

# CV Ali Raza Siddiqui (Ph.D.)

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<https://scholar.google.com/citations?user=20mAwm4AAAAJ&hl=en>

## Biography

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Dr. Ali Raza Siddiqui completed PhD in Soil Science from Department of Soil & Environmental Sciences, University of Sargodha, Pakistan. He has been visiting PhD Scholar in Soil and Water Sciences Department, IFAS, University of Florida, USA. His research work is in field of soil science with focus on soil biology and soil & environmental sciences for sustainable and eco-friendly agriculture. Moreover, he authored numerous publications including research papers, review papers, book chapters, conference papers, etc. He presented his research work at different forums nationally and internationally specifically in United State at 17th Annual Soil and Water Sciences Forum (2016) conducted by Department of Soil and Water Sciences, University of Florida & Southeast Region of the Society of Environmental Toxicology and Chemistry Meeting (2016) conducted by Society of Environmental Toxicology and Chemistry and College of Public Health & Health Professions, University of Florida. He participated in various conferences/ seminars nationally and internationally. He contributes to scientific community as a reviewer for journals. He is certified in numerous courses specifically in Sustainable Soil Management Practices Practitioner (CABI) and in Measures for Coping with Soil Salinity (FAO). He is expert in cricket turf pitches and cricket turf outfield development and management. He is member of scientific and professional societies including life member of Soil Science Society of Pakistan.

## Research Areas

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Agriculture, Soil Science, Soil Biology, Soil Fertility, Soil and Environmental Sciences, Sustainable and Eco-friendly Agriculture

## Teaching Areas

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Basic Agriculture, Advanced Agriculture, Soil Science, Soil Biology, Soil Fertility, Agro Ecology, Sustainable Soil Management Practices, Soil and Environmental Sciences, Natural Sciences, Municipal and Agro Waste Management, Sustainable and Eco-friendly Agriculture

## Work Experience

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### Lecturer

(Oct, 2023 – Present)

Department of Agriculture

Government College University Lahore, Pakistan

## **Soil Scientist**

(Feb, 2016 – Sep, 2017)

Water & Agriculture Division  
National Engineering Services Pakistan, Lahore, Pakistan

## **Teaching Assistant**

(Oct, 2015 – Feb, 2016)

Department of Soil and Environmental Sciences, College of Agriculture  
University of Sargodha, Sargodha, Pakistan

## **Administrative Experience**

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- 1- Department Coordinator for Examination (2025)
- 2- Sector Incharge (Proctor) at Government College University Lahore (Since September 2025)
- 3- Department Coordinator for Time Table (Since July 2025)
- 4- Department Coordinator for LMS (Since July 2025)
- 5- Department Library Incharge (Since July 2025)
- 6- Department Focal Person for APEL (Since July 2025)
- 7- Department Focal Person for QEC (2025)
- 8- Member admission interview committee at the Department of Agriculture, Government College University Lahore (2025)
- 9- Evaluation and marking of admission answer scripts at Government College University Lahore (2024)
- 10- Files prepared to get NOC from HEC for MS Soil Science, MS Horticulture and MS Agronomy (2024)
- 11- Office Coordinator of the Department of Agriculture, Government College University Lahore (2024)
- 12- Coordinator for Tree Plantation at KSK Campus, Government College University Lahore (2024)
- 13- Focal Person for Internship Program (Undergraduate) at Government College University Lahore (2024)
- 14- Member Ground and Garden Committee, Government College University Lahore (2023)

## **Education**

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### **Ph.D. in Soil Science**

Oct, 2021

Department of Soil and Environmental Sciences  
College of Agriculture  
University of Sargodha, Sargodha, Pakistan

Ph.D. Thesis title: "Symbiotic efficacy of chickpea influenced by co-inoculation with K-mobilizing rhizobacteria and rhizobia under varied mineral potassium fertilizers".

### **Short Term Research Scholar**

Dec, 2016

Soil and Water Sciences Department  
Institute of Food and Agricultural Sciences  
University of Florida, USA

**M.Sc. (Hons) Agriculture- Soil Science**  
Institute of Soil and Environmental Sciences  
University of Agriculture Faisalabad, Pakistan

Sep, 2008

M.Sc. (Hons) Thesis Title: “Integrated use of phosphate solubilizing rhizobacteria with and without ACC-deaminase activity and compost for improving growth and yield of wheat (*Triticum aestivum* L.) in pot trial”.

