

DR. ABDUL SATTAR**Tenured Associate Professor of Agronomy****Institute of Agronomy, Bahauddin Zakariya University Multan, Pakistan****+92 333-6204138**Web of Science: <https://www.webofscience.com/wos/author/record/ABB-0213-2022>Google Scholar: <https://scholar.google.com/citations?user=1khfyhcAAAAJ&hl=en>**Personnel**

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EDUCATION

Qualification	University/Board	Year	CGPA	Percentage
Matriculation	BISE DG Khan	2001	-	72.45
Intermediate	BISE DG Khan	2003	-	67.42
B.Sc. (Hons.) Agriculture (Agronomy)	BZU Multan- Pakistan	2007	3.31/4.0	71.69
M.Sc. (Hons.) Agronomy	University of Agriculture Faisalabad, Pakistan	2009	3.44/4.0	74.06
Ph.D. Agronomy	University of Agriculture Faisalabad, Pakistan	2014	3.89	78.78

M. Sc. (Hons.)**Thesis title**

Comparative Performance of different wheat cultivar under varying sowing dates.

Ph. D.

Evaluating the wheat performance by silicon application under late sown conditions

Thesis title	
Teaching Experience	❖ Assistant Professor on IPFP, Department of Agronomy, College of Agriculture, BZU, Bahadur Sub Campus Layyah- Pakistan from August 18, 2014 to August 17, 2015 ❖ Assistant Professor on TTS, Department of Agronomy, College of Agriculture, BZU, Bahadur Sub Campus Layyah- Pakistan from May 19, 2016 to 18 March, 2022. ❖ Associate Professor tenured, Department of Agronomy, College of Agriculture, University of Layyah- Pakistan from 19 March, 2022 to 28 Oct, 2023. ❖ Associate Professor tenured, Institute of Agronomy, Bahaiddin Zakariya University Multan- Pakistan from 28 Oct, 2023 to date
Administrative Experience	❖ Chairperson, Department of Business Administration, University of Layyah ❖ Chairman Cafeteria Committee, University of Layyah, Layyah ❖ Director Scholarship, University of Layyah, Layyah ❖ Chairman Admission Committee, University of Layyah, Layyah ❖ Member of Admission Committee, BZU, Bahadur Sub-Campus Layyah. ❖ Member of Examination Committee, College of Agriculture, BZU, Bahadur Sub-Campus Layyah ❖ Incharge transport, BZU, Bahadur Sub-Campus Layyah ❖ Assistant Superintendent Ijaz Hall, BZU, Bahadur Sub Campus Layyah ❖ Member of Time Table Committee College of Agriculture, BZU, Bahadur Campus Layyah ❖ Member of outreach Research Committee College of Agriculture, BZU, Bahaddur Campus Layyah.
Academic Distinctions	❖ Merit scholarship holder throughout the carrier ❖ Indigenous Scholarship for M. Phil leading to Ph.D program from Higher Education Commission, Pakistan ❖ Qualified GRE (General) examination arranged by Higher Education Commission, Pakistan ❖ Qualified GRE (Subject) examination arranged by University of Agriculture, Faisalabad- Pakistan

