Curriculum vitae

Objective:

To work with an aim to gain valuable hands on experience and professional skills in an institute which provide a challenging, learning and developing atmosphere.



Name: DR. MANZOOR AHMAD

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Academic Qualification:

*** Specialization: Soil & Environmental Sciences**

*** Post Graduate Diploma: Natural Resources Management (NRM) Environmental Sci. Department University of Peshawar. (2006-7)**

Experience

Working as "**Associate Professor (Tenured)**" in the Department of Agriculture Bacha Khan University Charsadda Pakistan, Since 1 September, 2022 to date).

Worked as "Assistant Professor" in the Department of Agriculture Bacha Khan University Charsadda Pakistan, from 21 October 2013 to 31 August 2022).

Other Activities:

- Working as Additional **Director Financial Aid's** Bacha Khan University Charsadda since 23 August 2021 to date…
- Working as **Super Focal Person** for Prime Minister Youth Laptop Scheme Phase-III & IV of the University.
- Member of BOS (Board of Studies) Soil & Environmental Sciences Department, The University of Agriculture Swat.
- Member of GSC (Graduate Study Committee) Department of Botany Bacha Khan University Charsadda (BKUC)
- Member of University Purchase Committee Bacha Khan University Charsadda (BKUC) (2017-25)

Soil Science Society of Pakistan:

"Life Member" Soil Science Society of Pakistan.

Elected Member of the Executive Council (KP Councillor, 2023-24), of Soil Science Society of Pakistan.

Research Project:

The following (SRGP) Project as Principal Investigator has been successfully completed during the specified period of time funded by HEC.	
Principal Investigator (PI)	Dr. Manzoor Ahmad
Title of the Research Project	Fortification of rock phosphate derived SSP and Zinc sulphate for enhanced Zn nutrition to wheat crop under calcareous soil condition.
Approved Budget	0.946 m

International/National Conferences:

1. Member of Organizer Committee: International Conference on "Breakthrough in Pakistan's Economic Development Through Technological Innovative in Agriculture- A Policy Approach (July29-31, 2024)
2. Member of Organizing Committee: International Conference on "Socio Economic Development in Pakistan & Regional Connectivity Under CPEC with Special Focus on Agriculture Sector" (September 19-20, 2023) at Bacha Khan University Charsadda.
3. Co-Organizer of National Seminar "Innovative Technologies for Soil Management Under Changing Climate" COMSAT University Islamabad, Abbottabad Campus June 15, 2023.

Supervision of M.Sc (H)/M.Phils. Students:

S. No	Student's Names	Thesis Title	Session (Year)
1	Shams Ul Haq	Effect of Different Levels and Method of Application of $ZnSO_4$ on Yield Yields Components of Maize	2023-25
2	Sajid Ali	Enhancing Wheat Yield and Zinc Uptake Through Integrated Use of Zn, FYM and Sulphur with and Without Beneficial Microbes. (Major Supervisor)	2023-24
3	Roshna Ahmad	Optimizing Soil Moisture Reduction for Root and Shoot Growth of Maize Varieties. (Major Supervisor)	2021-23
4	Amjad Ali	Managing Seed Rate and Different Sowing Methods for Growth and Development of Wheat Crop in District Charsadda. (Major Supervisor)	2020-22
5	Muhammad Ishaq	Managing phosphorous availability from various sources Organic and Inorganic sources for wheat Production in Khyber Pakhtunkhwa. (Major Supervisor).	2017-18

Contribution in Book Chapters

1. **Title of Book:** Plant growth Regulators for Climate-Smart Agriculture.
   Title of Chapter: Cross-Talk Between Phytohormone-Signalling Pathways Under Abiotic Stress Conditions.

