

# Curriculum Vitae

**Dr. Wajid Nasim Jatoi**

Associate Professor/Head of Department (HoD)

Department of Environmental Sciences

COMSATS University Islamabad (CUI), Vehari Campus-Pakistan

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## Education

- ✓ **Ph.D. Agronomy** (2010). University of Agriculture, Faisalabad **Pakistan & USA** (*PhD research training from The University of Georgia, Griffin, USA*).
- ✓ **M.Sc. (Hons.) Agronomy** (2007). University of Agriculture, Faisalabad-**PAKISTAN**.
- ✓ **B.Sc. (Hons.) Agriculture** (2005). University of Agriculture, Faisalabad-**PAKISTAN**.

## Professional Experience

- ✓ **Head of Department (HoD)**, Feb. 2019- to date, Department of Environmental Sciences, COMSATS University, Vehari-**PAKISTAN**.
- ✓ **Associate Professor**, Jan 2018- to date, Department of Environmental Sciences, COMSATS University, Vehari-**PAKISTAN**.
- ✓ **Assistant Professor**, Feb. 2012 -- Dec. 2017, Department of Environmental Sciences, COMSATS Institute of Information Technology Vehari-**PAKISTAN**.
- ✓ **Post Doctorate 1 (Endeavour Visiting Scientist)**, 2015-2016, Commonwealth Scientific and Industrial Research Organization (CSIRO), Ecosystems Sciences and Sustainable Agriculture Flagship, Toowoomba, QLD, **AUSTRALIA** (Advisor : Prof. Dr. Peter Thorburn & Dr. Jeremy Whish).
- ✓ **Post Doctorate 2 (Post Doctoral Research Scientist)**, 2014-2015, Centre International de Hautes Etudes Agronomiques Mediterraneennes (CIHEAM)-Institut Agronomique Méditerranéen de Montpellier, **FRANCE** (Advisor : **Prof. Dr. Hatem Belhouchette**)
- ✓ **Assistant Professor**, 2011-2012, Department of Plant Sciences & Environnemental Sciences, Quaid-i-Azam University, Islamabad-**PAKISTAN**.
- ✓ **Visiting Scientist**, 2009-2010, Department of Agricultural and Biological Engineering, College of Agriculture & Environmental Sciences, The University of Georgia, (Griffin Campus), **USA** (Advisor : **Prof. Dr. Gerrit Hoogenboom**)
- ✓ **Researcher/Instructor**, 2005-2011, Agro-Climatology Laboratory, Department of Agronomy, University of Agriculture, Faisalabad-**PAKISTAN** (Advisor : **Prof. Dr. Ashfaq Ahmad Chattha**).

## Research Profile

### Background

- ✓ Agronomy, Crop Physiology/Ecology, Agro-Ecosystem Physiology
- ✓ Crop and Cropping System Modelling

### Research Activities

- ✓ Crop and cropping system processes and responses to management and the environment (climate, CO<sub>2</sub>, water, nutrients etc)
- ✓ Multi-scale modelling Approach
- ✓ Impact assessment, integrated assessment, risk assessment:
- ✓ Climate change on crop production, agricultural land use and food security
- ✓ Climate risk management; adaptation

## National & International Research Projects

S#	Title of Project	P.I/Co-P.I	Duration	Funding Agency
1.	Modeling the impact of climate change on	Co-P.I PKR:0.06 M	2008-2010	University of Agriculture,