**B.Sc. (Hons) Agriculture**  
University of Agriculture Faisalabad, Pakistan

Jul, 2006

## Research Publications

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### Research Papers

1. Syed Ayyaz Javed, Muhammad Tauseef Jaffar, Muhammad Ashraf, Hossam S. El-Beltagi, Erum Rashid, Waqas Raza, **Ali Raza Siddiqui**, Rizwana Kausar “Unraveling the influence of various salinity sources on the biochemical and physiological traits and N use efficiency of maize (*Zea mays* L.)” Journal of Agronomy and Crop Science (2026) IF= 2.8
2. Syed Ayyaz Javed, Muhammad Tauseef Jaffar, Muhammad Ashraf, Muhammad Ahmed, **Ali Raza Siddiqui**, Hafiz Muhammad Bilal, Jawad Amin, Sanaullah Sattar “Optimum N Fertilization Enhances Salinity Tolerance and N use Efficiency in Maize through Modulation of Antioxidant Defense and Biochemical Pathways” Journal of Plant Growth Regulation, MDPI (2026) IF= 4.4
3. Azhar Razaq, **Ali Raza Siddiqui**, Shabana Nazeer, Adeel Shahid, Muhammad Awais Piracha, Syed Ayyaz Javed, Sehrish Jameel, Munaza Batool, Farhat Bashir, Muhammad Abdul Qayyum “Assessment of phosphate-solubilizing rhizobacterial strains combined with rock phosphate and compost and their effect on the growth and yield of maize (*Zea mays* L.) under field conditions” International Journal of Applied and Experimental Biology (2026).
4. Muhammad Awais Piracha, Muhammad Ashraf, Rizwana Kausar, Muhammad Asif, **Ali Raza Siddiqui**, Syed Ayyaz Javed, Abid Niaz, Zafar Abbas & Shabana Nazeer “Mitigating toxicity of arsenic in sunflower (*Helianthus annuus* L.) with phosphate rock and farmyard manure using contrasting soil textures” International Journal of Phytoremediation (2025) IF= 3.4
5. Sobia Khan, Aftab Ahmad Khan, Qudrat Ullah Khan, **Ali Raza Siddiqui**, Adeel Shahid, Sumreen Anjum, Shabana Nazeer, Zain Mushtaq, Syed Ayyaz Javed, Muhammad Awais Piracha, Farhat Bashir, Munaza Batool “Spatial Soil Salinity Assessment by Using Principle Component Analysis and Geospatial Techniques in Central Punjab, Pakistan” Journal of Agriculture and Biology (2025).
6. Adeel Shahid, Nisar Hussain, Muhammad Mansoor Javaid, **Ali Raza Siddiqui**, Muhammad Nadeem Shah “Comparative analysis of mineral nutrients composition of round gourd (*Praecitrullus fistulosus*) germplasm” Journal of Xi’an Shiyou University, Natural Science Edition (2024) IF= 5.6
7. Qurat-ul-Ain, Haseeb-ur-Rehman, Muhammad Baidar Bakht, Muhammad Nadeem Shah, Ehtisham Hassan Khan, Waqas Liaqat, **Ali Raza Siddiqui**, Nazim Hussain and Hamid Nawaz “Biochemical, Physiological and Yield Response of Canola (*Brassica Napus* L.) with Exogenous Application of Potassium and Reduced Seed Rate under Irrigation Regimes” Pakistan Journal of Botany (2024) IF= 1.0
8. F. Ahmed, Z. Mushtaq, N. Itrat, A. Hussain, A. Akhtar, M. Khurshid, I. Saeed, S. Rashid, A. Cig, F. Cig and **A. R. Siddiqui** “Integrated application of organic amendments and mycorrhizae implementation for spinach (*Spinacia oleracea*) growth and development” Pakistan Journal of Science (2023).

