

# JAVAID M. DAD

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**Home:**

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## Info (Brief)

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I am currently working as Assistant Professor (Contractual) at the Department of Environmental Science, University of Kashmir. Prior to it, I worked as Senior Research Associate (SRA) at the University of Kashmir, Srinagar in a research project entitled “*Ecological niche modelling as a tool for evaluating threat assessment and predicting distribution of various threatened species across Kashmir Himalaya*”, awarded to me by the Council for Scientific and Industrial Research (CSIR). As part of National Mission on Himalayan Studies (NMHS), I have also worked as Research Associate at University of Kashmir, Srinagar and studied the long term climatic variability over Kashmir Himalaya. I was awarded Young Scientist Start up Research Grant, by Department of Science and Technology, Government of India for investigating the understory forage clover in apple orchards of Kashmir valley, India for its biomass and carbon sequestration potential. I was also awarded the Dr D.S. Kothari Postdoctoral Fellowship by University Grants Commission, New Delhi wherein I studied the phyto-sociological attributes and soil carbon stocks of Kashmir Himalayan Grasslands

I represented India at The BRICS Young Scientist Conclave hosted by Russia in 2020.

I also won the Department of Science and Technology, Government of India, sponsored AWSAR (Augmenting Writing Skills for Articulating Research) award, 2022 for my research story submitted under the postdoctoral category.

I was also awarded National Young Scientist Award by the National Environmentalist Association, India, 2011.

## EDUCATION

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2019- 2022	Senior Research Associate at University of Kashmir, Srinagar.
2018-2019	Research Associate at University of Kashmir, Srinagar for National Mission on Himalayan Studies (NMHS)
2015-2018	Postdoctoral (PDF) Research ‘Bio-prospecting, inventorization and characterization of understory forage legume for biomass and carbon sequestration in apple orchards of Kashmir valley, India’, at Central Institute of Temperate Horticulture, Old Air Field Road, Srinagar.

2012 – 2015	Postdoctoral (PDF) Research ‘Soil carbon stocks in Kashmir Himalayan Grasslands – Extent, seasonal and altitudinal pattern and control in relation to community composition’, at Department of Botany, University of Kashmir Supervisor: Professor Zafar A. Reshi
2008 – 2012	PhD ‘Diversity and distribution of herbaceous flora of high alpine grasslands of Gurez valley, Kashmir’, at Department of Ecology and Environmental Sciences, Pondicherry Central University Supervisor: Professor Anisa B. Khan
2006-2007	MPhil- ‘Study of problems and prospects of people’s participation in conservation of lake ecosystems of Kashmir’, at Indian Institute of Forest management, Bhopal Supervisor: Professor Yogesh Dubey
2005-2006	MSc- ‘Sediment chemistry and Zoo benthos of Nigin basin of Dal Lake Kashmir’, at University of Kashmir, Srinagar.
1999-2002	BSc- (Medical) ‘General English, Zoology, Botany and Chemistry’, at University of Kashmir.

A brief overview of my education qualification is as under:

<b>Degree</b>	<b>Board/University</b>	<b>Year</b>	<b>%/Grade</b>
Postdoctoral Research (PDF)	Central Institute of Temperate Horticulture, Srinagar	2018	--
Postdoctoral Research (PDF)	University of Kashmir	2015	--
PhD (Environmental Science)	Pondicherry Central University	2012	--
M. Phil (Environmental Science)	Indian Institute of Forest Management, Bhopal	2006	3.85/ 4.33
M.Sc. (Environmental Science)	University of Kashmir	2004	70.08
B. Sc (Chemistry, Botany, Zoology).	University of Kashmir	2001	59.67
Higher Sec. II (12th)	J&KBOSE	1998	62.00
Higher Sec. I (10th)	J&KBOSE	1996	63.40

## PUBLICATIONS

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**Javaid M Dad**, Irfan Rashid 2023. Is climate change pushing gymnosperms against the wall in the northwestern Himalaya? *Regional Climate Change*. 23 (2) <https://doi.org/10.1007/s10113-023-02050-1>

Aabid Hussain Mir, **Javaid M. Dad**, Bikarma Singh Azra N. Kamili. 2022. Passive restoration considerably improved the community structure, soil health and carbon stock in the Pine forests of Kashmir Himalaya, India. *Ecological Engineering* <https://doi.org/10.1016/j.ecoleng.2021.106535>

