DR. MUHAMMAD IHTISHAM

Ph.D., Huazhong Agricultural University, Wuhan, China. 2014-2018

Post-doctoral fellow
as 3rd level Assistant Professor,
College of Forestry & Landscape Architecture,
Sichuan Agricultural University,
Chengdu-China

Former Consultant Horticulturist,
Peshawar Development Authority (PDA),
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Current Address: Sichuan Agricultural University, Chengdu, Sichuan-China

Permanent Address: Village & Post Office Turlandi, District Swabi, Khyber Pakhtunkhwa, Pakistan

Field of Specialization	**Horticulture, Agronomy, Agriculture**
Research Interests	Magnetic field applications in plants, Forestry, Bamboo forest/cultivation, Turfgrass, Ornamental plants, Plant nutrition, Nutrients optimization, Fertilization, Integrated performance/production, Photosynthesis, Abiotic stress tolerance, Plant physiology, Crop cultivation and production, Ecology, Extension education, Agricultural modernization, ICTs, etc.

Personal Profile

▪ **Nationality**	Pakistani
▪ **Date of birth**	14-03-1989
▪ **Sex**	Male
▪ **Marital status**	Married
▪ **Passport number**	AF1175302

Educational Background

Ph.D. in Ornamental Horticulture, 2014-2018
Huazhong Agricultural University,
Wuhan, Hubei-China
Research Areas: Warm and cool season turfgrass establishment, management, performance, fertilization, environmental stress tolerance, overseeding, nutrients optimization, Photosynthesis, ROS, Enzymatic Antioxidants

Masters (M.Sc.) in Horticulture, 2012-2014
Department of Horticulture,
The University of Agriculture, Peshawar, Pakistan

Research Title: Effect of nitrogen and potassium on the establishment of Australian grass under Peshawar conditions.

Bachelors (B.Sc.) in Horticulture, 2008-2011
Department of Horticulture,
The University of Agriculture, Peshawar, Pakistan
Internship Report: Landscaping in Capital Development Authority (CDA) Islamabad.
Objectives of Internship:

- To understand the basic horticulture and landscape activities (Soft and Hardscape) which were done by CDA.
- To acquire knowledge about landscape plant species. i.e., trees, shrubs, creepers, hedge plants, edge plants, ground covers, climbers, seasonal flowers, its importance and proper utilization.
- To identify the problems faced in the field during implementation.
- To get over all practical experience of landscaping.

Higher Secondary School Certificate (HSSC), 2005-2007
Major/Subjects: Pre-Engineering (Chemistry, Physics, Mathematics),
Government Post Graduate College Swabi, Khyber Pakhtunkhwa, Pakistan

Secondary School Certificate (SSC), 2003-2005
Major/Subjects: Science (Biology, Chemistry, Physics, Mathematics),
Government High School Turlandi Swabi, Khyber Pakhtunkhwa, Pakistan

Research Publications

1. Optimization of Nitrogen, Phosphorus, and Potassium Fertilization Rates for Overseeded Perennial Ryegrass Turf on Dormant Bermudagrass in a Transitional Climate.2018. **Front. Plant Sci.** 9:487. doi: 10.3389/fpls.2018.00487.
2. The Optimized N, P, and K Fertilization for Bermudagrass Integrated Turf Performance during the Establishment and Its Importance for the Sustainable Management of Urban Green Spaces. 2020, **MDPI-Sustainability.**
3. Magnetic field (MF) applications in plants: An overview. 2020. **MDPI-Plants.**
4. Commercial techniques for keeping date palm (Phoenix dactylifera) fruit quality and safety: a review. 2020**. Saudi Journal of Biological Sciences**
5. Current Progress and Future Prospects of Agriculture Technology: Gateway to S ustainable Agriculture. 2021. **MDPI-Sustainability**
6. Advances in rice research for abiotic stress tolerance (Book Chapter), Woodhead Publishing (WP) **Elsevier**. 2018.
7. Fruit yield and quality of Florida king peaches subjected to foliar $cacl_2$ sprays at different growth stages. **Acta Scientiarum Polonorum Hortorum Cultus**. 19(1) 2020. ISSN: 1644-0692
8. Drastic impacts of Covid-19 on food, agriculture, and economy. **2020, Pure and applied biology.**
9. Effects of nitrogen, phosphorus, and potassium fertilization on physiological and biological changes in stress tolerance of overseeded perennial ryegrass turf on