	nitrogen use efficiency in sunflower		<b>Completed</b>	Faisalabad-Pakistan.
2.	Modeling the impact of climate change (CO <sub>2</sub> , Temperature, Nitrogen & Rhizobium regimes) on growth, development and yield of sunflower under controlled conditions using crop growth model	P.I <b>PKR:0.50 M</b>	2011 (April to November) <b>Completed</b>	Higher Education Commission of Pakistan
3.	Assessing climatic vulnerability and projecting crop productivity using integrated crop and economic modeling techniques	Co-P.I <b>PKR:4.2 M</b>	<b>Completed</b> (Feb., 2012- July 2014)	Agricultural Model Inter-comparison and Improvement Project (AgMIP), UK-USA funded.
4.	Development of a Household Dynamic Bio-Economic Model Application to Dedza Region, Malawi.	Member <b>PKR :22 M</b>	<b>In Progress</b> (Dec. 2014- Dec. 2016)	International Food Policy Research Institute (IFPRI), USA. <a href="http://biosight.ifpri.info/the-project-team/">http://biosight.ifpri.info/the-project-team/</a>
5.	Simulating maize yield from organic and synthetic nitrogenous fertilizers under agro-environmental conditions of Vehari-Pakistan.	P.I <b>PKR:0.20 M</b>	<b>Completed</b> 2015-2016	COMSATS Institute of Information Technology (CIIT), Islamabad.
6.	Efficient irrigation techniques for improving water use efficiency of wheat-maize cropping system in arid region using DSSAT model	Co-P.I <b>PKR:0.34 M</b>	<b>Completed</b> 2015-2017	Higher Education Commission of Pakistan. (No. 21-547 SRGP/R&D/HEC/2015)
7.	Assessing the impact of climate change on wheat & cotton grown under different types of soils in various agro-environmental conditions of southern Punjab-Pakistan.....	P.I <b>PKR:2.4 M</b>	<b>In Progress</b> 2017-2019	Higher Education Commission of Pakistan (No. 20-3393/R&D/HEC/14/448).
8.	Influence of Waste Water Irrigation in Soil, Vegetables and Human Health Issues with Respect to Heavy Metal Bioaccumulation in District Vehari	Co-P.I <b>PKR:2.35M</b>	<b>In Progress</b> 2017-2019	Higher Education Commission of Pakistan (No. 20-4423/R&D/NRPU/HEC/14/980)

### **Research Titles:**

- 1. M.Sc. Thesis: Title:** Modeling the growth, development, radiation use efficiency and yield of different wheat cultivars. (2007). Department of Agronomy, University of Agriculture, Faisalabad-PAKISTAN. (PP: 130).
- 2. PhD Thesis: Title:** Modeling the impact of climate change on nitrogen use efficiency in sunflower (*Helianthus annuus* L.) under different agro-climatic conditions of Punjab-Pakistan. (2010), Department of Agronomy, University of Agriculture, Faisalabad-PAKISTAN (PhD Thesis). (PP: 281). (<http://eprints.hec.gov.pk/7219/1/810S.htm>).

### **International/Impact Factor's Publications (Total Impact Factor: >150).**

#### **2019**

1. Ali, S., H. Eum, et al., **W. Nasim**, I.A. Khan, S. Fahad, 2019. Assessment of climate extremes in future projections downscaled by multiple statistical downscaling methods over Pakistan, *Atmospheric Research*, 222: 114-133 (**IF: 3.817**).
2. Wang, D., S. Fahad et al., **W. Nasim**, 2019. Morphological acclimation to agronomic manipulation in leaf dispersion and orientation to promote "Ideotype" breeding: Evidence

from 3D visual modeling of “super” rice (*Oryza sativa* L.). *Plant Physiology and Biochemistry*, 135: 499-510 (IF: 2.718).