**Javaid M Dad**, Irfan Rashid 2022. Differential responses of Kashmir Himalayan threatened medicinal plants to anticipated climate change. *Environmental Conservation*. <https://doi.org/10.1017/S0376892922000030>

**Javaid M. Dad** and Mifta ul Shafiq (2021): Spatial variability and delineation of management zones based on soil micronutrient status in apple orchard soils of Kashmir valley, India *Environmental Monitoring and Assessment*. [10.1007/s10661-021-09588-9](https://doi.org/10.1007/s10661-021-09588-9)

**Javaid M. Dad** and Mifta ul Shafiq (2021): Spatial distribution of soil organic carbon in apple orchard soils of Kashmir Himalaya, India. *Carbon Management*: 10.1080/17583004.2021.1967787.

**Javaid M Dad**, Suheel A Dand, and Nazir A Pala. (2021). The effect of bi-culture cover crops on soil quality, carbon sequestration, and growth characteristics in apple orchards of North Western Himalayas *Agroforestry Systems*. 10.1007/s10457-021-00687-7.

**Javaid M Dad**, and Abdollahi L (2021) Changes in soil organic carbon, nitrogen and sulphur along a slope gradient in apple orchard soils of Kashmir Himalaya, India. *Journal of Mountain Science* 18(9).

**Javaid M. Dad**, M. Muslim, Irfan Rashid, Irfan Rashid, and Zafar A. Reshi (2021). Time series analysis of climate variability and trends in Kashmir Himalaya. *Ecological Indicators*. 126 (2021) 107690.

**Javaid M Dad** 2019. Phytodiversity and medicinal plant distribution in pasturelands of North Western (Kashmir) Himalaya in relation to environmental gradients. *Journal of Mountain Science*. 16 (4): 884-897.

**Javaid M Dad** 2019. Organic Carbon stocks in mountain grassland soils of north- western Kashmir Himalaya: spatial distribution and effects of altitude, plant diversity and land use. *Carbon Management*. 10 (2): 149-162.

**Javaid M Dad**, Shahid Ali, H.Bharti and A.Wachkoo. 2019. Community Structure and Ant species diversity across selected sites of Western Ghats of India. *Acta Ecologia Sinica*. <https://doi.org/10.1016/j.chnaes.2018.12.008>.

**Javaid M Dad** 2016. Distribution, species diversity and composition of plant communities in relation to various affecting factors in an alpine grassland at Bandipora, Kashmir. *Pakistan Journal of Botany*, 48 (2): 551-560.

**Javaid M Dad** and Zaffar A. Reshi, 2015. Influence of environmental and anthropogenic factors on the species distribution of alpine rangelands of Gurez valley, Kashmir, India. *Tropical Ecology*, 56 (3):335-346.

**Javaid M Dad** and Zaffar A Reshi, 2015. Floristic composition and diversity patterns of vascular plants in mountain meadow of Gurez valley, Kashmir, India. *Taiwania*, 60 (1):8-17.

**Javaid M Dad** and Zaffar A Reshi, 2013. Classification and compositional differentiation of alpine grassland vegetation of Gurez Valley, Kashmir. *Asian Journal of Biological Sciences* 6(4):192-206.

**Javaid M Dad** and Anisa B Khan. 2013. Threatened Medicinal Plants of Kashmir valley, India *Medicinal Plants*, 5(1): 1-5.

**Javaid M Dad** and Anisa B Khan. 2012. Filling gaps on the distribution of *Arabis nova* Vill, *Thlaspi coclearioides* Hook.f and Thomas, *Gentiana venusta* Wall. ex Griseb and *Primula involucrata* Wall.ex Dubey in Gurez valley, Kashmir, India. *Check List* 8(6): 1319–1320.

**Javaid M Dad** and Anisa B Khan. 2011. Threatened medicinal plants of Gurez valley, Kashmir Himalayas: distribution pattern and current conservation status, *International Journal of Biodiversity Science, Ecosystem Services & Management*, 7:1, 20-26.

**Javaid M Dad** and Anisa B Khan. 2011. Edible Wild Plants of Pastoralists at High-Altitude Grasslands of Gurez Valley, Kashmir, India, *Ecology of Food and Nutrition*, 50:3: 281-294.

**Javaid M Dad** and Anisa B Khan. 2010. Floristic composition of alpine grassland in Bandipora, Kashmir. *Grassland Science*, 56: 87–94.

