



# MUHAMMAD NAUMAN HANIF



**NATIONALITY** Pakistani  
**SEX** Male  
**D.O.B.** 11 Jun 2000  
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## ABOUT MYSELF

I am an energetic and ambitious person who has developed a mature and responsible approach to any task I undertake, or situation that I am presented with. I have the ability to lead and work efficiently in a team. And my university life experiences helped me to groom my abilities. Especially my master's research titled "**Risk Assessment of Pesticide Residues in Cauliflower Grown in Vicinity of Multan City**" and an internship at the Pesticide Quality Control Laboratory, Multan, brought me the hands-on experience of lab skills including pesticide quality & residues assessment, soil & plant analysis, and instrumental techniques like HPLC, GC-FID, GC-MS, and various spectroscopy methods. Actively participating in the studies regarding the soil & environmental pollution, and pesticides with multiple publications and presentations at international conferences. Seeking a challenging role to contribute my skills and knowledge for the betterment of environment and sustainable agricultural practices.

## EDUCATION

- [2022-2024] **M.Sc. (Hons.) Soil Science**  
Master's (18 Years) Degree  
Muhammad Nawaz Shareef University of Agriculture, Multan  
CGPA 3.90/4.00  
*Note: The Medium of Instruction & Examination was English.*
- [2018-2022] **B.Sc. (Hons.) Agriculture**  
Bachelor's (16 Years) Degree  
Muhammad Nawaz Shareef University of Agriculture, Multan  
CGPA 3.81/4.00  
*Note: The Medium of Instruction & Examination was English.*

## EXPERIENCE

- [12/2024 to Present] **Freelance Academic Publishing Consultant (NDA-bound)**  
Provided consultancy services in academic journal management, manuscript handling, and publication workflows for multiple international academic publishers and research organizations (details withheld due to non-disclosure agreements). Worked on journal development, Open Journal Systems (OJS) management, peer-review coordination, and editorial workflows. Performed professional typesetting and formatting of research manuscripts in compliance with international journal standards. Gained extensive exposure to academic ethics, peer-review systems, plagiarism policies, and scholarly publishing standards.
- [18/08/2023 to 18/11/2023] **Studentship/Intern** at *Office of Research Innovation and Commercialization (ORIC) & Central Laboratory System (CLS)*  
During my stay at ORIC, MNS University of Agriculture, Multan (MNSUAM). I got involved in the data collection for the university rankings, handled the publications data of previous years, wrote reports regarding sustainable development goals. As the part of CLS team, my duty was to make sure students/researchers working in the laboratories are following the standard laboratory safety protocols devised by the MNSUAM. And I was responsible to make sure that the laboratory staff and students/researchers working in the laboratory are keeping their instruments, labs, and working desk clean.
- [21/02/2022 to 30/05/2022] **Intern** at *Pesticide Quality Control Laboratory Multan (Punjab) Pakistan (PQCL-Multan)*  
During my stay at PQCL-Multan I have learned a lot of things like pesticide quality assessment and I got hands on training on High Performance Liquid Chromatography (HPLC) and Gas

Chromatography (GC). This tenure gives me a lot of knowledge on pesticides besides instruments expertise.

## THESIS/DISSERTATION

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- **Hanif, M. N.** (2024). Risk Assessment of Pesticide Residues in Cauliflower Grown in Vicinity of Multan City. (Master's thesis). MNS University of Agriculture, Multan, Pakistan.

## RESEARCH PAPERS

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- Ahmed, W., Akhtar, M. N., Akhtar, M. W., **Hanif, M. N.**, Ud Din, A. S., & Mahmood, A. (2024). Calcium Carbide Induced Ethylene Regulates Seed Dormancy and Post-Germination Growth of Sweet Pepper. *Pakistan Journal of Agricultural Research*, 37(3), 223-231. DOI: 10.17582/journal.pjar/2024/37.3.223.231
- **Hanif, M. N.**, Ul-Haq, T., Akhtar, M. N., Hussain, A., & Matloob, A. (2024). Risk Assessment of Pesticide Residues in Cauliflower Grown in Vicinity of Multan City, Pakistan. *Sarhad Journal of Agriculture*, 40(4), 1164–1171. <https://doi.org/10.17582/journal.sja/2024/40.4.1164.1171>
- Akhtar, M. N., Haq, T.-U., Abbas, G., Naz, T., Iqbal, M. M., **Hanif, M. N.**, & Akhtar, M. W. (2025). Effects of soil-applied potassium on potassium use efficiency, leaf water, and biochemical attributes of cotton cultivars under reduced irrigation. *Pakistan Journal of Botany*, 57(6). [https://doi.org/10.30848/pjb2025-6\(30\)](https://doi.org/10.30848/pjb2025-6(30))