3. Fahad.S., et al., **W. Nasim**, 2019. Suppressing photorespiration for the improvement in photosynthesis and crop yields: A review on the role of S-allantoin as a nitrogen source, *Journal of Environmental Management*, 237: 644-651 (IF: 4.00).
4. Shah. G.M., N. Tufail, **W. Nasim** et al. 2019. Composting of mu municipal solid waste by different methods improved the growth of vegetables and reduced the health risks of cadmium and lead. *Environmental Science and Pollution Research*, 26:06: 5463-5474 (IF: 2.741).
5. Shahzad, K., A. Hussain et al., **W. Nasim**, 2018. Tillage and biochar effects on wheat productivity under arid conditions. *Crop Science*, 59: 1-9 (IF: 1.8).
6. Muhammad Habib ur Rahman; et al. **W. Nasim**, 2019. Application of CSM-CROPGRO-Cotton Model for Cultivars and Optimum Planting Dates: Evaluation in Changing Semi-Arid Climate. *Field Crops Research*, 238: 139-152 (IF: 3.048).
7. Akram, R., Natasha, et al., **W. Nasim**, 2019. Trends of electronic waste pollution and its impact on the global environment and ecosystem. *Environmental Science and Pollution Research* 26: 16923-16938 (IF: 2.741).
8. Ahmad, A., M. Shahid, et al., **W. Nasim**, 2018. Residues of endosulfan in cotton growing area of Vehari, Pakistan: an assessment of knowledge and awareness of pesticide use and health risks. *Environmental Science and Pollution Research*, 26: 20079-20091 (IF: 2.741).
9. Ali, S., Natasha, et al., **W. Nasim**, 2019. Assessment of arsenic exposure by drinking well water and associated carcinogenic risk in peri-urban areas of Vehari, Pakistan. *Environmental Geochemistry and Health* (Accepted) (IF: 2.994).
10. Zamin M., S. Fahad, et al., **W. Nasim**, 2019. Developing the first halophytic turfgrasses for the urban landscape from native Arabian desert grass. *Environmental Science and Pollution Research* (Accepted) (IF: 2.91).
11. Hussain, S., M Mubeen et al., **W. Nasim**, 2019. Using GIS tools to detect the land use/land cover changes during forty years in Lodhran District of Pakistan. *Environmental Science and Pollution Research* (Accepted) (IF: 2.91).

## **2018**

12. Amin, A., **W. Nasim**, S. Fahad, .....et al. 2018. Evaluation and analysis of temperature for historical (1996–2015) and projected (2030–2060) climates in Pakistan using SimCLIM climate model: Ensemble application. *Atmospheric Research*, 213: 422-436 (IF: 3.778).
13. Amin,A., **W. Nasim**... et al. 2018. Regional climate assessment of precipitation and temperature in Southern Punjab (Pakistan) using SimCLIM climate model for different temporal scales. *Theoretical Applied Climatology*, 131:121–131 (IF: 2.64).
14. Rahman, MHR., A. Ashfaq ....**Nasim**, **W**... et al. 2018. Multi-model projections of future climate and climate change impacts uncertainty assessment for cotton production in Pakistan. *Agricultural and Forest Meteorology*, 253-254: 94-113 (IF: 3.887).
15. **Nasim**, **W.**, A. Ahmad, et al. 2018. Radiation Efficiency and Nitrogen Fertilizer Impacts on Sunflower Crop in Contrasting Environments of Punjab-Pakistan. *Environmental Science and Pollution Research*, 25 (2): 1822-1836 (IF: 2.741).
16. Hammad HM., .....**W. Nasim** et al. 2018. Uptake and toxicological effects of pharmaceutical active compoundson maize. *Agriculture, Ecosystem and Environment*, 258: 143-148 (IF: 4.099).
17. **Nasim**, **W.**, A. Amin, et al. 2018. Future risk assessment by estimating historical heat wave trends with projected heat accumulation using SimCLIM climate model in Pakistan. *Atmospheric Research*, 205-118-133. (IF: 3.778).
18. Ali, S., .....**W. Nasim**, 2018. Effects of sucrose and growth regulators on the microtuberization of potato germplasm. *Pakistan Journal of Botany*, 50(2): 763-768 (IF: 0.69).

