer Engineering Program)
- Co-supervised American Association of Petroleum Geologists Team (IBA Competition 2020, 2021)
- Supervised: American Association of Petroleum Geologists Team (IBA Competition 2019)
- Team Lead: American Association of Petroleum Geologists Team (IBA Competition 2017)

C-5) Significant Role in Research & Development (R&D) [2015- to date]

- 1. Pioneer & Editor: Bahria University Research Journal of Earth Science (BURJES, Pakistan)
- 2. Editorial Board Member: Anthropology, Geography and the Earth (UK)
- 3. Editorial Board Member: SCIREA Journal of Geosciences (Europe)
- 4. Editorial Board Member: Earth and Planetary Science (Singapore)
- 5. Editorial Board Member: Pakistan Journal of Science (Pakistan)
- 6. Editorial Board Member: Kashf Journal of Multidisciplinary Research (Pakistan)
- 7. Reviewer: American Journal of Earth & Environmental Sciences (Science Publications, USA)
- 8. Reviewer: Current Research in Geoscience (Science Publications, USA)
- 9. Reviewer: Natural Hazards (Springer Nature, Netherlands)
- 10. Reviewer: Arabian Journal of Geoscience (Springer Nature, Kingdom of Saudi Arabia)
- 11. Reviewer: Geomechanics and Geophysics for Geo-Energy and Geo-Resources (Springer Nature, Switzerland)
- 12. Reviewer: Earth Sciences Research Journal (Colombia)
- 13. Reviewer: American Journal of Applied Sciences (UAE)
- 14. Reviewer: International Journal of Economic & Environmental Geology (Pakistan)
- 15. Reviewer: The Nucleus (Pakistan)

- 16. Reviewer: Environmental Processes (Springer Nature, Europe)
- 17. Reviewer: Journal of Environmental Management (Elsevier, USA)
- 18. Reviewer: Current World Environment (India)
- 19. Reviewer: Rudarsko-geološko-naftni zbornik (Croatia)

C-6) Selected Consultancy Services for National Projects [Ministry of Defence, Pakistan]

- Pakistan Navy- PNS Akram (Balochistan), Hemmer-Head, Jabal-e-Nooh, Site visit on 26 November 2019 Reconnaissance Survey; Seismological Hazard Assessment of Site before construction of New Blocks
- Pakistan Air Force Air Base Bholari (Sindh), Geological/Geophysical Work (Feb 2019- Nov 2020)
 Planning of Geophysical Survey and Boreholes Drilling, Interpretation of Electrical Resistivity Tomography,
 Drainage network mapping using Satellite Images, Proposal of Safe Zones and alternate Run-Way/Air Port.

Skill Set

a) Interpersonal Skills

- Effective Communication & Presentation skills
- Innovative thinking and Creative writing
- Adaptable/ flexible attitude 'can do'
- Organizational skills as Individual/ Team Member

b) Technical Skills

> Geophysical Skills

- Earthquake Data Processing and Interpretation
- Gravity, Magnetic and Geoelectric Data Acquisition, Processing and Interpretation
- Seismic Refraction Data Acquisition and Interpretation
- Seismic Reflection Data Interpretation (2D / 3D)
- Interpretation and Modelling (2D/3D) of integrated datasets
- Field Surveys: Magnetometer (Proton Precession); Seismograph (24 Channel) and Terrameter

> Geological Skills

- Mapping of geological structures and features measurement (dip angle and strike, bed thickness bedding styles etc)
- Identification of minerals / rocks and understanding of geomorphic features in land topography
- Field work in different geological settings (sedimentary basins, coastal belt, hard/basement rocks)

GIS & Remote Sensing Skills

- Spatial Data acquisition, analysis and mapping
- Collection of GPS data and Management of Spatial Database
- Integration of multiple data variables in Vectors and Raster format
- Handling and Processing of satellite images (Landsat TM, ETM, OLI, TIRS, MODIS, ASTER, InSAR etc.)
- Interpretation of Satellite Images for features extraction (Minerals index, Urban, Water, Vegetation,)
- Designing of specialized algorithms using multi-spectral satellite images/optical sensors
- Mapping of geological structures and topographical features using DEM

> IT Skills

- Preparation of professional presentations, reports and spread sheets
- Use of online resources for education, meetings, webinars