9. Nazeer, S., G. Sarwar, M. A. Tahir, **A. R. Siddiqui**, S. Gul, J. Sherani, and J. Ahmad. "Extenuating the detrimental effects of sodic water on agronomic, ionic, and quality attributes of fodders" *SABRAO Journal of Breeding and Genetics* (2023) IF= 1.7
10. Hussain, Sajid, Satyabrata Nanda, Muhammad Ashraf, **Ali Raza Siddiqui**, Sajid Masood, Maqsood Ahmed Khaskheli, Muhammad Suleman et al. "Interplay Impact of Exogenous Application of Abscisic Acid (ABA) and Brassinosteroids (BRs) in Rice Growth, Physiology, and Resistance under Sodium Chloride Stress" *Life* (2023) IF= 3.4
11. Nazeer, Shabana, Ghulam Sarwar, Mukkram Ali Tahir, **Ali Raza Siddiqui**, Safdar Bashir, Javeria Sherani, Muhammad Awais Piracha, Jalil Ahmed, and Muhammad Ahmad. "Brackish Water Consumption to Sustain Nutrients Concentration in Berseem (*Trifolium alexandrinum* L.) Through a Leaching Fraction Stratagem" *GU Journal of Phytosciences* (2023).
12. **Siddiqui, Ali Raza**, Sher Muhammad Shahzad, Muhammad Ashraf, Tahira Yasmeen, Rizwana Kausar, Gadah Albasher, Saad Alkahtani, and Awais Shakoor. "Development and characterization of efficient k-solubilizing rhizobacteria and mesorhizobial inoculants for chickpea" *Sustainability* (2021) IF= 3.4
13. Ahmedani MY, ME Safdar, A Aziz, S Naz, **AR Siddiqui**, A Bano, M Suleman. "Seed priming with polyamines enhances germination, growth and biochemical contents of mungbean (*Vigna radiata* L.)" *Journal of Environment and Agriculture* (2017).
14. **Siddiqui, Ali Raza**, Shabana Nazeer, Muhammad Awais Piracha, Muhammad Masood Saleem, Iqra Siddiqi, Sher Muhammad Shahzad, and Ghulam Sarwar. "The production of biochar and its possible effects on soil properties and phosphate solubilizing bacteria" *Journal of Applied Agriculture and Biotechnology* (2016).
15. **Siddiqui AR**, SM Shahzad, M Ashraf, S Nazeer, MA Piracha, A Khalid, MM Saleem, SS Ali Zaidi. "Integrated use of P-solubilizing bacteria with and without ACC-deaminase activity and compost for improving growth and yield of wheat" *Journal of Environment and Agriculture* (2016).
16. Ullah, Ubaid, Muhammad Ashraf, Sher Muhammad Shahzad, **Ali Raza Siddiqui**, Muhammad Awais Piracha, and Muhammad Suleman. "Growth behavior of tomato (*Solanum lycopersicum* L.) under drought stress in the presence of silicon and plant growth promoting rhizobacteria" *Soil and Environment* (2016) IF= 0.7
17. Bashir, Kashif, Rizwana Kausar, Sher Muhammad Shahzad, Muhammad Ashraf, **Ali Raza Siddiqui**, Abrar Ahmad, and Muhammad Awais Piracha. "Bio-associative effect of rhizobacteria on nodulation and yield of mungbean (*Vigna radiata* L.) under saline conditions" *Journal of Applied Agriculture and Biotechnology* (2016).
18. Khan, Humaira Ramzan, Muhammad Ashraf, Sher Muhammad Shahzad, Muhammad Imtiaz, Ahsan Aziz, Muhammad Awais Piracha, and **Ali Raza Siddiqui**. "Additional application of plant nutrients with farm yard manure for improving the adaptation of cotton crop to salinity stress" *Journal of Applied Agriculture and Biotechnology* (2016).
19. Piracha, Muhammad Awais, Muhammad Ashraf, Sher Muhammad Shahzad, **Ali Raza Siddiqui**, and Shabana Nazeer. "Arsenic behavior in different textured soils amended with phosphate rock and farm yard manure" *Journal of Environment and Agriculture* (2016).
20. Shahzad, Haroon, Sana Ullah, Muhammad Iqbal, Atif Javed, Sarvet Jehan, Sajid Hussain, and **Ali Raza Siddiqui**. "Effect of various farm manure levels on root proliferation and maize growth under different soil textures" *International Journal of Modern Agriculture* (2014).

## Newspaper Articles

1. **Ali Raza Siddiqui**, Khurram Shahzad and Dr. Muhammad Arshad “Organic matter: magic for agricultural soil” published in Daily Dawn Newspaper.
2. **Ali Raza Siddiqui**, Hafeez-ur- Rehman and Safdar Bashir “Karnal bunt- a fungal wheat disease” published in Daily Dawn Newspaper.

