

DR. SHAH NAWAZ KHAN

Postdoctoral Research Fellow (Keio University, Japan) | Lecturer, CDPM, University of Peshawar

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ORCID	0000-0001-8137-4861	Experience	17+ Years

Professional Profile

Disaster Risk Reduction specialist with expertise in GIS, Remote Sensing, Hazard & Vulnerability Assessment, Flood and GLOF Risk Assessment, Climate Change Adaptation, Artificial Intelligence and Machine Learning applications in Disaster Management. Currently pursuing Postdoctoral research at Keio University, Japan under the HEC Postdoctoral Fellowship.

Academic Qualifications

2025–26	Postdoctoral Research, Keio University, Japan
2019	PhD Disaster Management, University of Peshawar
2008–09	PG Diploma Disaster Planning & Management
2007–08	PG Diploma GIS & Remote Sensing
2006–07	B.Ed. Biological Science Group
2005	M.Sc. Geography

Research Metrics & Achievements

- 29 Peer-Reviewed Research Publications
- 1 Springer Edited Book in Progress (17 Chapters)
- 8 International DRR Book Chapters
- 1 Encyclopedia Chapter
- 5 Conference Papers
- HEC Postdoctoral Fellowship Recipient

International Collaborations

- Keio University, Japan
- SoftBank Corporation, Japan
- Toyota, Japan
- Shandong University, China
- IRIDeS, Tohoku University, Japan
- Charles Darwin University, Australia

Teaching, Leadership & Service

- Lecturer, CDPM, University of Peshawar (2011–Present)
- Member, Board of Studies (CDPM)
- Member, IRDR Young Scientists Programme
- Member, International Society for Digital Earth (ISDE)
- Assistant Editor, Journal of Science & Technology, UoP

Student Supervision

- PhD: 1 Student
- MS/MPhil: 6 Students
- BS Research Groups: 77
- M.Sc. Research Groups: 35
- PG Diploma Groups: 29

Selected Publications

1. Comparative Analysis of Multiple Drought Indices and Indigenous Knowledge (2026).
2. Arsenic Speciation in Soil and Human Health Risk Assessment (Urban Ecosystems, 2025).
3. Post-GLOF Recovery Analysis, Chitral, Pakistan (2024).
4. Vermi-remediation and Metals Bioaccumulation (Chemosphere, 2024).
5. GIS-Based Urban Flood Resilience Assessment (Remote Sensing, 2021).
6. CMIP5 Temperature Projections over South Asia (Atmospheric Research, 2020).

Core Expertise

- Disaster Risk Reduction (DRR)
- GIS & Remote Sensing
- Flood & GLOF Risk Assessment
- Hazard & Vulnerability Assessment
- Climate Change Adaptation
- Artificial Intelligence & Machine Learning for DRR