	dormant bermudagrass under cold stress conditions in transitional climate. **In process.** **10.** Performance of Flue Curved Virginia Tobacco. **International Journal of Basic & Applied Science**. IJBAS-IJENS Vol:14 No:02. **11.** Agricultural extension worker role in transfer of garlic production technology: A case study of Baluchistan province, Pakistan. **2020**. **International Journal of Biosciences.** **12.** Analyzing mobile phone usage in agricultural modernization and rural development. **2020. International journal of agricultural extension.** **13.** Germination, winter survival, and plant growth of Sophora secondiflora as affected by sowing dates and seed scarification. **2021. Sarhad Journal of Agriculture**. **14.** Correlation and heritability estimation of various morphological and physiological traits in wheat under water deficit conditions (PEG 6000). **Submitted.** **15.** Drought stress induced changes in physiochemical and agronomical traits of different wheat (Triticum aestivum L.) cultivars. **Submitted.** **16.** Scio-economic determinants of the awareness and adoption of apple production practices: a case study of Baluchistan, Pakistan**. JAPS (Under review)** **17.** The Key Role of Extension Agents in The Transfer and Adoption of Agricultural Technologies: A Literature Review. **(under review)** **18.** CRISPR-Cas9: A gateway to efficient genome editing tool in fruits and vegetables **Under review (Journal of Integrative Agriculture)** **19.** Toward Cleaner Production: Can Mobile Phone Technology Help Reduce Inorganic Fertilizer Usage? Empirical Evidence from Afghanistan. **(Submitted to Land-MDPI)** **20.** Ethnic food consumption in the COVID-19 pandemic: health and safety concerns of ethnic sojourners living in China. **(Submitted to Frontiers in Nutrition)** **21.** Potential role of technology innovation in the transformation of a sustainable food system. **(Submitted to Journal of Animal and Plant Sciences)**
Conference(s)	**1.** Attended international workshop on "Global status of Transgenic crops. November 2014, HUZA, Wuhan-China. **2.** Presented a class to university students on "How to conduct field research in agriculture". April 2016, Hubei Normal University, Huangshi-Hubei, China.
Teaching/ Professional Experience	1. Reviewer board member of SciencePG journal "Plant". 2. Reviewed research paper for prestigious academic journals, like Elsevier journals. 3. Published research, review, and book chapter in well reputed international SCI journals.

	4. Recently worked as "Consultant Horticulturist" at Peshawar Development Authority (PDA), Khyber Pakhtunkhwa, Pakistan. 5. Four years' PhD scholar experience from September 2014 to December 2018 in warm/cool season turfgrass management, physiology and environmental stresses in transitional climate at Huazhong Agriculture University, Wuhan-China. 6. Practical experience as turfgrass researcher of lawn establishment in field conditions at University of Agriculture Peshawar, Pakistan (2012-2013) and Huazhong Agriculture University, Wuhan-China (2014-2018). 7. Landscaper (softscape and hardscape) experience (September 2011 to December 2011) as B.Sc (Honors) internship in Capital Development Authority (CDA), Islamabad. 8. Agriculture Engineer at GSS International PVT Ltd. (Savannah so beautiful landscaping) Dubai (October 2013 to January 2014). 9. Practical experience of nursery management in Jumeirah garden, a brunch of 'Naz Garden' GSS International Peshawar, Pakistan. 10. February 2014 to June 2014 teaching experience at Professor Public School and College, Shewa Adda, Swabi-Pakistan.
Awards and Honors	▪ "**Chinese government scholarship (CSC)**" for PhD offered by the Government "Peoples Republic of China". ▪ 2nd position in High school examination throughout the batch. ▪ Qualified General Aptitude Test (GAT-Subject) with score 56. ▪ Award of "Prime Minister's Laptop scheme" by Prime Minister of Pakistan in MS (Hons.) Agriculture at The University of Agriculture Peshawar-Pakistan.
Language Skills	• **English**: Excellent in writing, reading, listening and speaking • **Chinese**: Spoken skills in simplified Chinese language • **Urdu**: Excellent in reading, writing and speaking • **Arabic**: Good reading and writing skills
Computer and Technical Skills	MS office, AutoCAD, Photoshop, Endnote X7, Origin, Sigma Plot, Inpage. Internet, web browsing etc. Capable of using machines used in office like photocopier, multimedia, fax, scanner etc. Full command over the operation of analytical instruments used in plant physiological labs.

References

1. **Prof. Chen Longqing**
   Professor, College of Horticulture and Forestry,
   Huazhong Agriculture University, Wuhan, China.
   Phone: +86-18672347690
   E-mail: chenlq@mail.hzau.edu.cn

2. **Prof. Noor ul Amin**
   Professor, Department of Horticulture,
   The University of Agriculture, Peshawar, K.P. Pakistan.
   Phone: +92-3339113320
   E-mail: drnoorulamin@yahoo.com

   Prof. Chen Qibing
   Professor and Dean, College of Landscape Architecture,
   Sichuan Agriculture University, Chengdu-China.
   Phone: +68-15908176968
   Email: cqb@sicau.edu.cn

3. **Dr. Raheel Anjum**
   Lecturer, Department of Management Sciences,
   Abdul Wali Khan University Mardan, Khyber Pakhtunkhwa, Pakistan
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