## Book Chapters

1. **Ali Raza Siddiqui**, Ahmet Çelik, Shabana Nazeer, Munaza Batool, Farhat Bashir, Adeel Shahid, Muhammad Nadeem Shah, Muhammad Abdul Qayyum, Zain Mushtaq “K-Solubilizing Rhizobacteria and Rhizobia For Ecological Agriculture” *Water-Air-Soil for Sustainable Agriculture and People Wellbeing*, IKSAD International Publishing House (2024).
2. Zain Mushtaq, Salwa Saeed, Cihan Demir, Mehmet Firat Baran, Maleeha Islam, **Ali Raza Siddiqui** “Role of Sprayers Drone in Sustainable Agriculture” *Water-Air-Soil for Sustainable Agriculture and People Wellbeing*, IKSAD International Publishing House (2024).
3. Muhammad Nadeem Shah, Momna Hayat, Muhammad Shaheryar, **Ali Raza Siddiqui**, Adeel Shahid, Usman Arshad, Najma Tabussam, Shabir Hussain, Haseeb-Ur-Rehman, Muhammad Tanveer Altaf “Drought Stress in Cereal Crops and its Mitigation for Sustainable Production” *Water-Air-Soil for Sustainable Agriculture and People Wellbeing*, IKSAD International Publishing House (2024).
4. Irfan, Shafeeqa, Muhammad Modassar Ali Nawaz Ranjha, Bakhtawar Shafique, Muhammad Irfan Ullah, **Ali Raza Siddiqui**, and Lufeng Wang. "Bioremediation of soil: an overview." *Advances in Bioremediation and Phytoremediation for Sustainable Soil Management: Principles, Monitoring and Remediation*, Springer (2022).

## Poster Presentations

1. “Healthy Soils for Healthy Cities Ensuing Healthy Future” by Shabana Nazeer, **Ali Raza Siddiqui**, Zeeshan Aslam, Syed Ayyaz Javed, Muhammad Awais Piracha in World Soil Day on Dec 5, 2025 at Soil and Water Testing Laboratory for Research Lahore, Pakistan.
2. “Behaviour of arsenic in varied textured soils altered with rock phosphate (RP) and farmyard manure” by Shabana Nazeer, Muhammad Awais Piracha, Muhammad Ashraf, Sher Muhammad Shahzad, **Ali Raza Siddiqui** in Khad Mela, Pakistan Hort Expo Jan 28-29, 2023 at Expo Centre, Johar Town, Lahore by Agriculture Department, Government of Punjab, Lahore, Pakistan.
3. “Screening of Potassium Solubilizing Bacteria: A Sustainable Approach for K deficient Soils in Pakistan” by **Ali R. Siddiqui**, Letuzia M. De Oliveira, Sher M. Shahzad, Muhammad Ashraf, Shabana Nazeer, Bala Rathinasabapathi, Lena Q. Ma in “17th Annual Soil and Water Sciences Forum” on September 17th, 2016 conducted by Department of Soil and Water Sciences, Institute of Food and Agricultural Sciences (IFAS), University of Florida, USA.
4. “Potassium Solubilizing Rhizobacteria: An Eco-Friendly and Sustainable Agricultural approach” by **Siddiqui AR**, De Oliveira LM, Das S, Shahzad SM, Ashraf M, Nazeer S, Rathinasabapathi B, Ma LQ in “2016 Southeast Region of the Society of Environmental Toxicology and Chemistry Meeting” on September 22-24, 2016 conducted by Society of Environmental Toxicology and Chemistry (SETAC) and College of Public Health & Health Professions, University of Florida, USA.
5. “*Pteris vittata* reduced arsenic uptake by lettuce in an CCA-contaminated soil” by De Oliveira LM, Das S, **Siddiqui AR**, Rathinasabapathi B, Ma LQ in “2016 Southeast Region of the Society of Environmental Toxicology and Chemistry Meeting” on September 22-24, 2016 conducted by Society of Environmental Toxicology and Chemistry (SETAC) and College of Public Health & Health Professions, University of Florida, USA.

