

**Prof. Dr. Ahmad Khan**

Department of Agronomy  
The University of Agriculture Peshawar Pakistan  
[Google Scholar](#) | [Research Gate](#) | [ORCID](#)

[ahmad0936@yahoo.com](mailto:ahmad0936@yahoo.com)  
[khanahmad@aup.edu.pk](mailto:khanahmad@aup.edu.pk)

Phone: +92 333 9136792

**Scientific & Professional Career**

2025 International Experts to Forestry College, Northwest A&F University  
2023 AvH Follow up, program, Rhine-Waal University Kleve Germany  
2023 Professor (Tenured) in Agronomy, University of Agriculture-Peshawar, Pakistan  
2019 Postdoc, AvH, Kiel University Germany  
2018 Associate Professor in Agronomy, University of Agriculture-Peshawar, Pakistan  
2014 Post doc fellow of Alexander von Humboldt, University of Gottingen Germany  
2011 Postdoc as Endeavour Fellow, UWA-Australia  
2010 Assistant Professor in Agronomy, University of Agriculture-Peshawar, Pakistan  
2009 PhD, Agronomy, Pakistan  
2008 Lecturer in Agronomy, University of Agriculture-Peshawar, Pakistan  
2007 Research Certificate, Bangor-UK  
2004 MSc (Hons), Agronomy, Pakistan  
2002 BSc (Hons), Agronomy, Pakistan

**Expertise**

Sustainable crop production, Ecosystem sustainability, Soil degradation/stabilization, C and N cycles, C sequestration, Biogeochemistry, Nutrient mobilization, Plant-soil-microbe interactions, Waste management, devising cropping management/systems for diverse areas, Predicting the effects of environmental changes on the crop productivity, Applied statistics and Crop growth modelling.

**Research Projects**

Leading Scientist: One (Rs. 7.6 million, HEC)  
Co-leading: two (Rs. 4.65 million, ILRI-CGIAR & PARC-Pakistan)

**Editorial Boards Membership**

[Sarhad Journal of Agriculture](#) (Associate Editor)

[Annals of Biological Sciences](#) (Editor)

**National and international Awards**

2025 Bonn International Award for collaboration with Prof. Thomas Döring, Germany  
2.018 Best Reviewer of the year from Int. J. of Agric. & Env. Sci. of AWKUM, Pakistan  
2014 Alexander von Humboldt Award by AvH foundation for postdoc studies  
2011 Australia Endeavour Award by Ministry of Science, Australia for postdoc studies  
2010 Network Sponsorship award by British Council for Research Network workshop  
2010 Erasmus Mound, Irland (2010) award for funding for Research Presentation in Nepal  
2007 Research Sponsorship by HEC, Pakistan as IRSIP program for UK  
2005 Indigenous PhD. Fellowship award by HEC  
2004 Silver Medal in M.Sc. (Hons) for the session

**Research Publication & Citation**

[Patent \(filed\)](#): Hydrochar for soil fertility & maize productivity

[Impact factor](#): 66 (Impact points =247.2)

[Non-impact factor](#): 37 & Conference: 9

[Total citation](#): 3447, [H-index](#) = 31

[Reviewer's Services](#) > 500

**Graduate Advisory (Main supervisor only)**

5 Ph D finished (2 ongoing)  
31 MSc finished (11 ongoing)  
28 B. Sc finished (15 ongoing)

**Leading of Advanced Teaching Courses**

2 Training for Production Technology of crops  
7 Statistical analysis and design  
4 Tools for references and citation  
5 Member organizing committee of conferences

**Participated in training/workshops**

15 National  
3 International



Scopus



ORCID  
Connecting Research  
and Researchers



## *Full Length Curriculum Vitae*

### **Prof. Dr. Ahmad Khan (Tenured)**

PhD – 2009 (Pakistan + 6 months IRSIP, University of Bangor UK)  
Postdoc – 2011 (University of Western Australia, Endeavour Fellow)  
Postdoc – 2015 (Georg August University Göttingen, Germany-Humboldt Fellow)  
Postdoc – 2019 (University of Kiel, Germany-Humboldt Fellow-follow up)  
Postdoc – 2023 (Rhine-wall University, Kleve Germany-Humboldt Fellow-follow up)