Languages and Degree of Proficiency	English	Read Good	Write Good	Speak Good
	Urdu	Excellent	Excellent	Excellent
	Punjabi	Good	Good	Excellent
	Saraiki	Good	Good	Excellent
Information Technology Skills	❖ Word Processing (MS Word) ❖ Spreadsheet (MS Excel) ❖ Presentation (MS PowerPoint) ❖ Statistical soft wares (MSTATC) ❖ Software “STATISTIX”			
Publications With Impact Factor (ISI journal)	1. Sattar, A., Sher, A., Ijaz, M., Ul-Allah, S., Abbas, T., Hussain, S., Hussain, J., Khalil, H.B., Alharbi, B.M., El-Yazied, A.A., Mahmoud, S.F., and Ibrahim, M.F.M. 2023. Silicon and Strigolactone Application Alleviates the Adversities of Cadmium Toxicity in Maize by Modulating Morpho-Physiological and Antioxidants Defense Mechanisms. <i>Agronomy</i>, 13: 2352. https://doi.org/10.3390/agronomy13092352 2. Sher, A., Ul-Allah, S., Sattar, A., Barbanti, L., & Ijaz, M. 2023. Characterizing sorghum genotypes for forage yield, hydrocyanic acid and sugar contents under arid climate conditions. <i>Plant Genetic Resources</i>, 1-7. 3. Azeem, A., S. Ul-Allah, F. Azeem, M. Naeem, A. Sattar, M. Ijaz, A. Sher. 2023. Effect of foliar applied zinc sulphate on phenotypic variability, association and heritability of yield and zinc biofortification related traits of wheat genotypes. <i>Heliyon</i>. 9: e19643 4. Abbas, A., A. Sattar, S. Ul-Allah, A. Sher, M. Ijaz, T. Abbas, M. Irfan, S. Ullah, M. Butt, M.M. Javaid, Y. Kim, A. Z. Gaafar, M. S. Elshikh, M.S. Hodhod. 2023. Foliar application of silicon and boron improves boll retention, lint yield and fiber quality traits of transgenic cotton. <i>Journal of King Saud University – Science</i>. 35(8):102858 5. Nisar, M., M. Aqeel, A. Sattar, A. Sher, M. Ijaz, S. Ul-Allah, U. Rasheed, S.M. Al-Qahtani, N.A. Al-Harbi, F. M. Alzuaibr, M.F.M. Ibrahim. 2023. Exogenous Application of Silicon and Sulfate Improved Drought Tolerance in Sunflowers through Modulation of Morpho-physiological and Antioxidant Defense Mechanisms. <i>Journal of Soil Science and Plant Nutrition</i>. https://doi.org/10.1007/s42729-023-01396-z 6. Ijaz, M., S. Ul-Allah, A. Sher, A. Sattar, K. Mahmood, S. Alamri, Y. Ali, F. Rafiq, S.M.			