6. “Co-uptake of Arsenic and Fluorine in As hyperaccumulator fern *Pteris vittata*” by Das S, De Oliveira LM, **Siddiqui AR**, Ma LQ in “2016 Southeast Region of the Society of Environmental Toxicology and Chemistry Meeting” on September 22-24, 2016 conducted by Society of Environmental Toxicology and Chemistry (SETAC) and College of Public Health & Health Professions, University of Florida, USA.
7. “Rice productivity and soil health as affected by tillage systems under varying levels farm yard manure applications” by Shabana Nazeer, **Ali Raza Siddiqui** and Gul Jana Nazir in International Conference on Soil Sustainability and Food Security held on 15-17 November, 2015 organized by Institute of Soil and Environmental Sciences, University of Agriculture, Faisalabad-Punjab, Pakistan.

### Oral Presentations

1. “Co-inoculation with potassium-solubilizing bacteria and rhizobium for improving growth, nodulation and yield of chickpea under varied potassium sources” by **Ali Raza Siddiqui**, Sher Muhammad Shahzad, Shabana Nazeer, Muhammad Ashraf, Awais Piracha, Letuzia Maria De Oliveira, Muhammad Asam Riaz, Lena Q Ma and, and Muhammad Asif in National Conference on Soil Degradation: An Alarming Threat to Food Security and Environment held on March 3-4, 2022 organized by Department of Soil Science, Faculty of Agricultural Sciences & Technology, Bahauddin Zakariya University, Multan, Pakistan.
2. “Synergistic association between potassium solubilizing rhizobacteria (KSR) and rhizobia improve symbiotic performance of Chickpea (*Cicer arietinum* L.) under varying levels of potassium fertilizer” by **Ali Raza Siddiqui**, Sher Muhammad Shahzad, Muhammad Ashraf, Muhammad Saleem Arif in International Conference on Soil Sustainability and Food Security held on 15-17 November 2015 organized by Institute of Soil and Environmental Sciences, University of Agriculture, Faisalabad-Punjab, Pakistan.
3. “Management of brackish water for irrigating sunflower (*Helianthus annuus* L.) through integrated use of potassium and farm yard manure” by Muhammad Ashraf, Sher Muhammad Shahzad, **Ali Raza Siddiqui** in “International training workshop on Sustainable Agriculture Water Management in a challenging environment-A special focus on olive tree” held on Sep. 30-Oct 2, 2015 by Department of Environmental Sciences, at PMAS-AAUR-Punjab, Pakistan.

## Technical/ Certified Trainings

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- “Plagiarism and Research Integrity” by Pakistan Scientific and Technological Information Centre (PASTIC), Karachi & Pakistan Science Foundation (2026).
- “Research Analysis & Report Writing Using AI” by Pakistan Scientific and Technological Information Centre (PASTIC), Karachi & Pakistan Science Foundation (2026).
- “Research Ethics & Responsible Conduct” by Pakistan Scientific and Technological Information Centre (PASTIC), Karachi (2026).
- “Measures for Coping with Soil Salinity” by FAO (2026).
- “Sustainable Soil Management Practices Practitioner Certificate” by CABI, UK (2025)
- “Sustainable Soil Management Practices Foundation Certificate” by CABI, UK (2025)
- “Post-Harvest Management and Storage of Potato Crop” by Horticultural Society, Government College University Lahore (2024)
- “Leaf Area Index: Theory, Methods, and Application” by Meter Group, USA (2024)
- “National Faculty Development Program” by National Academy of Higher Education (NAHE), Higher Education Commission (HEC), Pakistan (2024)
- “4R Essentials- A short course in 4R Nutrient Stewardship” by Fertilizer Canada, Canada (2023)