#### **Mailing Address:**

Department of Agronomy, The University of Agriculture, Peshawar Pakistan  
Phone & WhatsApp: +92-333-9136792, WeChat: Khan0936; Website: [www.aup.edu.pk](http://www.aup.edu.pk)  
Email address: [ahmad0936@yahoo.com](mailto:ahmad0936@yahoo.com); [Khanahmad@aup.edu.pk](mailto:Khanahmad@aup.edu.pk)



[Google Scholar](#) | [Research Gate](#) | [ORCID](#)

---

### **Academic awards & Sponsorships**

#### **International Experts to Forestry College, Northwest A&F University**

Invited by Prof. Dr. Pan Wan to the Forestry College as an International expert for 22 days between 7 to 28 September 2025

#### **Bonn International Fellowship Award-2025**

Awarded with the prestigious Bonn International Award-2025 for a 12-day research collaboration with Prof. Thomas Döring at Bonn University, Germany

#### **Best Reviewer of the year (2018)**

Presented by International J. of Agricultural & Environmental Sciences (IJAER) published by the Abdul Wali Khan University Mardan, Pakistan

#### **Alexander von Humboldt Fellowship Award -2014**

Alexander von Humboldt (AvH) Fellow at Georg August University, Göttingen, Büsgenweg 2, 37077 Göttingen, Germany for Postdoc under the supervision of Prof. Yakov Kuzyakov.

#### **Australia Endeavour Award -2011**

Endeavour Fellow at School of Earth and Environment, The University of Western Australia, Perth for Postdoc studies under the supervision Prof. Mark Tibbett.

#### **Funding for Research Network workshop-2010**

Received Rs. 166,400/- from HEC & British Council under INSPIRE Program, for development of sustainable and collaborative Research Network workshop.

#### **Erasmus Mound Program for Research Presentation Funding -2010**

Presentation of research papers in Int. conferences: Nepal-2010 funded by Erasmus Mound Program, University Dublin College, Ireland.

#### **Int. Research Support Initiative Program of HEC-2007**

Six months research fellowship from University of Bangor, UK under the supervision of Dr. Philip Hollington to pursue a part of Ph. D research funded by HEC

#### **Indigenous PhD. Fellowship by HEC-2005**

Full funding for PhD studies by Higher Education Commission of Pakistan.

#### **Silver medal in M.Sc. (Hons)-2004**

Received silver medal on obtaining 2nd position among all the MSc (Hons) students for the session 2003-2004

### **Area of specialty**

Sustainable crop production through soil–plant–microbial interactions and C & N cycling for climate-resilient agriculture



Scopus



ORCID  
Connecting Research  
and Researchers

Clarivate™



## Research focus/Interest

My research focuses on sustainable crop production by unraveling soil organic matter dynamics, nutrient cycling, and plant–soil–microbe interactions. I integrate manure/residue and waste management, isotopic tracing, and crop modeling to improve soil quality, enhance carbon and nitrogen sequestration, and develop climate-resilient agronomic practices for diverse cropping systems.

## SPECIFIC SKILLS

- **Quantitative and modeling expertise:** Advanced experience with statistical software (R, SPSS, Statistica, Statistix, Minitab, SigmaPlot) for data analysis and visualization. Skilled in crop and climate modeling (DSSAT) and meta-analytical approaches for evaluating soil and crop responses.
- **Field and laboratory research:** Strong background in designing and managing long-term field experiments on sustainable crop production, residue management, and tillage. Laboratory expertise in soil fertility assessment, nutrient transformation processes, isotopic tracing ( $^{13}\text{C}/^{15}\text{N}$ ), and carbon–nitrogen cycling.
- **Teaching and Supervision:** Sixteen years of teaching agronomy-related courses at undergraduate, MSc, and PhD levels. Supervised over 30 Master's and 5 PhD students, with focus on soil–plant–microbe interactions, carbon sequestration, and sustainable agronomic practices.
- **Research leadership and Outreach:** Experience as PI and Co-PI on national and international projects. Organized workshops, conferences, and field days to connect researchers, students, and farmers, emphasizing participatory approaches to sustainable crop production and climate resilience.

