

CURRICULUM VITAE

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CAREER OBJECTIVE:

Passionate to contribute to advanced agriculture programs by integrating remote sensing, GIS and data driven solutions with professional expertise to improve crop performance, climate resilience, risk management and decision making at scale, while supporting sustainable value chains and innovation in global food systems.

ACADEMIC QUALIFICATIONS

Educational institutions attended	Major field of study	Degrees	CGPA	Period
University of Agriculture, Faisalabad, Pakistan	Plant Pathology	M Sc (Hons)	3.48/4.00	2011-2013
University of Agriculture, Faisalabad, Pakistan	Agriculture	B Sc (Hons)	3.29/4.00	2006-2010

AWARDS AND BURSARIES

1. ISSCT Agriculture Commission Workshop encompassing Sugarcane Agronomy, Engineering and Extension. Pattaya Thailand (August 2024).
2. Virulence profile of *Colletotrichum Falcatum* isolates causing red rot of sugarcane prevailing in Pakistan. 12th ICPP Congress. Lyon, France (August 2023).
3. A review of red rot disease of sugarcane in Pakistan. 50th Australian Plant Pathology Society (APPS) Conference. Melbourne, Australia (November 2019).
4. Biological Control in Plants Conference, Department of Plant Protection, Faculty of Agriculture, University Putra Malaysia (November 2019).
5. Virus Vector and Vice Versa Hands on Training. University of Bristol, United Kingdom (June 2019).

CERTIFICATIONS

1. Python for Geospatial Analyses using WaPOR Data, IHE DELFT Netherlands (2025)
2. WaPOR (Water Productivity Open-access portal) Concepts and Validation, FAO & IHE DELFT Netherlands (2025)
3. Fundamental of Remote Sensing, NASA USA (2025)
4. SRDB Master Trainer on Sugarcane IPDM (2025)
5. Six Easy Steps Nutrient Management Program, Sugar Research Australia (2024)
6. Crop Pest Diagnostics. CABI, United Kingdom (2020)
7. Better Cotton Accredited Trainer (2014-2017)

EMPLOYMENT RECORD

Name and address of employer	Title of position	Period
Sheikhoo Sugar Mills Lahore	Manager, Agriculture Transformation	Nov 2023 to date
Sugarcane Research & Development Board Faisalabad	Research Officer	Mar 2017 - Nov 2023
Better Cotton Islamabad	Producer Unit Manager	Mar 2014 - Mar 2017
Sugarcane Research Institute Faisalabad	Skilled DPL	Mar 2013 - Mar 2014

WORK EXPERIENCE

1. Sheikhoo Sugar Mills Limited, Pakistan.

- Developed Cane Development Plan for 2024 & 2025 for the sugar mill catchment area and ensured all resources are available well on time.
- Head of Research Farms and responsible for monitoring & evaluation of projects initiated to ensure quality standards are met.
- In charge of Agri Digitalization Programs (EO, ArcGIS, QGIS, Crop Modelling, Farm Irrigation Management, etc).
- Direct introduction of global elite sugarcane varieties into Pakistan.
- Master Trainer on sugarcane Insect Pest and Disease Management (IPDM).
- Established facilities like Greenhouse, Plant Protection and Screening Lab.
- Implementation of Best Agronomic Practices for sugarcane cultivation.
- International collaborations with world's best agricultural consultants.
- Administrative in charge of agricultural related matters.

2. Sugarcane Research and Development Board, Faisalabad, Pakistan.

- Monitoring and Evaluation of Research Projects on Sugarcane
- Developed Vision 2030 for sugarcane development in Pakistan, integrating advanced technologies such as precision agriculture, remote sensing and GIS
- Procurement of Sugarcane Germplasm (Australia, Brazil, China & USA)
- Feasibility on development of sugarcane seed farms and laboratories.
- Prepared SRDB's 5 year strategic work plan.
- Conducted sugarcane & sugar beet trials with various organizations.
- Member of SRDB committee on scientific innovation, planning and budget.
- Publication of Pakistan Sugar Journal.

3. Producer Unit Manager, Better Cotton, Pakistan.

- Managed Production Unit of atleast 3500 farmers for Better Cotton Production.
- Developed monthly planning of Zone in coordination with Field Facilitators.
- Become BCI Accredited Master Trainer in 1st year of implementation.
- Trained field team on wide range of topics to improve capacity building.
- Conducted regular monitoring visits to ensure quality of project in the Unit.
- Conducted activities to establish direct contact with the ultimate beneficiaries.
- Facilitated cotton ginners to improve BCI supply chain.

4. Skilled DPL in PARB Project at Sugarcane Research Institute, Pakistan.

- Supervised 03 experiments on sugarcane irrigation, salinity & drought.
- Worked as team member for germplasm exchange program with Sri lanka.
- Sowing, maintenance and data collection of promising varieties of sugarcane in different ecological zones of Pakistan.

MEMBERSHIP OF PROFESSIONAL BODIES

- Pakistan Society of Sugarcane Technologists - Member
- American Phytopathological Society (APS) - Member
- Arab Society of Plant Protection (ASPP) - Member
- Australasian Plant Pathology Society (APPS) - Member
- Pakistan Phytopathological Society (PPS) - Member

PUBLICATIONS

- Atiq, M., Yaqoob, F., Ahmed, N., Akram, A., Mohsin, A.N., Khan, M.E., Arshad, W.R., Jabbar, A. and Wahab, A., 2023. Appraisement of chemotherapy, plant defense activators and genetic resistance towards eye spot disease of sugarcane. *Crop and Pasture Science*, 74(10), pp.924-937.
- Abro, M.A., Jatoi, G.H., and Arshad, W.R., 2022. The efficient use of fungal bioagents for eco-friendly management of fusarium wilt disease of tomato. *Pakistan Journal of Phytopathology*, 34(2), pp.103-115.
- Afghan, S., Arshad, W.R., Khan, M.E. and Malik, K.B., 2021. Sugarcane Breeding in Pakistan. *Sugar Tech*, pp.1-11.
- Khichi, A.H., W.R. Arshad and Z. Zahoor. 2021. Life-cycle assessment of the ethanol production from molasses. *Pakistan Sugar Journal*. 36(2): 4-11.
- Habib, A., A. Mahmood, W. R. Arshad, M. Umer, F. Rasul, I. Haq and M. Usman. 2016. Crop losses and varietal response of sugarcane against red rot disease in Pakistan's Punjab province. *International Sugar Journal* 118(1411): 522-526.
- Walayat, H.M., W. R. Arshad and A. Zia. 2011. Identification of sugarcane lines with resistance to red rot. *Pakistan Journal of Phytopathology*. 23: 98-102.

BOOK CHAPTER:

- Afghan, S., Khan, M.E., **Arshad, W.R.**, and Malik, K.B., 2022. *Crop rotation, Intercropping, Weed Management and their control in Sugarcane*. Eliva Press.

REFERENCES:

1. Dr. Philippe Rott
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