

CURRICULUM VITAE

Dr. SADIYA IDRIS KHAN

Department of Geology,
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CAPABILITIES

- My teaching pedagogy involves creative development of critical thinking and praxis.
- Compiled and formatted image data to increase its usefulness.
- Prepared or delivered reports or presentations of geospatial project information.
- Processed aerial or satellite imagery to create products such as landcover maps.

ACADEMIC PUBLICATIONS

- Sadiya Idris Khan, Akram Javed. *Geomorphometric Characteristics and Associated Land Use/Land Cover in Sajnam Basin: A Remote Sensing and GIS Based Approach*. Journal of Remote Sensing & GIS. 2017; 8(3): 22–32p.
- Sadiya Idris Khan. *Land cover/ land use classification and associated image characters in a rainfed watershed based on geospatial techniques*. International Journal of Innovative Research in Technology. 2021, 25 Oct. P. 230-237, Volume 8 Issue 3.

PAPERS PRESENTED IN INTERNATIONAL CONFERENCES

- “*Morphometric and Land use/land cover analysis of Sajnam Reservoir catchment using remote sensing and GIS techniques*”, in the 9th International Geographic Union(IGU) Conference on “Land use change, Climate extremes and Disaster risk reduction March 18-20, 2016.”
- “*Quantitative Morphometric Analysis of Sajnam Basin in Lalitpur District Uttar Pradesh Using Remote Sensing and GIS Techniques*” in International Conference on “Water, Environment, Energy and Society (ICWEES- 2016) “organized jointly by AISECT University, India and Texas, A and M University, USA.
- “*Hydrogeomorphic mapping and delineation of Groundwater potential zones using Remote sensing and GIS in a Rainfed river basin, Bundelkhand region (U.P.)*”, in International conference “Remote sensing and GIS for application in Geosciences”, organized in Department of geology, Aligarh Muslim University, held on 17th August 2017.

PAPERS PRESENTED IN NATIONAL SEMINARS/ CONFERENCES

- “*Drainage basin characteristics and terrain analysis of Sajnam reservoir catchment using Remote sensing and GIS*” in a national conference on “Agriculture, Environment and sustainable development” held on March 21-22, 2016 in Department of Geography (DRS_III), Aligarh Muslim University, Aligarh.
- “*Spatiotemporal land use land covers analysis from 1998-2015 in Sajnam watershed using remote sensing and GIS techniques*” in a seminar on Recent advances and challenges in Geochemistry, Environmental and Sedimentary Geology (under DRS-II UGC program) in the Department of Geology, Aligarh Muslim University, held on February 2017.

COMPETITIVE CERTIFICATIONS

Qualified **CSIR-NET** exam in December 2014 with **19th rank** (47.31%).

NATIONAL SEMINAR AND SUMMITS

- Delegate in Eco summit 2016 Held by “University Eco Club and Environment solutions.”
- Participated in National Seminar on “Earth Sciences and Challenges in Earth Sciences” Organized by Department of Geology, Aligarh Muslim University, Aligarh on 29th November 2014.
- Attended a regional seminar on “Water Conservation and Impact of Climate Change on Environment on 5th June 2012, in the Department of Geology.

WORKSHOP & ACADEMIC COURSES

- Completed **six professional development** hours of “**2020 IGARSS Online Summer School: Remote Sensing for Volcanoes**”, on 16th July 2020 organized by
- Participated in **GIAN short-term course on Advanced Hyperspectral** remote sensing Techniques for Mineral Exploration.
- Participated in **Author workshop** jointly organized by “Springer Nature” and “Aligarh Muslim University” on 3rd November 2016.

- Participated in “*Green Revolution Global Certification Program*” a cause sponsored by “United Nations Framework Convention on Climate Change”, and got a Score “A”
- Attended a One Day Regional Seminar on “*Water Conservation and Impact of Climate Change on Environment*” June 5 2013, in the Cultural Hall, MAL, AMU, Aligarh
- Attended a Two Days workshop on “*Emerging Trends in Communication Technology* (ECT-2013)”, 9 -10 February 2013, organized by University Women’s Polytechnic, AMU, Aligarh.
- A Two Days Workshop on “*Internet and Its Applications (WIA-2009)*” on 19-20 December 2009 Organized by AMU, Aligarh.

EDUCATIONAL PROFILE

DEGREE/ QUALIFICATION	STREAM/ TOPIC	YEAR	MARKS	DIVISION	UNIVERSITY / BOARD
PhD	Geology	2020	N/A	Awarded	AMU
M.Sc.	Applied Geology	2013	69.99	First	AMU
B.Sc.	Geology	2011	67.00	First	AMU
SSSC	Physics, Chemistry, Biology	2008	58.00	Second	AMU
High School	English, Science, Mathematics	2006	64.00	First	AMU
Schooling	Basic Subjects	1997- 2005	--	--	St. Mary’s Convent School and AMU Girls High School

PhD/ DISSERTATIONS DETAILS

- **Topic of research:** Water resource development plan of a rain-fed river basin in Bundelkhand region, Uttar Pradesh using remote sensing and GIS techniques.
 - ❖ *PhD thesis defence viva conducted on 19th November 2020 and awarded in December 2020.*
- **Project Dissertation in M.Sc.:**
 - ❖ Foraminiferal Systematics, Biostratigraphy, Paleoecology and Paleobiogeography of Jurassic Sediments of Ler Dome Kutch.

FIELD RESEARCH

- ❖ **PhD**
 - Carried out a detailed survey of the study area for the ground truth verification of the land use land cover features, geomorphology, geology, and drainage features of the study area identified through remote sensing techniques using the LISS III data and the maps were updated later accordingly.
 - The water level of the study area was measured to verify the data obtained from CGWB.
- ❖ **MSc.**
 - **Semester I** ~ General geology and tectonic evolution of Doon Valley and Siwaliks.
 - **Semester II** ~ General geology and tectonic evolution of Bundelkhand Craton.
 - **B.Sc. (F)** ~ Study of exposure of Aravalli Belt in and around Chittaurgarh.

EXTRA -CURRICULAR

- Swimming, bicycling, active sports, and athletics.
- Writing travelogue
- Reading autobiography, travelogue, novel, and short stories.
- Event organizer.
- Participated in all the cultural, academic and sports events and got prizes.
- Participated in many debates during school and got prizes.

COMPUTER LITERACY

- ❖ MS Office.
- ❖ MS Excel/ Word
- ❖ Adobe Photoshop
- ❖ Certificate in Internet and Its Applications.
- ❖ Expertise in Software like Arc Map, ILWIS, ENVI, SWAT, Erdas Imagine, Arc View, Saga GUI etc.

SHORT TERM COURSES

- Attended a short-term course on “Personality Development and Communication Skills” from 19th-25th November 2014 organized by UGC Academic Staff College.

DECLARATION:

I hereby declare that all the above-furnished information is true to the best of my knowledge and belief. Will make it my earnest endeavour to discharge competently and carefully the duties you may be please to entrust with me.

Date:14/06/2020

Place: Aligarh