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Raza Khan

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Address: House No. 2 B, Officers Colony, National Agricultural Research Centre, Park Road, 44500 Islamabad (Pakistan)

WORK EXPERIENCE

Principal Scientific Officer/Associate Professor

Pakistan Agricultural Research Council [10/08/2015 – Current]

Address: Islamabad (Pakistan)

-Design and develop post-graduate courses, keeping in the view the current day requirements of research.
-Develop and manage funded research projects from idea inception, through data collection, analysis, interpretation, recommendations and completion to the funders' satisfaction. -
-Manage the technical and financial aspects of the research projects, i.e. managing cash flows' timeliness finances and audit.
-Conduct post-graduate teaching, covering major courses, i.e. soil fertility and plant nutrition, mineralogy .
-Supervise soil advisory services of the institute.
-Develop joint research program for China and Nepal under joint working Group.
-Supervised internee students research in internship Program.
-Conducting field experiments and demonstration on integrated Plant Nutrients Management in wheat crop.
-Conducted diagnostic soil survey of wheat growing district in KPK province to developing GIS based soil maps of nutrients status of the area.

Senior Scientific Officer/Assistant Professor:

Pakistan Agricultural Research Council

Address: Islamabad (Pakistan)

-Conducted field experiments and demonstration sites on agronomic biofortification of cereals With Zinc and peanut With Boron in ICARDA-USDA funded project on soil fertility and soil health.
-Organized farmer field days on dissemination of results of best management practices to farmers in above project activity.
-Conducted field experiments and demonstration sites on humic substances based and rational use of fertilizers in cereal production system in ALP-funded project.
- Compilation of mid term and final annual report of project study.

Scientific Officer

Pakistan Agricultural Research Council, Karakuram Agriculture Research Institute [04/04/2001 – 08/06/2013]

Address: Gilgit (Pakistan)

Worked in remote and mountainous research setup of PARC in Northern Area development Program a multi-sectorial UNDP funded project on social up-left of Northern areas (NA's) and worked on .
-Screening of winter wheat varieties for high productivity and yield in sub-mountainous area.
-Farmers field experiments on fertilizer use efficiency of wheat across different varieties in NA's
-Introduction of pulses into short window of time before wheat sowing in Skardu, a mountainous at nearly high altitude of 2500 m.
-Preparation of value added products from seabuckthorn (*Hippophae rhamnoides* L), a local bushy thorn of skardu area.
-Setup basic soil and plant analytical laboratory in Juglot, Gilgit district, NA's.
-Setup basic tissues culture laboratory in Chilas, district, NA's.

Lecturer
Allama Iqbal Open University, [30/09/2000 – 19/12/2000]

Address: Islamabad (Pakistan)

- Tutorial and workshop to undergrad students
-Revision of learning materials and courses
-Paper and assignments marking etc.

Project Investigator
Integrated Nutrient Management for Improving Nutrients biofortified grain & Productivity of Wheat [09/04/2021 – Current]

City: Islamabad

Country: Pakistan

Project Investigator
Soil Advisory Service-National Agricultural Research Center-PARC [12/04/2020 – Current]

City: Islamabad

Country: Pakistan

EDUCATION AND TRAINING

PhD
Institute of Natural Resources, fertilizer and Lime Center, [12/10/2007 – 14/12/2012]

Address: Massey of Department, Palmerston North

www.massey.ac.nz

MSc(Hons.)
Department of Soil Science, [14/03/1997 – 15/11/1999]

Address: NWFP Agricultural University , Peshawar (Pakistan)

www.aup.edu.pk

BSc(Hons.)
Department of Soil Science, [09/11/1993 – 06/10/1997]

Address: NWFP Agricultural University ,, Peshawar, (Pakistan)

www.aup.edu.pk

LANGUAGE SKILLS

Mother tongue(s): **Pashto**

Other language(s):

English

LISTENING C1 **READING** C2 **WRITING** C2

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

Latvian

LISTENING A1 **READING** A1 **WRITING** A1

SPOKEN PRODUCTION A1 **SPOKEN INTERACTION** A1

DIGITAL SKILLS

My Digital Skills

Microsoft Word / Microsoft Excel / Microsoft Office / Microsoft PowerPoint / Google Drive / Zoom / Twitter

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

The following stakeholder are approached using communication methods listed below;

1. Policymakers/Monitoring Agencies: The group is being targeted through policy briefings, project reports and consultation meetings. A final output though project summary document detailing impact of climate resilient management practices and chasing UN-Sustainable development Goals (UN-SDG). Much of the dissemination to this group is likely to be on a briefing or consultation basis. This group is arguably the most important, as it is via this route that the results of this work may be incorporated in national policy.

2. Scientific peers – Dissemination to this group happens primarily through publication of scientific papers in peer-reviewed journals and conferences presentation. This group is important for validation and review of the approach, and collaboration. Suitable target journals include Science of the Total Environment, Agriculture, Ecosystems & Environment, Soil Use and Management.

3. Farmers: The results of the research are being translated in to easy and understandable advise for farmers through presentation of findings at farmer open days, science weeks. Frequency is critical in getting a message to this audience, and so dissemination will be performed often and via a number of simultaneous outlets.

4. General Public – The general public is a vital stakeholder group which is often overlooked in dissemination efforts. Policy is strongly influenced by this segment of population, and so it is important that they understand the science underpinning environmental quality. Dissemination to this group happens through popular press, podcasts/radio talk, and public talks.

SUPERVISORY ROLE

Member Board of Study, University of Haripur (http://www.uoh.edu.pk/)

[09/01/2019 – Current]

SOFTWARE

R studio, SAS

ORGANISATIONAL SKILLS

Organisational skills

1. Worked in Northern Areas Development Program (NADP), a multi sectorial UNDP-GoP finance project. Following activities were performed in this project;

i. Team member of Research and demonstration team conducted experiments and demonstration at different locations of Northern Areas on nutrients use efficiency in wheat crop.

ii. Evaluated various wheat varieties for yield and productivity to classify high yielding wheat varieties.

iii. Organized Farmers Field days For dissemination the findings of best management practices.

2. Humic substances based plant nutrients

Team and Co-Principal Investigator in ALP funded project of Pakistan Agricultural Research Council (PARC) funded project on Development of humic substances based plant nutrients products.

3. Worked as team member and Principal Investigator in ICARDA-USDA co-funded project on Soil Health and Soil Fertility on following tasks;

I. Micro nutrients (Boron) management in peanut crops in Chakwal district, a rain-fed district of Punjab province.

II. Micro nutrients (Zinc) management in wheat aimed at biofortification of wheat through agronomic approaches.

III. The research Findings were disseminated through farmers field days and printing of news letter and other printed materials.

4. Geo spatial mapping of Wheat growing areas soil

Carried out diagnostic soil survey of wheat growing area of Khyber Puktun Khawa (KPK) province , Pakistan. Soil samples were collected at multiple locations, at soil depth; 0-20 cm and 20-40 cm, air dried, sieved and process For chemical analysis such as macro and micro-nutrients such as nitrogen, phosphorus, and potassium along micro nutrients such as Zinc, Boron, and Iron. The data will be used to draw spatial maps using ArcGIS and R studio.

International Collaboration

INTERNATIONAL COLLABORATION

Geo BON
[01/02/2020 – Current]

GLOSOLAN
[02/04/2020 – Current]
https://www.fao.org/global-soil-partnership/glosolan/en/

DRAGNET
[02/04/2021 – Current]

DARKnet
[04/04/2021 – Current]

SEALNET
[07/06/2021 – Current]