## REVIEW PAPERS

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- **Hanif, M.N.**, Akhtar, M., Abbood, N.K. et al. (2026) Silicon: A Sustainable Approach to Climate Resilience and Crop Productivity. *Silicon*. DOI: 10.1007/s12633-025-03597-w
- **Hanif, M. N.**, & Benitez, I. B. (2025). Soil Pollution in Urban Environments: Sources, Consequences, Potential Mitigation Strategies and the Importance of Sustainable Urban Development. *Water, Air, & Soil Pollution*, 236(14). <https://doi.org/10.1007/s11270-025-08421-0>
- **Hanif, M. N.**, Aijaz, N., Azam, K., Akhtar, M., Laftah, W. A., Babur, M., Abbood, N. K., & Benitez, I. B. (2024). Impact of microplastics on soil (physical and chemical) properties, soil biological properties/soil biota, and response of plants to it: a review. *International Journal of Environmental Science and Technology*. DOI: 10.1007/s13762-024-05656-y
- **Hanif, M. N.** (2023). Factors Affecting Nitrogen Use Efficiency (NUE): Meta Analysis. *Türkiye Tarımsal Araştırmalar Dergisi/Turkish Journal of Agriculture Research*, 10 (2), 231-242. DOI: 10.19159/tutad.1260531
- **Hanif, M. N.**, Abbood, N. K., Babur, M., AKhtar, M., Sun, Hao., Azam, K., Akhtar, M. N., Ain, Q. (2025). Microplastics as Pesticide Vectors in Soil: Bridging Aqueous Insights to Terrestrial Co-Contamination Risks and Ecosystem Impacts. *International Journal of Environmental Science & Technology [Under Review]*
- **Hanif, M. N.** et al. (2025). Microplastics: An Emerging Factor in the Terrestrial Carbon Cycle and Soil's Feedback. *Water, Air, & Soil Pollution. [Under Review]*

## CONFERENCES ABSTRACTS

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- **Hanif, M. N.**, Haq, T. Ul., Akhtar, M. N., Hussain, A., & Matloob A. (2024). Quantifying Pesticide Residues and Associated Risks in Cauliflower Grown in the Vicinity of Multan City. 2nd International Conference on Soil, Plant, and Environmental Health under Changing Climate” Organized on 16-17 April 2024, in Multan, Pakistan. Department of Soil & Environmental Sciences and Department of Climate Change, MNS University of Agriculture, Multan, Pakistan. <https://zenodo.org/records/11122886>.
- **Hanif, M. N.**, Haq, T. Ul., Majeed, N., Ali, A., Akhtar, M. N., Ather, M., & Sehar, S. (2024). Impact of Microplastics on Soil Physiochemical and Biological Properties. In H. N. Asghar, Z.-H. Shah, A. A. Siyal, Saifullah, M. Yousra, Z. Mushtaq, M. Iqbal, Anjum, M. Anjum, & W. Mahmood (Eds.), 20th International Congress of Soil Science on “Soil Health: A Key to Food Security” Organized on 20-22 February 2024, in Rawalpindi, Pakistan. Soil Science Society of Pakistan and PMAS-Arid Agriculture University Rawalpindi, Pakistan. <https://sss-pakistan.org/wp-content/uploads/2024/02/Abstract-Book-ICSS-2024.pdf>
- Sehar, S., Arif, M., Sana Ullah, M., Ali, A., Majeed, N., Ather, M., **Hanif, M. N.**, & Mahmood, A. (2024). Harnessing BioChar for Sustainable Agriculture: A Novel Approach to Mitigate Smog from Rice Straw. In H. N. Asghar, Z.-H. Shah, A. A. Siyal, Saifullah, M. Yousra, Z. Mushtaq, M. Iqbal, Anjum, M. Anjum, & W. Mahmood (Eds.), 20th International



Congress of Soil Science on “Soil Health: A Key to Food Security” Organized on 20-22 February 2024, in Rawalpindi, Pakistan. Soil Science Society of Pakistan and PMAS-Arid Agriculture University Rawalpindi, Pakistan. <https://sss-pakistan.org/wp-content/uploads/2024/02/Abstract-Book-ICSS-2024.pdf>