19. Ali, S., N. Khan, F. Nauroz, S. Erum, **W. Nasim**, M.A. Shahid, 2018. In vitro Effects of Gibberellic Acid on Morphogenesis of CIP Potato Explants and Acclimatization of Plantlets in Field. *In Vitro Cellular & Developmental Biology*, 54 (1) : 104-111 (IF: 1.024).
20. Tariq, M., S. Ahmad, ..... **W. Nasim** et al. 2018. The impact of climate warming and crop management on phenology of sunflower-based cropping systems in Punjab, Pakistan. *Agricultural and Forest Meteorology*, 256-257: 270-282 (IF: 3.887).
21. Hammad, HM. .... **W. Nasim** et al. 2018. Offsetting Land Degradation through Nitrogen and Water Management during Maize Cultivation under Arid Conditions. *Land Degradation and Development*, 29 (5): 1366-1375 (IF: 9.787).
22. Awais, M., A. Ahmad, **W. Nasim**... et al. 2018. Potential impacts of climate change Climate change impact assessment and adaptation strategies for sunflower in Pakistan. *Environmental Science and Pollution Research*, 25 (14): 13719-13730 (IF: 2.741).
23. Rasool, A., A. Farooqi, T. Xiao, W. Ali, S. Noor, O. Abiola, S. Ali, **W. Nasim**, 2017. A review of global outlook on fluoride contamination in groundwater with prominence on the Pakistan current situation. *Environmental Geochemistry and Health* 40 (4) : 1265-1281 (IF: 2.616).
24. Fahad, S., M.Z. Ihsan....**Nasim**, **W**... et al. 2018. Consequences of high temperature under changing climate optima for rice pollen characteristics concept and perspectives. *Archives of Agronomy and Soil Science*, 64 (11): 1473-1488 (IF: 2.137).
25. Afzal M., S.S Alghamdi, ....**W. Nasim** et al. 2018. Current status and future possibilities of molecular genetics techniques in *Brassica napis*. *Biotechnology Letters*, 40 (3) : 479-492 (IF: 1.73).
26. Amin,A., **W. Nasim** et al. 2017. Simulated CSM-CROPGRO-cotton yield under projected future climate by SimCLIM for southern Punjab, Pakistan. *Agricultural Systems*, 167: 213-222 (IF: 2.51)
27. Khan, N., A. Bano, M.A. Shahid, **W. Nasim**, M.A. Babar. 2018. Interaction between PGPR and PGR for water conservation and plant growth attributes under drought condition *Biologia*, 73 (11): 1083-1098 (IF: 0.70).
28. Hashmi M.Z., A. Hasnain, J.H. Syed, M. Tariq, X. Su, H. Mubarak, **W. Nasim**, C. Shen. 2018. PCB118-Induced Cell Proliferation Mediated by Oxidative Stress and MAPK Signaling Pathway in HELF Cells. *Dose-Response January-March : 2018 : 01-08* (IF: 2.088).
29. Adnan, M., Z. et al, **W. Nasim**, 2017. Phosphate-Solubilizing Bacteria Nullify the Antagonistic Effect of Soil Calcification on Bioavailability of Phosphorus in Alkaline Soils. *Scientific Reports*, 2018: 07-22653. (IF: 4.29).

## **2017**

30. Awais, M., A. Wajid, M.U. Bashir, M. Habib-ur-Rahman, M.A.S. Raza, A. Ahmad, M.F. Saleem, H.M. Hammad, M. Mubeen, U. Saeed, M.N. Arshad, S. Fahad, **W. Nasim**, 2017. Nitrogen and plant population change radiation capture and utilization capacity of sunflower in semi-arid environment. *Environmental Science and Pollution Research*, 24 (21): 17511-17525 (IF: 2.741).
31. Abbas, G., S. Ahmad, A. Ahmad, **W. Nasim**, Z. Fatima, S. Hussain, M. Habib ur Rehman, M.A. Khan, M. Hasanuzzaman, S. Fahad, K.J. Boote, G. Hoogenboom, 2017. Quantification the impacts of climate change and crop management on phenology of maize-based cropping system in Punjab, Pakistan. *Agricultural Forest Meteorology*, 247: 42-55 (IF: 3.889).
32. Fahad, S., A.A. Bajwa, U. Nazir, S.A. Anjum, A. Farooq, A. Zohaib, S. Sadia, **W. Nasim**, S. Adkins, S. Saud, M.Z. Ihsan, H. Alharby, C. Wu, D. Wang, J. Huang, 2017. Crop Production under drought and heat stress: Plant responses and management options. *Frontier in Plant Sciences*. 08: 1147. (IF: 4.298).

