Faculty Resume

Name	**Dr Muhammad Zahir Afridi**
Personal	Father Name: Ghulam Muhammad Date of Birth: April 19, 1976 Nationality: Pakistani Religion: Islam Marital Status: Married **Mailing Address**: Department of Agronomy, The University of Agriculture, Peshawar, Cell #: 0333-9120643 Email: drmzahir@aup.edu.pk,
Experience	**From March 1998 to July 1998.** Review and Research experiment on sunflower at Malakandher Research Farm, NWFP Agricultural University Peshawar: "Effect of plant spacing on yield and production of two sunflower hybrids". **From September 1999 to May 2000.** Research and M.Sc. (Hons) Thesis on: "Some aspects of NPK nutrition for improve yield and oil content of canola". **From January 2003 to May 2010.** **PhD** Dissertation "Partitioning of dry matter and nitrogen under fertilizer-N levels and decapitation stress in wheat". **From June 2004 To May 2007 (Equal to BPS-17)** Worked as Research Fellow in the ALP Project i.e. Improving yield and nitrogen use efficiency in cereal based cropping system.

	From January 2009 To May 2011 (BPS-17) Worked as **Agriculture Officer** in the Provisional Agriculture Extension Department, KPK. **From May 2011 To May 2012 (BPS-18)** Worked as **Lecturer** in Department of Agronomy (Amir Muhammad Khan Campus, Mardan), Faculty of Crop Production Sciences, The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan. **From May 2012 To The Present (BPS-19)** Working as **Assistant Professor** in Department of Agronomy, and worked with additional charge of HoD (Amir Muhammad Khan Campus, Mardan) till 2018, Faculty of Crop Production Sciences, The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan.
Memberships	***Soil Science Society of Pakistan.***
Graduate Students Postdocs Undergraduate Students *Honour Students*	**Ten M.Sc. (Hons) Student supervised (Their thesis titles)** i. Influence of FYM and phosphorus levels on chip budded sugarcane success and yield ii. Improving nitrogen use efficiency and wheat productivity through organic and inorganic amendments in Agro-climatic condition of Mardan iii. Effect of humic acid and phosphorus levels on wheat yield and yield components iv. Nitrogen source, its application time and potash levels effect on maize yield and yield components v. Influence of fertilizer-N-levels, its application methods and dissolvine-e-Zinc foliar spray on maize yield in Agro-climatic condition of Mardan vi. Impact of salicylic acid application time on drought tolerance in wheat under limited water supply. vii. Impact of sulfur levels and planting methods on yield and quality of linseed. viii. Effect of parthenium biomass and nitrogen levels on yield and yield components of wheat. ix. Influence of foliar boron application on yield and quality of sunflower under phosphorus levels. x. Management of oat cutting and nitrogen levels for fodder and grain production improvement in agro-climatic condition of Mardan.

	40 B.Sc. (Hons) students supervised
Service Activity	*Remained as HoD of Agronomy department*
Brief Statement of Research Interest	*Drought management in field crop* *Enhancing stress tolerance in cereal* Mineral nutrient management of crops