## TEACHING & RESEARCH EXPERIENCE

- Total teaching Experience up to 20/08/2024 = 16 years, 4 months & 12 days
- Working as full Professor (Tenured) in the Department of Agronomy, The University of Agriculture, Peshawar since May 19, 2023.
- Worked as Associate Professor (Tenured) in the Department of Agronomy, The University of Agriculture, Peshawar since November 22, 2018 till May 18, 2023.
- Worked as Assistant Professor (TTS) in the Department of Agronomy, The University of Agriculture, Peshawar since December 29, 2009 till November 21, 2018.
- Worked as lecturer (BS-18) in the Department of Agronomy, The University of Agriculture, Peshawar since March 8, 2008 to December 28, 2009.
- Worked as Research fellow for 16-months (Feb.,2003-June,2005) in “Pak-China collaborative research Project on enhancing wheat productivity under rainfed conditions (16-410)”

## ADMINISTRATIVE RESPONSIBILITY

- Worked as Assistant Warden Since October 7, 2010 to May 1, 2011 in hostel No. 7, Khyber Pakhtunkhwa Agricultural University Peshawar

## ACADEMIC QUALIFICATION

Certificate/ Degree	Date obtained	Marks	% marks	Grade	Subjects	Institute
Post-doc (3 months)	12/09/2023	-	-	-	Soil Sci. & Plant Nutr.	Rhinewall University of Applied Sci. Kleve Germany
Post-doc (3 months)	07/09/2019	-	-	-	Plant Nutr. & Soil Sci.	University of Kiel, Germany
Post-doc (16 months)	09/10/2015	-	-	-	Agric. Soil Sci.	Georg August Uni., Goettingen Germany



Scopus



Post-doc (6-months)	1/11/2011	-	-	-	Earth & Environmen t	The Uni. of Western Australia, Perth
PhD	25/6/2009	CGPA 3.89/4.00	88.83	A	Agronomy	The Uni. of Agriculture Peshawar
M. Sc (Hons)	11/12/2004	CGPA 4.00/4.00	95.55	A+	Agronomy	The Uni. of Agriculture Peshawar
B. Sc (Hons)	13/1/2003	CGPA 3.80/4.00	86.16	A	Agronomy	The Uni. of Agriculture Peshawar
F. Sc	1998	751/1100	68.27	B	Pre-medical	PG Jehanzeb College Swat
SSC	1996	624/850	73.73	A	Science	GHS Asbanr Dir

## **PROJECTS**

S. No.	Title	Role	Funds Rs. (million)	Duration	Donor	Status
1	Building soil organic matter using integrated nutrients management approach for improving cereal productivity, nitrogen dynamics and Carbon budget	PI	7.67	Nov, 16 to Nov, 19	HEC, Pakistan	Completed
2	Exploiting the genetic diversity of traditional and novel cultivars/germplasm of wheat to optimize the nutritional value of wheat forage for ruminant livestock in Pakistan	Co-PI	1.1523	March, 2017 to January, 2018	AIP-ILRI	Completed
3	Optimizing the nutritive values of maize silages in relation to dairy cow performance and milk quality	Co-PI	3.499	July 19 to July 21	ALP, PARC	Completed

## **STUDENT SUPERVISED**

	Ph D		M. Sc (Hons)		B. Sc (Hons)	
	Degree awarded	Under supervision	Degree awarded	Under supervision	Degree awarded	Under supervision
Major supervisor	5	2	31	11	28	15
Member supervisory committee	4	5	33	18	-	-

## **Publications**

**H Index (5 years): 25, H Index (total): 31, Total Citation: 3447**

**Total Impact factors publications: 66**

**Total non-IF publications: 37**

**Conference/proceedings: 09**



Scopus



ORCID  
Connecting Research  
and Researchers



## **INVITED AS INTERNATIONAL EXPERTS TALKS**

- May 2025, Department of Agroecology and Organic Farming, The University of Bonn, Germany talk “From data to decisions: advanced statistical visualization of agronomic insights for sustainable soil health in integrated organic and inorganic farming” on 14-05-2025.
- September 2025, Xiaolongshan Forestry Protection Center, talk “Bridging agriculture and forestry: collaborative research for sustainable land management and biodiversity conservation” on 12-09-2025
- September 2025, Forestry College, Northwest A & F University, Yangling Xi’an, China “Statistical visualization of data for understanding soil ecosystem functionality and plant production in Agroforestry system” on 22-09-2025