Publisher: CRC Press Taylor and Francis Group Boca Raton London New York 2021

2. **Title of Book:** Sustainable Agriculture Reviews 61: Biochar to Improve Crop Production and Decrease Plant Stress Under a Changing Climate. (Springer, 2023).
   Title of Chapter: Biochar to Improve Crops Yield and Quality Under a Changing Climate.
   Publisher: © The Author(s), under exclusive license to Springer Nature Switzerland AG 2023 S. Fahad et al. (eds.), Sustainable Agriculture Reviews 61, Sustainable Agriculture Reviews 61, https://doi.org/10.1007/978-3-031-26983-7_2.

3. Ahmad, M., H. Iftikhar, R. Jalal and S. A. S. Bacha. 2026. Agronomy. Keys of Agriculture. Dastaan Publishers: 39-57. ISBN 978-627-526-074-5.

Publications

1. Maria M., W. Ahmad, D. Muhammad, M. Adnan, B. Saeed, M. A. Thair, M. Ahmad, and M. Romman. (2026). Elucidating the phytoremediation Potential of Aquatic Macrophytes for Cd, Cr, Pb Under Varying pH and Salinity. https://doi.org/10.1080/15226514.2026.2642353.
2. H. Mujtaba, F.U. Khan, M. Sufyan, I. U. Din, **M. Ahmad** and A. Shah. 2025. "Utilizing Genetic Resources to Develop Yellow rust resistant and High Yielding Wheat Genotype across Diverse environment". Genet Resour Crop Evol https://doi.org/10.1007/s10722-025-02374-3. **(IF: 1.60)**.
3. Shahzad. A. D. Muhammad, R. Ullah, M. Adan, M. F. A. Alaida, M. Ahmad, A. Altalhi, and M. O. I. Ghobshy. 2025. Interactive Effect of Humic Acid and Farmyard Manure on Soil Health and Microbial Activity in Calcareous Soil. Pak. J. Bot., 57(3): DOI:http://dx.doi.org/10.30848/PJB2025-33(17). **(IF 1.6)**
4. Z. Hussain, RS. Amin, W. A. Shah, **M. Ahmad**., A. Alam, R. Khan, S, m. Rasheed and Attahullah, 2025. "Integrated Weed Control though Seed Priming, Irrigation and Nitrogen in Wheat. J. of Crop Health. 2025)7 7:54. (https://doi.org/10.1007/s10343-025-01116-w).
5. A. Basir., S. Iqbal, M. Adnan, M.A. Khan, S. Fahad, B. Saeed, M. Ahmad, I. A. Askar., Z. Erden, A. E. Sabagh., (2024) Integration of Compost

With Mineral NPK Fertilizer Improving Yield and Soil Health. Pak. J. Bot., 57(3): DOI: http://dx.doi.org/10.30848/PJB2025-3(19).