**Javaid M Dad** and Anisa B Khan. 2008. Problems and prospects of user participation in Manasbal Lake, Kashmir. *Journal of Research and Development*, 8:1, 12-22.

## **ARTICLES UNDER REVIEW**

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**Javaid M Dad**, Irfan Rashid, Aabid H Mir 2024. Effect of climate change on potential distribution of *Dactylorhiza hatagirea* (D. Don) Soo in the twenty-first century across north-western Himalayas. *Theoretical and Applied Climatology*

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## CONFERENCE PROCEEDINGS

**Javaid M Dad**, Anil Sharma and Deshbeer Singh, 2017. Carbon sequestration by cover crop management in apple orchards of Kashmir Valley, India. 3<sup>rd</sup> international Conference on Bio-resource and Stress Management at RKM, Foundation Jaipur India; 8-11 November, 2017.

**Javaid M Dad**, Anil Sharma and Deshbeer Singh, 2017. The Potential of Cover Crops in Enhancing Soil Carbon Sequestration for Climate Change Mitigation- An Insight into Apple Orchard Soils across whole Kashmir Valley (India). National Seminar on Climate Change at Environmental Planning and Coordination Organization (EPCO), Department of Environment, Govt. of MP; 22-24 March, 2017.

**Javaid M Dad** and Zaffar A. Reshi, 2013 Plant biodiversity in alpine grasslands of Gurez valley, Kashmir in relation to various affecting factors. Regional Science Congress (ISCA) & 9th JK Science Congress, University of Kashmir; DST (GOI); J&K SC S&T and ISCA. 1-03, October, 2013.

**Javaid M Dad** and Anisa B Khan. 2011. Ecosystem Conservation Perspectives- The case of alpine grasslands of Gurez valley, Kashmir 3<sup>rd</sup> International Conference on Climate Change, Forest Resources and Environment. University of Kerala, Thiruvananthapuram, 9-11, December, 2011.

**Javaid M Dad** and Anisa B Khan. 2011. Conservation Issues in Alpine grasslands of Gurez valley, Kashmir. National Conference on *Biodiversity: Richness, Uses, Threats and Conservation*. GRI, Gandhigram Tamil Nadu, 19-21 January, 2011.

**Javaid M Dad** and Anisa B Khan. 2010. Conservation status of various threatened medicinal plant species at Bandipora, Kashmir- Mountain biodiversity conservation and challenges. Doon University, Dehradun, 16-19 March, 2010.

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## BOOK

**Javaid M Dad 2019**. Grasslands of North Western Kashmir Himalaya: An Ecological Appraisal. ISBN: 978-81-211-1004-4, Bishen Singh and Mahinder Pal Singh Publishers, Dehradun, India.

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## BOOK CHAPTER

**Javaid M Dad** and Malik Zubair Ahmad 2022. “*Role of Grasslands in Soil Carbon Storage- Case Study from alpine grassland of north-western Kashmir Himalaya*” in Munir Ozturk (Eds) Biodiversity, Conservation and Sustainability in Asia: Publisher Springer. pp.23-32.

**Javaid M Dad** 2018. “*Vegetation diversity of Kashmir and its sustainable use*” in Dilfuza Egamberdieva and Munir Ozturk (Eds) *Vegetation of Central Asia and Enviorns*. Publisher Springer pp.143-161.

**Javaid M Dad** and Zafer A Reshi 2017. Soil Carbon storage in mountain grasslands of Kashmir, India in Khan, A.B. (Eds) *Green India- Strategic Knowledge for combating climate change; Prospects and Challenges*.

**Javaid M Dad** 2016. Synoptic overview of utilization of Kashmir Himalayan grasslands and Horti-pastoral systems for sustained forage supply. *Souvenir on Forage Crops*, 16-22.

**Javaid M. Dad** and Anisa B Khan. 2012. “Conservation issues on Alpine Grasslands of Gurez Valley, Kashmir” In: *Biodiversity, Richness, Uses, Threats and Conservation*, Excel India Publishers. ISBN: 978-93-82062-26-4.