Publications	Afridi M.Z., Bilal, W. Iqbal, F. Munsif, M.U. Rehman, M. Musa and M.A. Saleem, (2023). Application of organic and inorganic amendments: a strategy for improving wheat productivity. Journal of Xi'an Shiyou University, Natural Science Edition. http://xisdxjxsu.asia. 19(05): 982-989. ISSN: 1673-064X. (IF = 0.97) Owais M., M.Z. Afridi, W. Iqbal, M.A. Saleem, E. Noor, M. Salman, Saifullah, S.J. Khan, M. Kalim, (2023). Vigor and viability of maize seeds as affected by nitrogen and potassium levels. Journal of Xi'an Shiyou University, Natural Science Edition. http://xisdxjxsu.asia. 19(05): 524-529. ISSN: 1673-064X. (IF = 0.97) Rehman M.U., **M.Z. Afridi**, S. Parajulia, A. Ullah, N. Ahmad, W. Iqbal, (2023). How rhizosphere affects microbes' population and availability of nutrients in the soil to plants; A review. Journal of Xi'an Shiyou University, Natural Science Edition. http://xisdxjxsu.asia. 19(04) 785-797. ISSN: 1673-064X. (IF = 0.97) Rehman M.U., **M.Z. Afridi**, A. Ullah, S. Parajulia, N. Ahmad, W. Iqbal, (2023). Uncovering the hidden world beneath our feet: how soil microbes are key players in mitigating climate change; A review. http://xisdxjxsu.asia. 19 (04):1093-1103. ISSN: 1673-064X. (IF = 0.97) Iqbal W, **M.Z. Afridi**, A. Jamal, A. Mihoub, M.F. Saeed, A. Szekely, A. Zia, M.A. Khan, A. Jarma-Orozco and M.F. Pompelli (2022). Canola seed priming and its effect on gas exchange, chlorophyll photobleaching, and enzymatic activities in response to salt stress. Sustainability (MDPI). https://doi.org/10.3390/su14159377 (IF 3.88) Munsif F., T. Shah, M. Arif, M. Jehangir, **M.Z. Afridi,** I. Ahmad, B.L. Jan, S. Alansi (2022). Combined effect of salicylic acid and potassium mitigates drought stress through the modulation of physio-biochemical attributes and key antioxidants in wheat. Saudi Journal of Biological Sciences. https://doi.org/10.1016/j.sjbs.2022.103294 (IF 4.219) Khan A, Z. Jie, D.K.Y. Tan, A. Khan, K. Akhtar, K. Xiangjun, F. Munsif, A. Iqbal, **M.Z. Afridi**, A. Ullah, S. Fahad and R.

	Zhou (2019). Changes in leaf structural and functional characteristics when changing planting density at different growth stages alters cotton lint yield under a new planting model. Agronomy, 9(12), 859; https://doi.org/10.3390/agronomy9120859 (IF 2.603) Munsif F., S.A. Shah, A. Khan, **Z. Afridi**, M. Arif, K. Ali, E. Ahmad, I. Ullah, F. Wei, D. Tang (2019). Nitrogen coupled with crop residues improved maize productivity and soil fertility under deep tillage. MITTEILUNGEN KLOSTERNEUBURG 69(9):13-29 www.mitt-klosterneuburg.com (IF 0.106) Akhtar K., W.Y. Wang, A. Khan, G.X. Ren, **M.Z. Afridi**, Y.Z. Feng and G.H. Yang (2018). Wheat straw mulching with fertilizer nitrogen: An approach for improving soil water storage and maize crop productivity. Plant Soil Environ., 64: 330–337. Akhtar K., W. Wanga, A. Khan, G. Rena, **M.Z. Afridi**, Y. Fenga, G. Yang (2018). Wheat straw mulching offset soil moisture deficient for improving physiological and growth performance of summer sown soybean. Agricultural Water Management: 211: 16-https://doi.org/10.1016/j.agwat. Iqbal M.O., **M.Z. Afridi**, M.M. Anjum, M. Ali, S. Ali and A. Khan (2018). Delayed Cutting Stage in Dual Purpose Wheat: A Better Strategy to Control Weeds and Enhance Forage Production. Agri. Res. & Tech., 15(2): http://http//dx.doi.org/10.19080/ARTOAJ.2018.15.555945 Khan M.R., K. Shah, M. Zahid, M.N. Khan, **M.Z. Afridi**, S. Iqbal, S.M.A. Shah, R. Ullah and S.J. Ahmad (2017). Morpho-agronomic and qualitative performance of various FCV tobacco exotic hybrids. Pure Appl. Biol. http://dx.doi.org/10.19045/bspab.2017.60099 Munsif F., Faryal, **M.Z. Afridi**, I. Ahmad, W. Ahmad, W. Malik and M. Rabnawaz (2017). Impact of crop row orientation on weed density and biomass and yield of wheat. Pak. J. Weed Sci. Res., 23(3): 343-350 Khan A., D.K.Y. Tan, **M.Z. Afridi**, H. Luo, S.A. Tung, M. Ajab and S. Fahad (2017). Nitrogen fertility and abiotic stresses management in cotton crop: Environ Sci Pollut Res. DOI