6. Umar Shah. F. Akbar Jan., Rahat Ullah, Wajidullah, Naimat Ullah and **M. Ahmad**. (2023). Photocatalytic Degradation of Acidic and Basic Dye by ZnS and Tiny Doped ZnS Nanocatalyst. Iranian J. of Sci. https://doi.org/10.1007/s40995-023-01462-2. **(IF 1.553)**
7. **M. Ahmad**. M. Ishaq, W. A. Shah, M. Adnan, S. Fahad, F. U. Khan, M. Mussarat, S. Khan, B. Ali, and M. Hashem. 2022. Managing Phosphorus Availability from Organic and Inorganic Sources for Optimum Wheat Production in Calcareous Soils. s. Sustainability 2022, 14, 7669. https://doi.org/10.3390/ su14137669. **(IF 3.86)**.
8. M. Adnan, S. Fahad, M. H. Saleem, B. Ali, M. Mussarat, R. Ullah, Amanullah Jr, M. Arif, M. Ahmad, W. A. Shah, F. Wahid, S. Saud., C. Wu, S. Danish and R. A. Marc. 2022. Comparative efficacy of Phosphorous Supplements with Phosphate Solubilizing bacteria for Optimizing Wheat yield in Calcareous Soils. Scientific Reports. 12:11997 https://doi.org/10.1038/s41598-022-16035-3. **(IF 5.7)**.
9. Khan. M, Irfan M, Muhammad A, Ullah I, Ali M, Nawaz S, Khalil MK and Ahmad. M., 2022. A practical and economical strategy to mitigate salinity stress through seed priming. Front. Environ. Sci. 10:991977. doi: 10.3389/fenvs.2022.9919. **(IF 5.4)**.
10. Aman. Khan., M. A. Khan., F. Wahid, A. Ali, A. M. Khattak, I. Khan, M. Fawad., and **M. Ahmad** 2022. Weed as Alternative Organic Fertilizer in Garlic (Allium sativum L.) Production. Gesunde Pflanzen. https://doi.org/10.1007/s10343-022-00714-2. **(IF 2.7)**.
11. M. A. Khan., M. Adnan., A. Basir., S. Fahad., A. Hafeez., **M. Ahmad**., F. Gul, Durrishahwar, F. Subhan and I. Ur Rahman. 2022. Impact of Tillage, Potassium Levels and Sources on Growth, Yield and Yield Attribute of Wheat. Pak. J. Bot., 55(1): http: DOI://dx.doi.org/10.30848/PJB2023-1(30). **(IF 1.6)**.
12. Amanullah, S. Khalid, A. Muhammad., M. Yar, **M. Ahmad**, H. M. Akram., Imran., A. Rahman., S. Ullah, I. Ali, S. Fahad, M. Adnan and A. Ali., S. Fahad., M. Adnan., F. Ahmad and K. Khan 2021. Integrated Use of Bio-fertilizers with Organic and Inorganic Phosphorus Sources Improve Dry Matter Partitioning and Yield of Hybrid Maize. J. of Plant Nutrition ISSN: (Print) (Online) Journal homepage: ISSN: (Print) (Online) Journal homepage: https://www.tandfonline.com/loi/lcss20 **(IF 1.9)**

13. M. Khalid., Y. Bao, G. P. Petropoulos, R. Abbas, M. M. Abrar, Saifullah, A. Mustafa, A. Soban, M. Ahmad, I. Hussain and S. Fahtad. 2021. Investigating connections between COVID-19 pandemic, air pollution and community interventions for Pakistan employing geoinformation technologies. Journal homepage: www.elsevier.com/locate/chemosphere. **(IF 6.77)**.
14. Mussarat. M, M. Shair, D. Muhammad, I. A. Mian, S. Khan, M. Adnan, S. Fahad, A E. Sabagh, A. Zia, B. Khan, H. Shahzad, S. Anwar, H. Ilahi, M. Ahmad, H. Bibi, M. Adnan and F. Khan 2021. Accentuating the Role of Nitrogen to Phosphorus Ratio on the Growth and Yield of Wheat Crop. Sustainability 2021, 13, 2253. https://doi.org/ 10.3390/su13042253. **(IF 3.25)**
15. Mussarat M, Ali H, Muhammad D, Ahmad Mian I, Khan S, Adnan M, Fahad S, Wahid F, Dawar K, Ali S, Zia A, Ahmad M, Khan S, Ali Shah W, Romman M, Parvez R, Khan A, Wang D, Jiang X. 2021. Comparing the phosphorus use efficiency of pre-treated (organically) rock phosphate with soluble P fertilizers in maize under calcareous soils. Peer. J 9: e11452 DOI 10.7717/peerj.11452. **(IF 2.86)**
16. Mussarat, M., Jamal, W. A., Muhammad, D., Ahmad, M., Saleem, A., Khan, S., Aman, F., Bibi, H., Shah, W. A., Dawar, K., Ul Akbar, N., Mian, I. A., Waheed, Zia, A., & Malik, W. (2021). Risk of heavy metals accumulation in soil and wheat grains with waste water irrigation under different NPK levels in alkaline calcareous soil. *PLOS ONE, 16*(11), e0258724. https://doi.org/10.1371/journal.pone.0258724.
17. Muhammad. I., F. Ishaq., D. Muhammad, M. J. Khan, I A. Mian, K. M. Dawar, A. Muhammad M. Ahmad, S. Anwar, S. Ali, F. U. Khan, H. Bibi, A. Kamal, M. Mussarat and W. Ullah. 2021. Effect of wheat straw derived biochar on the bioavailability of Pb, Cd and Cr using maize as test crop. J. of Saudi Chemical Society, 25(101232) **(IF 3.76)**
18. Amanullah, M. Yar, S. Khalid, M. S. Elshikh, H. M. Akram, Imran, M. Al-Tawaha, **M. Ahmad**, A. Muhammad, S. Ullah, I. Ali, S. Fahad, M. Adnan and A. Ali. 2021. Phenology, growth, productivity, and profitability of mungbean as affected by potassium and organic matter under water stress vs. no water stress conditions. J. of Plant Nutrition ISSN: (Print) (Online) Journal homepage: https://www.tandfonline.com/loi/lpla20. **(IF 1.69)**
19. Shah, W.A., M. Ahmad, Z. Hussain, S. Anwar, F. Shah, Z.H. Khan, D. Wang and Z. Yue. 2021. Proper irrigation schedule and nitrogen doze are key