## **RESOURCE PERSON IN A TRAINING/WORKSHOP**

- Invited International Keynote Speaker for “International symposium on genetic breeding and cultivation technology for integration of industry, education, research and application” held on 1-4 December 2023 at Guangxi University China.
- Resources person talks on Weed management in Chickpea” in a training organized by Department of Weed Sciences, the University of Agriculture Peshawar on 26/01/2023.
- Participated and help in organizing a training “ practical demonstration of Kubota Rice Transplanter” jointly organized by Department of Agronomy and Meskay & Femtee trading Company on July 27, 2022
- Worked as a keynote speaker at 1st International Conference on “Innovations in Agriculture to Ensure Global Food Security Theme: Threats to Agriculture Being Faced by Climate Change (November 10, 2021) hosted by The Islamia University of Bahawalpur (IUB), Punjab, PAKISTAN
- Worked as a Resource Person and delivered training to Researchers and students on Research Tools & Technique: Citation Management, using EndNote” Organized by Dr. Kawsur Ali, funded by UNDP at the Department of Agriculture, Abdul Wali Khan University, Mardan Pakistan. April 4-5, 2019
- Worked as a Resource Person and delivered training to Researchers and students on Data validation, analysis and statistical techniques, in a workshop “Integration of ICT in Agriculture and Applied Research” organized by Colleagues, the University of Agriculture, Peshawar Pakistan on February 21, 2019.
- Worked as a Resource Person and delivered training to Researchers and students on Research Tools & Technique: Citation Management, using EndNote” Organized by Dr. Noreen Asim, December 6, 2017 at IBJE, the University of Agriculture Peshawar Pakistan
- Worked as Resource person in a training “How to write a worth publishing research paper” organized by Prof. Dr. Mohammad Arif, October 18-19, 2017 at the University of Agriculture Peshawar and PASTIC
- Invited Speaker in a two-days international conference “Innovations in Agriculture” organized by IBGE and Agronomy, The University of Agriculture Peshawar, 28-29 March 2017
- Worked as a Resource Person and delivered training to Teachers, and researchers on “advanced statistical technique” in a training organized by AUTA, UoA, Peshawar on February 6, 2014.
- Worked as a Resource Person and delivered training to teachers, researchers and students on “literature citation using Endnote software, making graphs and table” in a training organized by AUTA, UoA, and Peshawar on March 3-4, 2014.

## **Workshop organized as a member**

- Contributed significantly in organizing a two days national conference on “Beneficial microbes and sustainable crop production” held on February 19 -20, 2020 at the Department of Agronomy, The University of Agriculture, Peshawar, as organizing committee member



Scopus



ORCID  
Connecting Research  
and Researchers



- Contributed significantly in organizing a two days national conference on “Strategies for Ensuring Food Security in the Changing Climate” held on October 23 -24, 2019 at the Department of Agronomy, The University of Agriculture, Peshawar, as organizing committee member
- Significantly contributed in organizing a one-day workshop “How to write a winning Research Proposal” on 26 December, 2018 at The University of Agriculture Peshawar
- Significantly contributed in organizing a three days international conference “Biofortification of staple food crops” on 24-26 September, 2018 at the department of Agronomy, The University of Agriculture Peshawar
- Significantly contributed in organizing a two days national conference “Climatic Smart Agriculture and Crop Modeling” on 18-19 April, 2018 at the department of Agronomy, The University of Agriculture Peshawar