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- Shaharyar, B. Ijaz, I. Hussain. 2023. Boron Fertilization Alleviates the Adverse Effects of Late Sowing in Wheat under Different Tillage Systems. *Agriculture*, 13: 1229. <https://doi.org/10.3390/Agriculture13061229>
7. Mansha, M.Z., H.M. Aatif, K. Ikram, C.M.S. Hanif, **A. Sattar**, R. Iqbal, Q.U. Zaman, S.M. Al-Qahtani, N.A. Al-Harbi, W.A. Omar, M.F.M. Ibrahim. 2023. Impact of Various Salinity Levels and *Fusarium oxysporum* as Stress Factors on the Morpho-Physiological and Yield Attributes of Onion. *Horticulturae* 9: 786. <https://doi.org/10.3390/horticulturae9070786>
 8. **Sattar, A.**, A. Sher, M. Ijaz, S. Ul-Allah, S. Hussain, U. Rasheed, J. Hussain, S.M. Al-Qahtani, N.A. Al-Harbi, S.F. Mahmoud, M.F.M. Ibrahim. 2023. Modulation of Antioxidant Defense Mechanisms and MorphoPhysiological Attributes of Wheat through Exogenous Application of Silicon and Melatonin under Water Deficit Conditions. *Sustainability* 15: 7426. <https://doi.org/10.3390/su15097426>
 9. Sher, A., M.U. Hassan, **A. Sattar**, S. Ul-Allah, M. Ijaz, Z. Hayyat, Y. Bibi, M. Hussain, A. Qayyum. 2023. Exogenous application of melatonin alleviates the drought stress by regulating the antioxidant systems and sugar contents in sorghum seedlings. *Biochemical Systematics and Ecology*. 107: 104620
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 11. Hussain, I., M. Ijaz, S. Ul-Allah, **A. Sattar**, A. Sher, A. Nawaz, A. Ghaffar, M.H. Rahman, S. Ahmad, I. Rasheed, O. Nasif, M.J. Ansari. 2023. Optimum Zinc Fertilization and Sowing Date Improved Growth, Yield Components, and Grain Zn Contents of Bread Wheat Under Different Tillage Systems. *Journal of Soil Science and Plant Nutrition*. 23: 2344–2353
 12. Ijaz, M., S. Ul-Allah, **A. Sattar**, A. Sher, I. Hussain, A. Nawaz, 2023. Evaluation of Various Organic Amendment Sources to Improve the Root Yield and Sugar Contents of Sugar Beet Genotypes (*Beta vulgaris* L.) under Arid Environments. *Sustainability*, 15: 3898. <https://doi.org/10.3390/su15053898>
 13. Sher, A., S. Ul-Allah, **A. Sattar**, M. Ijaz, A. Qayyum, A. Manaf, B. Sarwar. 2023. Agronomic seed production and oil quality evaluation of various rapeseed genotypes grown under semi-arid climatic condition - *Turkish Journal of Field Crops*. 28(1): 58-63
 14. Sher, A., M. Nawaz, Z. Hasnain, K. Mehmood, M.B. Chattha, M. Ijaz, **A. Sattar**, D. Ibrar, S. Bashir, M.M. Khan et al. 2022. Impact of press mud and animal manure in comparison with NPK
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 35. Ijaz, M., **A. Sattar**, A. Sher, S. Ul-Allah, M. Z. Mansha, K. A. Khan, M.A. Shahzad, A.M. Al-Sadi, M. Arif, B.S. Aljuaid, A.M. El-Shehawi, and S. Farooq, 2021. Sulfur Application Combined with Planomicrobium sp. Strain MSSA-10 and Farmyard Manure Biochar Helps in the Management of Charcoal Rot Disease in sunflower (*Helianthus annuus* L.) Sustainability. 13(15): 8535. <https://doi.org/10.3390/su13158535>.
 36. Sher, A. X. Wang, **A. Sattar**, M. Ijaz, S. Ul-Allah, M. Nasrullah, Y. Bibi, A. Manaf, S. Fiaz, and A. Qayyum, 2021. Exogenous application of thiourea for improving the productivity and nutritional quality of bread wheat (*Triticum aestivum* L.). Agronomy, 11(7):1432. <https://doi.org/10.3390/agronomy11071432>.
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 47. Ali, S., M.A. Cheema, M.A. Wahid, M.F. Saleem and **A. Sattar**. Comparative production potential of linola and linseed under different nitrogen levels. *In: International seminar on Crop management: Issues and options*. June 01-02, 2011 at University of Agriculture, Faisalabad, Pakistan. p 15.
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55. Cheema, M.A., **A. Sattar**, S.M.A. Basra, M.A. Wahid and M.F. Saleem. 2014. Foliar applied Silicon improves water relations, chlorophyll contents and antioxidants in late wheat planting. ASA, CSSA, SSSA Annual meeting, November 2-5, 2014. Long beach CA, USA.
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Popular Urdu Articles	۱۔ پاکستان میں خوردنی تیل کی ضروریات، مسائل اور تدابیر۔ زرعی ڈائجسٹ اشاعت خاص گولڈن جوبلی مارچ ۲۰۱۱ ۲۔ گندم کی پچھیتی کاشت پر گرمی کا اثر۔ زرعی ڈائجسٹ اکتوبر ۲۰۱۱ 1. “Importance, Problems and future prospects of edible oil in Pakistan” in “Zari digest” University of Agriculture Faisalabad-Pakistan. 2. “Effect of Heat on late Sown Wheat” in “Zari digest” University of Agriculture Faisalabad-Pakistan. 3. “Biofuel is the need of future” in “Zari digest” University of Agriculture Faisalabad-Pakistan. 4. “Salinity and Sodidity” in “Zari digest” University of Agriculture Faisalabad-Pakistan. 5. “Camelina is an oil seed crop” in “Zari digest” University of Agriculture Faisalabad-Pakistan. 2013.
Monographs/ Books	1. Sattar, A. M.A. Cheema and M.A. Wahid. 2011. “Heat Stress on Late Sown Wheat” Lambert Academic Publishing Company, Germany. ISBN 978-3-8454-7057-3
National/ International Trainings/ Workshop	1. Participated in International Conference on “Climate-Resilient Smart Soil Management Focusing Food Security, Ecosystems & Environment” March 05-07, 2020; held at University of Haripur, Pakistan 2. Participated in 6th International Conference on “Sustainable Agricultural in Changing Climate: Strategies and Management” June 19-21, 2019; University of Poonch Rawalakot, Pakistan 3. Participated in 1st International Conference on “Agricultural and Biological Sciences Focusing Food Security and Climate Change” March 27-30, 2019; held at University of Haripur, Pakistan 4. Participated in International Conference on “Environmental Toxicology and Health” February 25-27, 2019, held at COMSAT University Islamabad Vehari Campus Pakistan 5. Participated in GRIP’s International Conference on “Food-Agriculture Sciences and Technologies” 15-17 January, 2019. Institute of Agriculture Sciences, University of Punjab Lahore Pakistan 6. Participated in “Hand-on-training on climate change impact assessment and adaptation strategies for wheat and groundnut production using decision support system” September