determinants of wheat yield and its components. *Fresenius Environmental Bulletin*, 30(1): 93–102. **(IF 0.76).**

20. Amanullah, M., Ilyas, M., Nabi, H., Khalid, S., Ahmad, M., Muhammad, A., Ullah, S., Ali, I., Fahad, S., Adnan, M., Elshikh, M. S., Al-Tawaha, A. R. M., & Parmar, B. (2021). Integrated foliar nutrients application improve wheat (*Triticum aestivum* L.) productivity under calcareous soils in drylands. *Communications in Soil Science and Plant Analysis, 52*(21), 2748–2766. https://doi.org/10.1080/00103624.2021.1956521
21. M. Ilyas., G. Ayub., Imran., A. A. Awan and **M. Ahmad.** 2020. Calcium and Boron effects on production and quality of autumn potato Crop Under Chilling Temperature. Commun. In Soil & Plant Analysis (IF: 0.76) https://doi.org/10.1080/00103624.2020.1854286.
22. Rafiullah, M. Tariq, F. Khan, A.H. Shah, S. Fahad, F. Wahid, J. Ali, M. Adnan, M. Ahmad, M. Irfan, M. Zafar-ul-Hye, M.L. Battaglia, T. Zarei, R. Datta, I.A. Saleem, Hafeez-u-Rehman, and S. Danish. 2020. Effect of micronutrients foliar supplementation on the production and eminence of plum (Prunus domestica L.). *Quality Assurance and Safety of Crops & Foods*, 12(SP1): 32–40. https://doi.org/10.15586/qas.v12iSP1.793 (IF: 0.8)
23. AmanUllah, M. Alwahabi., M. S. Elshikh., J. Alkahtani., A. Mohammad., Imran., **M. Ahmad.,** S. Ullah and I. Ali. 2020. Phosphorus and Zinc Fertilization Improve Zinc Biofortification in Grains and Straw of Coarse Vs Fine Rice Genotypes. An Open Access J. by MDPI. Agronomy-857806) **(IF 3.95)**
24. Amanullah, Inamullah, Alkahtani, J., Elshikh, M. S., Alwahibi, M. S., Muhammad, A., Ahmad, M., & Khalid, S. (2020). Phosphorus and zinc fertilization influence crop growth rates and total biomass of coarse vs. fine types rice cultivars. *Agronomy, 10*(9), 1356. https://doi.org/10.3390/agronomy10091356 **(IF 3.95).**
25. Baloch. A., A. A. Awan., M. Ilyas., A. A. Kurd., N. Ahmad, and **M. Ahmad** (2020) Chlorophyll Content Determination in Different Olive (Olea Europaea) Cultivars Grown Under Agro-Climatic Condition of Pakistan. Balochistan. J of Eng. And applied. Sci. Res. 3(1): 2518-2706.
26. **M. Ahmad,** M. Jamal., D. Mohammad W. Shah., F.U. Khan., R.A. Khattak, Z. H. Hayat., and F. Shah 2019. Critical solution [p] in diverse calcareous soil series using adsorption equations**.** Fresinus Environ. Bulletin 28(6): 4661-4670. **(IF 0.87).**