33. Saud S., S. Fahad, C. Yajun, M.Z. Ihsan, H.M. Hammad, W. **Nasim**, Amanullah Jr, M. Arif, H. Alharby, 2017. Effects of Nitrogen Supply on Water Stress and Recovery Mechanisms in Kentucky Bluegrass Plants. *Frontier in Plant Sciences*. 8:983. (IF: 4.298).
34. Zia, Z., H.F. Bakhat, Z.A. Saqib, G.M. Shah, S. Fahad, M.R. Ashraf, H.M. Hammad, W. **Naseem**, M. Shahid, 2017. Effect of water management and silicon on germination, growth, phosphorus and arsenic uptake in rice. *Ecotoxicology and Environmental Safety* 144: 11–18 (IF: 3.743).
35. Amin, A., W. **Nasim**, M. Mubeen, D.H. Kazmi, Z. Lin, A. Wahid, S.R. Sultana, J. Gibbs, S. Fahad, 2017. Comparaison of future and base precipitation anomalies by SimCLIM statistical projection through ensemble approach in Pakistan. *Atmospheric Research*, 194: 214-225 (IF: 3.778).
36. Shakeel, M., M. Farooq, W. **Nasim**, W. Akram, F.Z.A. Khan, W. Jaleel, X. Zhu, H. Yin, S. Li, S. Fahad, S. Hussain, B.S. Chauhan, F. Jin, 2017. Environment Polluting Conventional Chemical Control Compared to an Environmentally Friendly IPM approach for control of diamondback moth, *Plutella xylostella* (L), in China: A Review. *Environmental Science and Pollution Research*, 24: 14537-14550 (IF: 2.741).
37. Jabran, K., M. Riaz, M. Hussain, W. **Nasim**, U. Zaman, S. Fahad, B.S. Chauhan, 2017. Water-saving technologies affect the grain characteristics and recovery of fine-grain rice cultivars in semi-arid environment. *Environmental Science and Pollution Research*, 24: 12971-12981 (IF: 2.741).
38. Amin, A., W. **Nasim**, M. Mubeen, et al., 2017. Optimizing the Phosphorus Use in Cotton by Using CSM-CROPGRO-Cotton Model for Semi-Arid Climate of Vehari-Punjab, Pakistan. *Environmental Science and Pollution Research*, 24 (6): 5811-5823 (IF: 2.741).
39. Gillani, R.A, N. Shenaz, S. Matloob, F. Haq, W.S.W. Ngah, W. **Nasim**, A. Rehman, H.J. Chaudhary, 2017. Biosorption analysis of *Agrobacterium tumefaciens* 12b3 against Cr (1 III) and Pb(II) by 2 kinetic modeling and equilibrium studies. *Desalination and Water Treatment*, 67: 206-214 (IF: 1.631).
40. Hammad, H.M., W. Farhad, F. Abbas, S. Fahad, S. Saeed, W. **Nasim**, H.F. Bakhat, 2017. Maize plant nitrogen uptake dynamics at limited irrigation water and nitrogen. *Environmental Science and Pollution Research*, 24 (3): 2549-2557 (IF: 2.741).
41. Jabran, K. Ehsanullah, N. Akbar, M. Yasin, T. Arjumend, MF. Azhar, M. Hussain, W. **Nasim**, 2017. Growth and physiology of basmati rice under conventional and water-saving production systems. *Archives of Agronomy and Soil Science*, 63(10), 1465-1476 (IF: 2.137).
42. Ahmad, S., Q. Abbas, G. Abbas, Z. Fatima, Atique-ur-Rehman, S. Naz, H. Younis, R.J. Khan, W. **Nasim**, M Habib Ur Rehman, A. Ahmad, G. Rasul, M.A Khan, M. Hasanuzzaman, 2017. Quantification of Climate Warming and Crop Management Impacts on Cotton Phenology. *Plants*, 6 (7): 1-16 (ISI indexed).
43. Awais, M., A. Wajid, W. **Nasim**, A. Ahmad; F. Saleem, U. Bashir, H. Rahman, U Saeed, J. Hussain, N. Arshad, G. Hoogenboom, 2017. Modeling the water and nitrogen productivity of sunflower using OILCROP-SUN model in Pakistan. *Field Crops Research*, 205: 67-77 (IF: 3.048)
44. **Nasim, W.**, A. Ahmad, S. Ahmad, M. Nadeem, N. Masood, M. Shahid, M. Mubeen, G. Hoogenboom, 2017. Response of sunflower hybrids to nitrogen application grown under different Agro-environments. *Journal of Plant Nutrition*, 40 (1) : 82-92 (IF: 0.618).
45. Mahmood F., H. Belhouchette, W. **Nasim**, T. Shazad, S. Hussain, O. Therond, S. Fahad, J. Wery, 2017. Economic and environmental impacts of introducing grain legumes in farming systems of Midi-Pyrénées region (France): A simulation approach. *International Journal of Plant Production* 01 (1): 65-87 (IF: 1.065).
46. Mirza, N., H. Mubarak, L. Chai · Z. Yang, Q. Mahmood, W. Yong, C. Tang, S. Fahad, W. **Nasim**, K.Saddique, 2017. Constitutional tolerance and chlorophyll fluorescence of *Boehmeria nivea* L in response to the antimony (Sb) and arsenic (As) co-contamination. *Toxicological and Environmental Chemistry*, 99 (2): 265-272 (IF : 0.795).