> Software Skills

- ArcGIS
- Google Earth Engine
- ERDAS Imagine
- SURFER
- ZMap
- MapSeis
- MATLAB

- GM SYS
- IPI Win
- GeoGraphix
- Techlog
- MINITAB
- Coral Draw
- MS Office (PowerPoint, Word, Excel)

Management Skills

- Team Leader, overall office management
- Mock Audits, Supervise Inspections, Budgeting
- Cost effective approaches in organizing events
- Policy making, Record keeping, Future Planning
- Implementation of Instructions and Protocols

Collaboration with Universities

- GC University Lahore- Member of Organising Committee, International Conference APICEE [2025]
- Askari School System, Burewala -Trainer/Teachers Hiring Committee Member [2022- 2024]
- Askari College of Education, Burewala -Academic Coordinator [Fall 2022]
- Bahria University Islamabad Campus -Research collaboration in the fields of Geophysics and Env. Sciences [2015-date]
- University of Peshawar -Reviewer/Examiner, MPhil Geology Thesis [Spring 2021 and Fall 2021]
- University of Karachi -Co-Supervisor, BSc (Hons) Geology Thesis [Spring 2021]
- University of California (USA) -Research collaboration in the field of Earthquake Seismology (2010-21)
- Virtual University, Burewala Campus -Supervisor of MS Thesis [Fall 2019]
- University of Karachi -Invited Guest Speaker, Need of Geophysical Surveys, (24-25 Dec 2020)
- SZABIST University, Karachi Visiting Faculty Member, Department of Bioscience (Spring 2020)
- University of Sindh, Jamshoro Trainer, Centre of Excellence in Mineralogy, (Sep, 2019)
- SZABIST University, Karachi Visiting Faculty Member, Department of Biosciences, (Spring and Fall 2018)
- University of Karachi -Visiting Faculty Member, Department of Geology (Fall 2017)
- Federal Urdu University, Karachi -Speaker, Role of Geophysical Surveys in Civil Engineering Projects, 24 Oct, 2017
- Federal Urdu University, Karachi Organized Workshop on Environmental Impact Assessment, 1-4, Jan, 2015

Collaboration with Organizations

- Pak Alert HD [YouTube Chanel) Invited Expert-Seismologist, Frequent earthquakes in Karachi, 21 June 2025
- BOL News -Invited Expert-Geologist, Changes in Earth's Interior. Morning Show, 31 January 2023 ((9-11 AM)
- K21 News -Expert, Predictions about Earthquakes in Pakistan, Karachi2Day, 7 February 2023 (11 PM)
- SGS Pakistan Pvt Limited -Invited Speaker, Webinar on Scope of Minerals Exploration in Pakistan (2020-21)
- PAPG -Technical Quiz Competition of 1st & 2nd Students Exhibition 2017 & 2018, 8 September 2017-18
- British Council -Conducted Training -Active Citizens Program (Social Action Projects), 25-29 July 2016
- K21 News -Invited Expert, Water Crises in Karachi. Live Program Karachi 2 Day, 11 July 2016 (10-11 PM)
- AJJ News -Invited Expert, Discussion on 26 October Earthquake-Afghanistan, Morning show -27 Oct 2015 (9-11 AM)
- K21 News -Expert, Insight on 26 October Earthquake-Afghanistan, NEWS IN LINE, 26 October 2015 (8-9 PM
- Environmental Research Center -Organized Drinking Water Quality Testing Campaign, 6-8, May 2014

Active Member of Organizations

- American Association of Petroleum Geologists (AAPG)
- Society of Exploration Geophysicist (SEG)
- Pakistan Geophysical Network (PGN)
- Geological Society of America (GSA)
- Society of Petroleum Engineers (SPE)
- American Association for Science and Technology (AAST)
- Pakistan Association of Petroleum Geoscientists (PAPG)
- Society of Economic Geologists Mineralogists Industrial Technological Experts (SEGMITE)

Hobbies

- Social networking and collaboration for growth of integrated projects in emerging technologies
- Learning Software/Computer Applications to master skills specially focused on geospatial sciences
- Reading and Writing on emerging trends in Geophysics, Geology, GIS and Environmental Science
- Traveling for Field work/Surveying/Research/Education Projects

- Member ID 10069555
- Member ID 178779
- Member ID Q2008-1591
- Member ID 922615
- Member ID 3583434