27. Khan, Z. H., Khalil, S. K., Ikramullah, Ali, M., Iqbal, A., Islam, B., Ali, K., Ali, W., Ahmad, M., Afridi, S. G., & Shah, F. (2019). Physical characteristics of cobs and kernels in sweet corn under varying planting environments. *Fresenius Environmental Bulletin, 28*(9), 6568–6573. **(IF 0.87)**.
28. Khan, F.U., Fuentes, D., Threthowan, R., Mohammad, F. and Ahmad, M. (2019). Comparative metabolite profiling of two wheat genotypes as affected by nitrogen stress at seedling stage. *The Journal of Animal and Plant Sciences*, 29(1), 260–268. **(IF: 0.407, JCR)**
29. Khan, F.U., F. Mohammad, Raziuddin, Z. Shah, M. Ahmad and Z. Shah. 2017. Genotypic differences and genotype × nitrogen interactions for yield traits in bread wheat. *The Journal of Animal & Plant Sciences*, 27(4): 1264–1268. **(IF: 0.42)**.
30. Rasheed, S.M., Rahman, H., Ikramullah, Khan, Z.H., Ali, M., Shah, S.S., Shah, W.A., Ahmad, M., Shah, T., Iqbal, A., Khan, A.A. and Shah, F. (2016). Stability of modified double cross maize hybrids for yield parameters across four environments. *Fresenius Environmental Bulletin*, 25(6), 2113–2120. **(IF 0.87)**.
31. Jan, F. A., Ahmad, M., Shah, U., Saleem, M., Ullah, R., & Ullah, N. (2021). Synthesis, characterization and band gap tuning of neodymium (1–4%) doped zinc oxide catalyst and its application for the photocatalytic degradation of Coomassie Violet R200 dye in aqueous solution. *Journal of the Chemical Society of Pakistan, 43*(6), 726–735. https://doi.org/10.52568/000975/jcsp/43.06.2021. **(IF 0.22)**.
32. A. Alam., M. Tariq., I. Ul. Haq., J. Ali., M. Adnan., S. Fahad., M. Ahmad., S. Ahmad., F. Gul., F. Subhan., F. Wahid., and G., Yasin 2022. Co-application of Phosphorus and Sulphur Improve Yield Quality, and Nutrients Uptake in Nicotiana tabaccum L. PHILIPP AGRI SCIENTIST. Vol 105(1) 61-68. **(IF 0.7)**.
33. A. A. Awan., M. Ilyas, N. Ahmad. **M. Ahmad**, A. Ramzan, J. Ali, and M. Ali. 2020. Olive oil quality vary with cultivars and agro-climatic conditions. Pure Appl. Biol., 9(4): 2571-2576, December, 2020.
34. Zaman. S., T. Yaseen., A. Shah., M. Khan., **M. Ahmad.,** R. Gul., and G. Nawaz. (2021). Allopathic effect of Ficus carica L. against Triticum aestivum L., Zea mays L., Lactuca sativa L. and Trifolium repens L. Pure Appl. Biol., 10(1): 1-11, March, 2021.