## **2016**

47. **Nasim, W.**, H. Belhouchette, A Ahmad, MH Rahman, K Jabran, K Ullah, S Fahad, M Shakeel, G Hoogenboom. 2016. Modelling climate change impacts and adaptation strategies for sunflower in Punjab-Pakistan. *Outlook on Agriculture*, 45 (1): 39-45 **(IF: 0.50)**.
48. **Nasim, W.**, A. Ahmad, H., Belhouchette, G. Hoogenboom, 2016. Evaluation of the OILCROP-SUN model for sunflower hybrids under different agro-meteorological conditions of Punjab-Pakistan. *Field Crops Research*, 188: 17-30 **(IF: 3.048)**.
49. Mubeen M., A. Ahmad, T. Khaliq, H.M. Hammad, S.R. Sultana, S. Ahmad, **W. Nasim**, 2016. Application of CSM-CERES-Maize model in optimizing irrigated conditions. *Outlook on Agriculture*, 45 (3): 01-12 **(IF: 0.50)**.
50. Rasool A., T. Xiao, A. Farooqi, M. Shafeeque, S. Masood, S. Ali, S. Fahad, **W. Nasim**, 2016. Arsenic and heavy metal contaminations in the tube well water of Punjab, Pakistan and risk assessment: A case study. *Ecological Engineering*, 95: 90-100 **(IF: 2.914)**
51. **Nasim, W.**, H. Belhouchette, et al., 2016. Correlation studies on nitrogen for sunflower crop across the agroclimatic variability. *Environmental Science and Pollution Research*, 23 (4): 3658-3670 **(IF: 2.741)**
52. Alghabari, F, MZ Ihsan; A. Khaliq; S, Hussain, S. Fahad, **W. Nasim**, 2016. Gibberellin-sensitive Rht alleles confer tolerance to heat and drought stresses in wheat at booting stage. *Journal of Cereal Science*, 70 : 72-78 **(IF: 2.223)**
53. Fahad, S., S. Hussain, S. Saud, F. Khan, S. Hassan, Amanullah Jr., **W. Nasim**, M. Arif, F. Wang, J. Huang, 2016. Exogenously Applied Plant Growth Regulators Affect Heat-stressed Rice Pollens. *Journal of Agronomy and Crop Science*, 202: 139-150 **(IF: 2.727)**.
54. Fahad, S., S. Hussain, S. Saud, S. Hassan, M. Tanveer, M.Z. Ihsan, A.N. Shah, A. Ullah, Nasrullah, F. Khan, S. Ullah, H. Alharby, **W. Nasim**, C. Wu, J. Huang, 2016. A combined application of biochar and phosphorus alleviates heat-induced adversities on physiological, agronomical and quality attributes of rice. *Plant Physiology and Biochemistry*, 103: 191-198 **(IF: 2.724)**.
55. Khawar J., M. Hussain, S. Fahad, M. Farooq, A.A. Bajwa, H. Alharby, **W. Nasim**. 2016. Economic assessment of different mulches in conventional and water-saving rice production systems. *Environmental Science and Pollution Research*, 23 (9): 9156-9163 **(IF: 2.741)**.
56. Nosheen M., H. Mubarak, et al, **W Nasim**, KHM Siddique. 2016. Biochemical and metabolic changes in arsenic contaminated *Boehmeria nivea* L. *BioMed Research International*, 2016 : 01-08 **(IF: 2.476)**.
57. Fahad S., et al., **W. Nasim**, B. Shahzad, M. Tanveer, J. Huang, 2016. Responses of Rapid Viscoanalyzer Profile and Other Rice Grain Qualities to Exogenously Applied Plant Growth Regulators under High Day and High Night Temperatures. *Plos One*: 11(7): 01-13 **(IF: 2.806)**.
58. Fahad S, et al., **Nasim W**, Alharby H, Alghabari F and Huang J, 2016. Exogenously applied plant growth regulators enhance the morpho-physiological growth and yield of rice under high temperature. *Frontier in Plant Sciences*, 07, 1250 **(IF: 4.298)**.