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- 5, 2019 at Department of Agronomy, PMAS Arid Agriculture University Rawalpindi.
 7. Participated in **“One day training for faculty on professional Ethics”** January 31, 2019 Bahadur Sub-Campus Layyah, Pakistan
 8. Participated in 2nd International Conference on **“Water saving and Plant Production Strategic Constraints and Implications for sustainable Agriculture”** held on March 26-28, 2019 Department of Botany, Government College University Faisalabad, Pakistan
 9. Participated in Seminar **“Weed Eradication”** in March 15, 2018, held at College of Agriculture BZU, Bahadur Sub-Campus Layyah, Pakistan
 10. Participated in 7th International and 16th National Conference on **“Plant Resources: Current Trends, Challenges and Solution”** in March 23-26, 2018, held at Department of Botany, Islamia College of Peshwar & Department of Botany, University of Peshwar
 11. Participated in 1st International and 2nd National Conference on **“Challenges and Opportunities to boost Agriculture in Changing Climate”** in March 26-28, 2018, held at College of Agriculture, BZU, Bahadur Sub-Campus Layyah, Pakistan
 12. Participated in 4th International Conference on **Agricultural and Biological Sciences (ABS2018)** in June 26-29, 2018, held at Hangzhou, Zhejiang China
 13. Participated in **“International Agricultural, Biological & Life Sciences Conference”** in September 2-6, 2018, held at Edirne, Turkey
 14. Participated in International Conference on **“Climate Smart Agriculture: the Way of Farming for 21st Century”** in October 8-9, 2018, held at MNS- University of Agriculture, Multan-Pakistan
 15. Participated in International Conference on **“Climate Change and Biodiversity”** in May 2017, held at Cholistan Institute of Desert Studies, Islamia University Bahawalpur, Pakistan.
 16. Participated in National Conference on **“Challenges & Opportunities to Boost Agriculture in Changing Climate”** in March 29-30, 2017, held at College of Agriculture, BZU, Bahadur Sub-Campus Layyah, Pakistan.
 17. Participated in International Conference on **“Safe Food for All & Food Expo”** in March 2017, held at Institute of Food Science & Nutrition, Bahauddin Zakariya University Multan Pakistan.
 18. Participated in National Seminar on **“Profitable Wheat Production in Arid Region”** from November 22, 2017, Organized by College of Agriculture, Bahauddin Zakariya University Bahadur Sub Campus, Layyah, Pakistan.
 19. Participated in International Conference on **“Significance of Potash Use in Pakistani Agriculture”** in October 4-5, 2016, held at Institute of Agricultural Sciences, University of the Punjab Lahore, Pakistan
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20. Participated in **National Conference on “Weed Science, Vegetation Management in the Era Climate Change for Sustainability”** in August 19-21, 2016, held at Shaheed Benazir Bhutto University Main Campus Sheringal, Pakistan
21. Participated in **National Seminar on “Sustainable Agriculture in Arid Climate”** from May 12, 2016, Organized by College of Agriculture, Bahauddin Zakariya University Bahadur Sub Campus, Layyah, Pakistan.
22. Participated in **National Training Course on “Environmental Management System”** from April 13, 2016 at COMSAT Institute of information Technology, Vehari, Pakistan
23. Participated in **6th National Training Course on “Modern Techniques in Research on Abiotic Stress Tolerance in Plants”** from March 14-18, 2016 at Nuclear Institute for Agriculture and Biology (NIAB), Faisalabad, Pakistan.
24. Participated in **National Workshop on “Tunnel Farming & Scientific Writing”** from February 10, 2016, Organized by College of Agriculture, Bahauddin Zakariya University Bahadur Sub Campus, Layyah, Pakistan.
25. Participated in **14th National & 5th International Conference of Botany “Climate Change and Phytodiversity: Challenges and Opportunities”** in January 13-18, 2016, held at Department Botany, University of Karachi, Pakistan
26. Participated in **National Seminar on “Vegetable Seed Production”** from December 11, 2015, Organized by University of Agriculture Faisalabad, Pakistan.

Membership of Scientific Societies

1. Member: Pakistan Society of Agronomy (PSA)
2. Member: Pakistan Society of Soil Science (PSSS)
3. Member: Pakistan Botanical Society (PBS)
4. Executive member: Society of Young Agronomist (SOYA)

Research Projects		Research Project	Funding Agency	Status	Position
	1.	Interactive effect of drought and heat stress on phenology, growth and yield of wheat	HEC	Approved	P.I.
	2.	Evaluating the potential of biochar in improving the drought tolerance in maize	BZU	Approved	P.I.
	3.	Exploring the role of silicon on growth, boll retention and lint yield of cotton	BZU	Approved	P.I.

4.	Role of organic amendments in improving the productivity of sugar beet in Thal region of Punjab, Pakistan	NRPU-HEC	Approved	Co-PI
5.	Mitigation strategies to protect the chickpea crop during the dry spell under changing climate scenario of Thal region of southern Punjab	NRPU-HEC	Approved	P.I.