- Majeed, N., Imran, M., Sehar, S., Ather, M., Ali, A., Sana-ullah, M., Sulaiman, M., **Hanif, M. N.**, Mahmood, A., & Haq, T. Ul. (2024). Advancing Soil Health Management through GIS and Remote Sensing: A Sustainable Approach. In H. N. Asghar, Z.-H. Shah, A. A. Siyal, Saifullah, M. Yousra, Z. Mushtaq, M. Iqbal, Anjum, M. Anjum, & W. Mahmood (Eds.), 20th International Congress of Soil Science on “Soil Health: A Key to Food Security” Organized on 20-22 February 2024, in Rawalpindi, Pakistan. Soil Science Society of Pakistan and PMAS-Arid Agriculture University Rawalpindi, Pakistan. <https://sss-pakistan.org/wp-content/uploads/2024/02/Abstract-Book-ICSS-2024.pdf>
- Ali, A., Ahmad, S., Ather, M., Sehar, S., Majeed, N., **Hanif, M. N.**, Sana-ullah, M., Qureshi, A., & Mahmood, A. (2024). Soil Health in a Changing Climate: Challenges and Mitigation Strategies for Sustainable Agriculture. In H. N. Asghar, Z.-H. Shah, A. A. Siyal, Saifullah, M. Yousra, Z. Mushtaq, M. Iqbal, Anjum, M. Anjum, & W. Mahmood (Eds.), 20th International Congress of Soil Science on “Soil Health: A Key to Food Security” Organized on 20-22 February 2024, in Rawalpindi, Pakistan. Soil Science Society of Pakistan and PMAS-Arid Agriculture University Rawalpindi, Pakistan. <https://sss-pakistan.org/wp-content/uploads/2024/02/Abstract-Book-ICSS-2024.pdf>
- Ather, M., Jamshaid, M. U., Ali, A., Majeed, N., Sehar, S., Sana-ullah, M., **Hanif, M. N.**, & Mahmood, A. (2024). Sustainable Management of Agricultural ByProducts: A Strategical Approach To Bolster Food Security and Mitigate Climate Change. In H. N. Asghar, Z.-H. Shah, A. A. Siyal, Saifullah, M. Yousra, Z. Mushtaq, M. Iqbal, Anjum, M. Anjum, & W. Mahmood (Eds.), 20th International Congress of Soil Science on “Soil Health: A Key to Food Security” Organized on 20-22 February 2024, in Rawalpindi, Pakistan. Soil Science Society of Pakistan and PMAS-Arid Agriculture University Rawalpindi, Pakistan. <https://sss-pakistan.org/wp-content/uploads/2024/02/Abstract-Book-ICSS-2024.pdf>

## RESEARCH INTERESTS

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- Soil & Environmental Pollution
- Pesticides (Quality and Residues Assessment)
- Microplastics

## INSTRUMENTAL EXPERTISE

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- HPLC (Waters 2996, Perkin Elmer HPLC, and Agilent)
- GC-MS & FID
- Spectrophotometer (Hitachi uh 5300)
- EC & pH Meter
- Centrifuge
- Mechanical Shaker
- Flame-Photometer (BWB Model BWB-XP)

## HONORS & AWARDS

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- Awarded with the Laptop under the Chief Minister of Punjab Shabaz Shareef’s laptop scheme for the youth empowerment on exceptional performance in my matriculation/O-level.
- Awarded with the Ehsaas Scholarship Pakistan for under-graduate students on Merit Bases in 2020.
- Awarded with the Merit Based Scholarship-2021 from MNS-University of Agriculture, Multan on excellent performance in 3<sup>rd</sup> semester during my bachelor’s degree.
- Awarded with the Merit Based Scholarship-2022 from MNS-University of Agriculture, Multan on excellent performance in 6<sup>th</sup> semester during my bachelor’s degree.

## MEMBERSHIPS

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- Soil Science Society of Pakistan

## PEER REVIEW ACTIVITY

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- Environmental Pollutants and Bioavailability
- Journal of Biosciences and Public Health
- Journal of Experimental Biology and Agricultural Sciences
- Asian Journal of Soil Science and Plant Nutrition
- Journal of Experimental Agriculture International



## DIGITAL SKILLS

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- MS Office (Powerpoint, Word, & Excel) – **(Professional Grade)**
- Open Journal System (OJS)
- Wordpress
- PhP, HTML & CSS
- Video & Picture Editing

## LANGUAGES

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- English
- Urdu
- Saraiki
- German (Basic)
- Turkish (Basic)

## REFERENCES

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**References will be furnished on demand.**