	10.1007/s11356-017-8920-x Khan A., D.K.Y. Tan, F. Munsif, **M.Z. Afridi**, F. Shah, F. Wei, S. Fahad and R. Zhou (2017). Nitrogen nutrition in cotton and control strategies for greenhouse gas emissions: Environ Sci Pollut Res.; DOI 10.1007/s11356-017-0131-y Khalid S., **M.Z. Afridi**, Imranuddin, Nadia, F. Nadeem, M. Aamir and Saddamullah (2017). Effect of sulfur foliar fertilization on reproductive growth and development of canola. Inter. J. Agron. and Agri. Res.;11(3): 61-67 Anjum M.M., N. Ali, M. Shafi, **M.Z. Afridi**, M.O. Iqbal and Burhan uddin (2017). Influence of varying concentrations of ammonium sulphate foliar spray on phenology and yield of canola. Int J Environ. Sci. Nat. Res.; 2 (2) DIO : 10.19080/IJESNR.2017.02.555584 Ali N., M.M. Anjum and **M.Z. Afridi** (2016). Effect of Ammonium Sulphate Foliar Spray on Grain Yield and Yield Quality of Canola. Austin Food Sci.; 1(6): 1026. Ali N, **M.Z. Afridi**, T. Jan, F. Munsif, S. Ali and A. Saleem (2016). Assessing Yield and Yield Associated Traits of Oat Genotypes Grown under the Semi-Arid Conditions of Pakistan. American-Eurasian J. Agric. & Environ. Sci., 16 (12): 1784-1789 Rab A., M.R. Khan, Sami-Ul-Haq, S. Zahid, M. Asim, **M.Z. Afridi**, M. Arif and F. Munsif (2016). Impact of biochar on mungbean yield and yield components. Pure Appl. Biol., 5(3): 632-640 Anjum, **M.Z. Afridi**, K. Akhter and V.N. Ha (2015). The influence of different combination of nitrogen and phosphorus on mungbean (Vigna radiata L.). Pure Appl. Biol.4(4):605-610 Akhtar K., **M.Z. Afridi**, M. Akbar, S. Zaheer and S. Faisal (2015).Planting densities and Nitrogen level impact on yield and yield component of maize. Pure Appl. Biol. 4(2): 217-225 Khan A.A., F. Munsif, **M. Z. Afridi**, M. Shoaib, Ziaullah, M.N. Khan, S. Fahad and M.R. Khan (2015). Efficacy of Miayalin G2 Suckericide on the yield of FCV tobacco. Pure Appl. Biol. 4(2): 181-186 Akhtar K., A. Khan, M.T. Jan, **M.Z. Afridi**, S. Ali and S. Zaheer

	(2015). Effect of humic acid and crop residue application on emergence and wheat phenology. Pure Appl. Bio. 4(1): 97-103 Khan A., F. Munsif, K. Akhtar, **M.Z. Afridi**, Zahoor, Z. Ahmad, S. Fahad, R. Ullah, F.A. Khan and M. Din (2014). Response of Fodder Maize to Various Levels of Nitrogen and Phosphorus. American Journal of Plant Sciences (5): 2323-2329. Jan M.T., M.J. Khan, Farhatullah, M. Arif, **M.Z. Afridi**, A. Khan and H. Akber (2012). Integrated management of crop residue and N fertilizer for wheat production. Pak. J. Bot., 44(6):2015-2019 Jan M.T., M.J. Khan, A. Khan, M. Arif, Farhatullah, D. Jan, M. Saeed and **M.Z. Afridi** (2011). Improving wheat productivity through source and timing of nitrogen fertilization. Pak. J. Bot., 43(2):905-914 **Afridi M.Z.**, M.T. Jan, M. Arif, and A. Jan (2010). Wheat yielding components response to different levels of fertilizer-N application time and decapitation stress. Sarhad J. Agri. vol. 26 (4):499-506 Khan M.A., G. Hassan, W.A. Shah, and **M.Z. Afridi** (2002). Duration effect of weed competition on the yield and yield components of wheat. Sarhad J. Agri. vol. 18 (3):507-509 **Afridi M.Z.**, M.T. Jan, I. Ahmad, and M.A. Khan (2002). Yielding components of canola response to NPK nutrition. Pakistan J. Argo. vol. 1 (4):133-135 **Afridi M.Z.**, M.T. Jan, and A.A. Shad (2002). Some aspects NPK nutrition for improved yield and oil content of canola. Asian J. Plant Sci. vol. 1 (5): 507-509
Research Grants and Contracts.	**<u>Research Project:</u>** Completed HEC NRPU Project No. 6309 (2.2 millions), titled "Enhancing cereal productivity through humic acid and methanol application under water stress condition"