## **2014**

59. Shahid, M., A. Austruy, G. Echevarria, M. Arshad, M. Sanaullah, M. Aslam, M. Nadeem, **W. Nasim**, C. Dumat, 2014. EDTA-Enhanced Phytoremediation of Heavy 1 Metals: A Review. *Soil and Sediments Contamination*, 23:389–416 **(IF: 1.207)**.  
**98.645**

## **2013**

60. Naz I., M.F.H. Munis, Amna, M.A.Kamran, R. Mufti, T. Mukhtar, F. Rasul, **W. Nasim**, H.J. Chaudhary, 2013. Effect of different Fungicides on the incidence of Maize pathogen *Helminthosporium maydis*. *Jokull Journal*, 63. 196-207 **(IF: 0.833)**.

61. Masood, N., M. Ashfaq, T. Hussain, S.A. Qaisrani, M.K. Bhutta, M.A. Khan and **W. Nasim**, 2013. Whitefly (*Aleurolobus barodensis* Mask) Spatio-Temporal Trends In Semi-Arid Agro-Ecological Zones Of Pakistan. *Pakistan Journal of Agricultural Sciences*, 50(1), 69-74 (IF: 0.609).

## 2012

62. **Nasim, W.**, A. Ahmad, H.M. Hammad, H.J. Chaudhary and M.F.H. Munis, 2012. Effect of nitrogen on growth and yield of sunflower under semiarid conditions of Pakistan. *Pakistan Journal of Botany*, 44(2): 639-648 (IF: 0.69).

## 2011

63. **Nasim, W.**, A. Ahmad, A. Wajid, J. Akhtar and D. Muhammad. 2011. Nitrogen effects on growth and development of sunflower hybrids under agro-climatic conditions of Multan. *Pakistan Journal of Botany*, 43(4): 2083-2092 (IF: 0.69).

## 2010

64. Hammad H.M, A. Ahmad, F. Azhar, S.A. Wajid, T. Khaliq, **W. Nasim** and W. Farhad. 2010. Optimizing water and nitrogen requirement in maize under semi arid conditions of Pakistan. *Pakistan Journal of Botany*, 43 (6): 2919-2923 (IF: 0.69).
65. Hammad H.M, A. Ahmad, K.Q. Laghari, F. Abbas, **W. Nasim**, W. Farhad, A.H. Malik. 2010. Organic farming in wheat crop under arid conditions of Pakistan. *Pakistan Journal of Agricultural Sciences*, 48 (2): 97-102 (IF: 0.609).
66. Wajid, A., A. Ahmad, T. Khaliq, S. Alam, A. Hussain, K. Hussain, **W. Nasim**, M. Usman and S. Ahmad. 2010. Quantification of growth, yield and radiation use efficiency of promising cotton cultivars at varying nitrogen levels. *Pakistan Journal of Botany*, 42(3): 1703-1711 (IF: 0.69).
67. Usman, M., et al., **W. Nasim**, H. Ali and S. Ahmad, 2010. Lower and upper baselines for crop water stress index and yield of *Gossypium hirsutum* L. under variable irrigation regimes in irrigated semiarid environment. *Pakistan Journal of Botany*, 42(4), 2541-2550 (IF: 0.69).