Scopus



ORCID

Connecting Research  
and Researchers





## **WORKSHOP ATTENDED AND TRAINING RECEIVED**

1. **Participation:** A course on “the use of Isotope Methods in Soil Research” from 23.2.-27.2.2015 with 3 Credits” at Georg August University, Germany
2. **Training Course:** Successfully completed a training course on “Terrestrial Carbon Accounting for REDD+” organized by PFI, Peshawar from 22 to 25 November 2016.
3. **Participation:** Training on crop modeling and climatic change for 3 days (4 to 6 June, 2013), organized by Department of Agronomy, University of Agriculture Faisalabad.
4. **Participation:** Applied Quantitative Techniques and data analysis for Researchers using SPSS 20 and Amoze V. 20. The Uni. of Agric. Peshawar (24-25 February, 2012)
5. **Participation:** International Symposium on Institutional Linkages for Agricultural Development in Pakistan. Organized by HEC and The Uni. of Agric. Peshawar, (Dec. 20-21, 2010).
6. **Participation:** In “Talented Research Exchange cascading workshop” organized by British Council at Higher Education Commission Pakistan 17-18 June 2010
7. **Participation:** Two days workshop on “ Project Management” organized by Director, P & D, The University of Agriculture, Peshawar, 2-3 April, 2010.
8. **Training:** Obtained a formal training on “CN analyzer elementar’ at the department of Agronomy, The Uni. of Agric. Peshawar, February 27 to March 4, 2010.
9. **Participation:** Research reports writing and presentation in plant sciences” The Uni. of Agric. Peshawar (10th to 15 March 2008)
10. **Participation:** Six days conference “Response to Challenges of Globalization in Agriculture” arranged by AUTA between 2nd and 7th July, 2008 at Peshawar Summer Camp, Bara Gali.
11. **Training:** Nuclear and other Advanced Techniques in Food and Agricultural Research” NIFA Peshawar (4th to 15th December, 2006)
12. **Participation:** 2<sup>nd</sup> international workshop on Agriculture Research and Methodology” British Council, HEC (May, 2005)
13. **Participation:** Sustainable Agriculture, Development in NWFP” Organized by Director Outreach, 25-26 June, 2003 at Directorate of Outreach, Agricultural Research System, Agricultural University Peshawar.
14. **Participation:** Seed Production Technology, Organized by Director Outreach, 28th June, 2003 at Directorate of Outreach, Agricultural Research System, Agricultural University Peshawar.

## **Membership of the societies**

- Weed Science society, Soil Science Society & Agronomy society of Pakistan
- Australian Society of Agronomy (2017-2019)
- International member of Centre for Environment and Economic Development, South Asian Region

## **Journal Editorial and manuscript reviewing services**

Reviewed manuscript for Science of total Environment, Soil Science Society (USA), Agronomy Journal (USA), Soil and Tillage Research, Clean soil air-water, Archive of Agronomy and Soil Sciences, International Journal of Agricultural and Environmental Research, Sarhad Journal of Agriculture, Australian Journal of Crop Science, Journal of Mountain Agriculture, Pakistan J. of Weed Science, J. of Soil and Environment, Journal of Plant and Environment, MDPI Journals etc. (Verified reviewer on Publons. Com)

## **REFERENCES**

Dr. Habib Akbar

Professor & Chairman , Department of Agronomy , The University of Agriculture, Peshawar

Ph. No. +92-91-9212229, E-mail: [drhakbar@gmail.com](mailto:drhakbar@gmail.com)

Prof. Dr. Yakov Kuzyakov

Department of Soil Science of Temperate Ecosystems Georg August University of Göttingen

Büsengweg 2, 37077 Göttingen, Germany Tel.: +49 -(0)551-399765 Email: [kuzyakov@gwdg.de](mailto:kuzyakov@gwdg.de)



Scopus



Prof. Dr. Karl H. Muehling

Institute of Plant Nutrition and Soil Science, Faculty of Agricultural and Nutritional Sciences Kiel University

Hermann-Rodewald-Strasse 2, D-24118 Kiel, Germany, Phone: +49(0)431-880-3189, Email:

[khmuehling@plantnutrition.uni-kiel.de](mailto:khmuehling@plantnutrition.uni-kiel.de)

Prof. Dr. Florian Wichern

Director, Department of Soil Sciences and Plant Nutrition, Rhinewall University of Applied Sciences, Marie-Curie-Straße 1, 47533 Kleve, Germany , Phone: 02821/80673-234;

Email: [florian.wichern@hochschule-rhein-waal.de](mailto:florian.wichern@hochschule-rhein-waal.de)

Dr Phil Hollington

CAZS Natural Resources, College of Natural Sciences , Bangor University LL57 2UW, Wales, UK

Phone +44 (0)1248 382285, Fax: +44 (0)1248 364717, Email: [p.a.hollington@bangor.ac.uk](mailto:p.a.hollington@bangor.ac.uk)



Scopus



ORCID

Connecting Research  
and Researchers