## **WORK EXPERIENCE (FIELD)**

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- Elaborated field work on various grasslands of Kashmir valley across a broad altitudinal and management gradient for studying their soil carbon stocks and floristic attributes.
- Extensive field study of various alpine grasslands of the pristine and unexplored Gurez valley, Kashmir- their floristic composition, structure and inter-relationship with various environmental factors).
- Involved in the extensive fieldwork (animal survey) conducted by Wild Life Trust of India, New Delhi in parts of Ladakh and Leh along the Indo-China Border to study the summer migration of various animals particularly Chiru (*Pantholops hodgsonii*) and Wild Yak (*Bos grunniens*) during the year 2006.
- Hydrological field work (water chemistry) conducted in various lakes of Kashmir valley particularly Dal Lake and Manasbal Lake.

## **TRAINING WORKSHOP ATTENDANCE**

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- 21 days summer school entitled ‘**Recent Trends in Sustainable Livestock and Crop Production Technologies vis-à-vis Climate Change**’ from June 18 to July 8, 2022, organized by ICAR- Indian Grassland and Fodder Research Institute, Regional Research Station, Srinagar and Bihar Animal Sciences, University and National Agriculture Development Cooperative Ltd (NADCL).
- 21 days training program entitled ‘**Geospatial Technology for Sustainable Future and Development**’ sponsored by NRDMS-DST from 10<sup>th</sup> to 30<sup>th</sup> June, 2019 at Sheri Kashmir University of Agriculture Science and Training, Shalimar, Jammu

and Kashmir.

- 5 day training workshop entitled “*Climate Change over high mountains of Asia*” at Indian Institute of Tropical Meteorology, Pune during 8-12<sup>th</sup> October, 2018.
- 10 days training workshop entitled “*Agriculture System models for Soils and Crops*” at Indian institute of Soil Science, Bhopal during 16<sup>th</sup> to 25<sup>th</sup> January, 2018.
- 2 day training workshop entitled “*Barcoding- identification of flora and fauna*” at Pondicherry Central University during 22<sup>nd</sup> and 23<sup>rd</sup> February, 2010.
- 2 day training workshop entitled “*Disaster management and Environmental Protection*” at Pondicherry Central University during 20<sup>th</sup> and 21<sup>st</sup> February, 2009.

## TECHNICAL AND PROFESSIONAL SKILLS

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- Working experience about operating systems Windows and MS Office (Word, Excel, and Power Point), Internet and various vegetation related software's like EcoSim, Bio Diversity Pro, CANOCO, TURBOVEG and TWINSpan.
- Working Knowledge of instruments like Atomic Absorption Spectrophotometer (AAS), Acid Digester and flame photometer.

## AWARDS

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- Department of Science and Technology, Government of India, sponsored **AWSAR - Augmenting Writing Skills for Articulating Research, Award**, 2022.
- **National Young Scientist Award** by the National Environmentalist Association, India, 2011.
- **Best Poster Award** at second National Mission on Himalayan Studies Consortium, held at Gangtok, Sikkim between 26<sup>th</sup> and 27<sup>th</sup>, November 2018.

## FELLOWSHIPS

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- Recipient of the CSIR- Council for Scientific and Industrial Research, Government of India, New Delhi, India) sponsored Senior Research Associate-ship (SRA) for year 2019-2022,
- Recipient of the DST- Department of Science and Technology, Government of India, New Delhi, India sponsored start up research grant for Young Scientists for year 2015-2018.
- Recipient of the UGC- University Grants Commission, New Delhi, India Dr. D.S. Kothari Postdoctoral Research Fellowship for 2012-2015.

- ✚ Recipient of the UGC- University Grants Commission, New Delhi, India; Research Fellowship for Meritorious Students in Science for the year 2009-2011.

### **Invited Lectures/Talks**

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- ❖ Delivered a lecture entitled “An Ecological Overview of Grasslands of Kashmir Himalaya” on 4<sup>th</sup> December, 2023 at International Conference on “Feeding the Future through Sustainable Eco-friendly Innovations in Rangeland, Forages and Animal Sciences” at University of Agricultural Sciences, GKVK, Bangalore, India.
- ❖ As a part of celebration of *Azadi-ka-Amrit Mahotsav*, delivered a lecture on “*Grasslands of Kashmir Himalaya- An Ecological Appraisal*” hosted by ICAR-IGFRI.

### **PERSONALIA**

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I was born on May 6, 1981, in Tral, Jammu and Kashmir and have Indian nationality. I am a Permanent Resident of Jammu and Kashmir in India. Being married, my hobbies are camping, trekking, and playing cricket.

### **DECLARATION/SIGNATURE**

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I, Javaid M Dad affirm that all the information in this document is accurate and true to the best of my knowledge.

Javaid M Dad