- “The Use of Soil Survey Techniques” by Soil Survey of Punjab, Lahore (2023)
- “How to interpret Soil Moisture” by Meter Group, USA (2023)
- “Basic Data Analysis through “R” Software” by Pakistan Scientific and Technological Information Centre (PASTIC), Karachi (2023)
- “EndNote and Research Data Management” by Pakistan Scientific and Technological Information Centre (PASTIC), Karachi (2023)
- “Management Skills of Researchers” by Pakistan Scientific and Technological Information Centre (PASTIC), Karachi (2022)
- “Research Ethics” by Pakistan Scientific and Technological Information Centre (PASTIC), Karachi (2022)
- “5S (Sort, Straighten, Shine, Standardize, Sustain) Training” by UNAP and Toyota, Karachi, Pakistan (2022)
- “Let’s Break the Chain of COVID-19 Infection” by MBRU of Medicine and Health Sciences (2020)
- “Refresher Curatorship Course” at NSK by PCB (2019)
- “Refresher Curatorship Course” at MCS by PCB (2019)
- “Refresher Curatorship Course” at GSL by PCB (2019)
- “Refresher Curatorship Course” at ACS by PCB (2019)
- “Technical Training Service Program” by Honda and Nizamuddin Faridulhaq Group (2018)
- “Preliminary Curatorship Course (PC-1)” at MCS, AJK by PCB (2018)
- “TESL Undergraduate Certificate Program” by University of Florida, USA (2016)
- “Chem Hygiene Plan (PIs)” by University of Florida, USA (2016)
- “Chem Hygiene Plan (Lab Staff)” by University of Florida, USA (2016)
- “Hazardous Waste Management” by University of Florida, USA (2016)
- “Lab Safety Actions and Reactions” by University of Florida, USA (2016)
- “New Researcher Overview of Environment Health and Safety” by University of Florida, USA (2016)
- “Tractor Safety” by University of Florida, USA (2016)
- “BEC Active Shooter Training” by University of Florida, USA (2016)
- “RNA Extraction and QPCR: A Valuable Tool for Toxicology Research” by Southeast SETAC, University of Florida, USA (2016)

## **Conferences/ Seminars/ Symposiums/ Workshops/ Lectures**

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- “Women in Science and Innovation” by Pakistan Scientific and Technological Information Centre (PASTIC), Karachi & Pakistan Science Foundation (Mar, 2026).
- “Zoom into Soil: Soil Security” by British Society of Soil Science (Mar, 2026)
- “Incorporating Sustainability in Corporate Setup” by EcoRevival Pakistan (Jul, 2025)
- “Energy Sector Impacts on Climate Change” by EcoRevival Pakistan (Jul, 2025)
- “Securing Clean Water: SDG-6” by Ministry of Climate Change & Environmental Coordination (MOCC & EC) and EcoRevival Pakistan (Jul, 2025)
- “Soil health as a climate mitigation and adaptation strategy” by British Society of Soil Science (Jun, 2025)
- “Zoom into Soil: Perspectives on Regenerative Farming” by British Society of Soil Science (Jun, 2025)
- “Zoom into Soil: Soil Carbon and Artificial Intelligence” by British Society of Soil Science (May, 2025)

- “Zoom into Soil: SUM Journal and Phosphorous Use Efficiency” by British Society of Soil Science (Apr, 2025)
- “International webinar on Technological Innovation for Food Security” by Dr. Sultan Ahmad Botanical Society (DSABS), Government College University Lahore (Jan, 2025)
- “Zoom into Soil: International Governance on Soil” by British Society of Soil Science (Nov, 2024)
- “2024 Sustainable Agronomy Conference – Managing soil health and other conversation challenges” by Agronomy Society of America (Oct, 2024)
- “Zoom into Soil: Soils Critical to Brownfields First” by British Society of Soil Science (Oct, 2024)
- “Zoom into Soil: Agricultural Land Classification” by British Society of Soil Science (Sep, 2024)
- “2024 Sustainable Agronomy Conference - Putting data into action for precision nutrition” by Agronomy Society of America (Aug, 2024)
- “Zoom into Soil: Soils and Water” by British Society of Soil Science (Jul, 2024)
- “Soil biological health is dependent on soil properties and management” by Soil Science Society of America (Jun, 2024)
- Seminar on “Kitchen Gardening” by Green Youth Movement (GYM), Government College University Lahore (Jun, 2024)
- “Zoom into Soil: Sustainable Farming” by British Society of Soil Science (Jun, 2024)
- “Zoom into Soil: Carbon Sequestration” by British Society of Soil Science (May, 2024)
- “Zoom into Soil: The Benefits of Natural Processes” by British Society of Soil Science (2024).
- “One Day Seminar on River Training Works and Barrages” by Ravi Urban Development Authority & NESPAK (June, 2024)
- “A Century of American Viticulture Revisited - What’s Happened Since 2003?” by American Society for Horticultural Sciences (2024)
- “20<sup>th</sup> International Congress of Soil Science on Soil Health: A key to Food Security” by Soil Science Society of Pakistan at PMAS-Arid Agriculture University Rawalpindi, Pakistan (Feb, 2024)
- “My Climate Action, A Climate Change Conference” by Synergy Inc. at University of South Asia, Lahore, Pakistan (Nov, 2023)
- “Climate change and Green Sustainability Conference” by Synergy Inc. at NICL, LUMS, Lahore, Pakistan (Oct, 2023)
- “Climate change and Green Sustainability Conference” by Synergy Inc. at NICL, LUMS, Lahore, Pakistan (Sep, 2023)
- “Pakistan Horticulture Expo” by Agriculture Department, Government of Punjab, Lahore, Pakistan (2023)
- “National webinar Soil Pollution & SDGS” by Department of Soil and Environmental Sciences, MNS University of Agriculture, Multan, Pakistan (2023)
- “National Conference on Soil Degradation: An Alarming Threat to Food Security and Environment” by Department of Soil Science, Faculty of Agricultural Sciences & Technology, Bahauddin Zakariya University, Multan, Pakistan (2022)
- “One Day National Seminar on Punjab: Soil Fertility Challenges & Possible Remedies” by Soil Fertility Research Institute, Lahore, Pakistan (2021)
- “Optimizing the use of organic amendments and cover crops to maximize agronomic and environmental benefits” at University of Florida, USA (2016)
- “Drainage Basins as Biogeochemical Reactors” at University of Florida, USA (2016)