35. Ishaq, M., **M. Ahmad**, Z. Hussain, W.A. Shah and M. Islam. 2018. Growth and Yield of Barley Varieties Response to Micro nutrients. Pure Appl. Biol., 7(2): 509-517, June, 2018.
36. Khan, B., M. Jawad, **M. Ahmad**, M. Islam and Anjum. 2018. Effect of seed rates on Yield and Oil Components of Canola Genotype. Pure and Applied Biol. Vol. 7, Issue 2, pp500-508.
37. Ramzan. M., S. Uddin, S. Shah. **M. Ahmad.**, S. Ali, B. Ahmad., and S.U. Din. 2016. Tillage & Mulching Effect of Weed dynamics and yield component on maize crop in district Peshawar in semi-arid Environment. Pak. J. Weed Sci. Res., 22(1): 95-102.
38. Naveed. M., G. Ayub., Ilyas. M., A. M. Khattak., **M. Ahmad.,** Z. Hussaian., and Luqman. 2016. Effect of different Nitrogen levels on the growth of Chrysanthemum cultivars. Int. J. of Biosciences. 8(5): 202-211.
39. Mukhtar. S., R. Ullah, G. Ayub., Ilyas. M., **M. Ahmad.,** M. Umar, and Luqman, 2016. Response of Zinnia (Zinnialelegans) cultivars to different level of Phosphorus. Int. J. of Biosciences. 8(3): 75-83.
40. Ain. Q., G. Ayub., M. Ilyas., **M. Ahmad.,** F. Begum., M. Imtiaz Khan., and K. Shah. 2016. Response of broccoli to foliar application of zinc and boron concentrations. Pure and appl. Biol., 5(4): 841-846.
41. Ilyas. M., **M. Ahmad.**, Z. Hussain., A. Saeed., F. Begum., Kamran Shah., and S. Shah. 2016. Interactive effect of calcium and magnesium on the growth and yield of tomato (Lycopersicon esculentum L.). Pure and appl. Biol., 5(4): 876-882.
42. M. I K., G. Ayub., M. Ilyas., and M. Ahmad., 2016. Growth and yield of onion as influenced by nitrogen and Phosphorus levels. Int. J of Agric. & Enviro. Res. 2(4): 346-354.
43. **Ahmad. M.**, Z. Hussain., J. Ali., M. Ilyas., and G. Ullah., 2017. Impact of tillage and mulching levels on the yield and yield components of wheat. Pure and appl. Biol., 6(1): 207-212.
44. Mukhtar. S., R. Ullah, G. Ayub., Ilyas. M., **M. Ahmad.,** M.Umar, A. A. Awan and Luqman, 2016. Response of Zinnia (Zinnialelegans) cultivars to different level of Phosphorus. Int. J. of Biosciences. 8(3): 75-83.
45. Ullah R., G. Ayub., Ilyas. M., **M. Ahmad.**, M.Umar, S. Mukhtar and S. Farooq, 2015. Growth & yield of Tomato (Lycoperscion esculentum L.) as Influenced by different level of Zinc and Boron as Foliar application. American-Eurasian J. of Agric. & Envrion. Sci. 15(12): 2495-2498.

46. Ilyas. M., G. Ayub., Z. Hussain., **M. Ahmad.**, B. bibi, A. Rashid and Luqman, 2014. Response of Tomato to Different Levels of Calcium and Magnesium Concentration. World Applied Sci. J. 31(9): 1560-1564.
47. **Ahmad. M.,** R.A. Khattak, & D. Mohammad, 2014. Humic Acid and Micronutrient Effects on Wheat yield and nutrients uptake in salt-affected Soils. Int. J. Agric. Biol, Vol. 16(5): 991-995.
48. **Ahmad. M,** M. Jamal., D. Mohammad and Amanullah Jr. 2013. Response of wheat (Triticum aestivum L.) to phosphorus application in different soil series having diverse lime content. International J. of Agron. and Plant production. Vol. 4(5), 915-927. **(IF 0.467)**.
49. **Ahmad. M,** M. Jamal., and D. Mohammad. 2013. Response of maize to different phosphorus levels under calcareous soil conditions. Sarhad J. Agri. Vol.29 (1) 2013.b
50. **Ahmad. M.,** R.A. Khattak and D. Mohammad. 2008. Soil Evaluation of Kafoor Dheri Farm for Crop production. Soil and Eviron. 27 (1): 43-51. **(IF 0.6)**.

Language skill:

English language certificate from NUML with 79.17% (Jan 2006 -June 2006)