- “Linking biological, physical and chemical mechanisms of soil carbon sequestration with global change across scales; from soil cores to shores” at University of Florida, USA (2016)
- “The Impacts of Global Climate Change on Carbon Storage in the Salt-Marsh - Mangrove Ecotone in Florida” at University of Florida, USA (2016)
- “Functional and Comparative Genomic Analysis of *Salmonella enterica* in Tomatoes” at University of Florida, USA (2016)
- “Characterization of Interactions of Pathogens with Non-Canonical Hosts and Virulence Factors” at University of Florida, USA (2016)
- “Temporal and Spatial Variability of Irrigation Water Salinity and Effects of Irrigation Practices on Soil Salinity in the Tri-Country Agricultural Area, Northeast Florida” at University of Florida, USA (2016)
- “Soil Organic Carbon as Affected by Reforestation in Brazil: 20 Years of Research” at University of Florida, USA (2016)
- “Mitigating Environmental Risks of Wastewater Reuse for Agriculture” at University of Florida, USA (2016)
- “Southeast Region of Society of Environmental Toxicology and Chemistry Meeting” at University of Florida, USA (2016)
- “17<sup>th</sup> Annual Soil and Water Sciences Forum” at University of Florida, USA (2016)
- “International Conference on Soil Sustainability for Food Security” by Institute of Soil and Environmental Sciences, University of Agriculture, Faisalabad, Pakistan (2015)
- “International training workshop on Sustainable Agriculture Water Management in a challenging environment-A special focus on olive tree” by Department of Environmental Sciences, PMAS Arid Agriculture University Rawalpindi, Pakistan (2015)
- “International Symposium on Strategies for overcoming food security problems through utilization of rain-fed areas” at University of Sargodha, Sargodha, Pakistan (2014)
- “2nd Roshan Watan Agri. Expo and Conference” at University of Sargodha, Sargodha (2014)
- “International Symposium on Prospects of Horticultural Industry in Pakistan (Theme: Future Challenges & Production Prospects)” at University of Agriculture, Faisalabad, Pakistan (2007)

## Scholarships Awarded

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- Scholarship awarded to visit University of Florida USA by Higher Education Commission, Islamabad, Pakistan under International Research Support Initiative Program with a total amount of US \$ 12500 in 2016.
- University Merit Scholarship on academic performance during B.Sc. (Hons.) Agriculture in 2003-2004 and 2004-2005.
- Award of a Laptop by Prime Minister of Pakistan during Ph.D.

## Memberships

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- Soil Science Society of Pakistan- SSSP (Life Member)
- American Society for Microbiology (Global Outreach- Contributing Member)

- International Society for Development and Sustainability- ISDS, Japan (Associate Member)
- Soil Science Society of America- SSSA (Member, 2017)
- American Society of Horticultural Science (Early Career Member, 2024-25)
- PAKISTAN Agricultural Scientists Society (PASS, 2014)