## 2009

68. Ahmad, A., S. Iqbal, S. Ahmad, T. Khaliq, **W. Nasim**, A. Hussain, M. Zia-ul-Haq, and G. Hoogenboom. 2009. Seasonal growth, radiation interception, its conversion efficiency and aerial dry biomass production of *Oryza sativa* L. under diverse agro-environments in Pakistan. *Pakistan Journal of Botany*, 41(3): 1241-1257 (IF: 0.69).

## 2007

69. Wajid, A., A. Ghaffar, M. Maqsood, K. Hussain and **W. Nasim**. 2007. Maize response to yield under semi arid conditions of Pakistan. *Pakistan Journal of Agricultural Sciences*, 44 (2): 217-220 (IF: 0.609).

## Research Students Supervised

<u>S #</u>	<u>Name of Student</u>	<u>Degree</u>	<u>Year of Award</u>	<u>My Role</u>	<u>Title of Thesis</u>
1.	Asad Amin	MS/MPhil	2015	Supervisor	Simulating yield of cotton varieties as influenced with different P. levels under Agro-climatic conditions of Vehari using DSSAT model.
2.	Sidra Bibi	MS/MPhil	2015	Supervisor	Simulating maize yield from organic and synthetic nitrogenous fertilizers under Agro-environmental conditions of Vehari-Pakistan.
3.	Ashfaq Ahmad	MS/MPhil	2015	Co-Supervisor	Assessment of environmental contamination of endosulfan in cotton growing area of Vehari district.

4.	Rashid Hafeez	MS/MPhil	2015	Co-Supervisor	Analysis and re-design of municipal solid waste management operations in Vehari.
5.	Abdul Waheed	MS/MPhil	2016	Co-Supervisor	Efficient Irrigation Techniques for Improving Water Use Efficiency of Maize in Arid Conditions Using DSSAT Model.
6.	M.Shakeel Chawla	MS/MPhil	2016	Co-Supervisor	Simulating Nitrogen Application of Maize Hybrids Under Various Temperatures
7.	Yasir Abbas	MS/MPhil	2017	Co-Supervisor	Optimization of Biogas Production Through Food and Animal Waste
8.	Rida Akram	MS/MPhil	2017	Supervisor	Simulating the Effects of Fertilizer Amendments on Growth and Yield of Rice and Maize Crop
9.	Attiq-ur-Rehman	MS/MPhil	2017	Supervisor	Modeling the Impact of Different Wheat Cultivars in Various Agro- Environments of the Southern Punjab-Pakistan.
10.	Abdul Rauf	MS/MPhil	2017	Co-Supervisor	Use of Satellite Derived NDVI to study the effect of climate change on temporal vegetation of southern Punjab.
11.	Farhat Waseem	MS/MPhil	2018	Supervisor	Modeling the Impact of Different Cotton Cultivars in Various Agro- Environments of the Southern Punjab-Pakistan.
12.	Haji Muhammad Akhtar	MS/MPhil	2018	Supervisor	Simulating the behavior of different wheat cultivars in various agro environments of the Southern Punjab
13.	Sajjad Hussain	MS/MPhil	2018	Co-Supervisor	Identification of change in land use/land cover classification and water use through satellite derived NDVI in the changing climate of Southern Punjab
14.	Muhammad Abid Qamar	MS/MPhil	2018	Co-Supervisor	Effects of Soil Salinity on Mineralization and Maize Recovery of Nitrogen from Organic Wastes
15.	Sami Ul Din	BS	2018	Co-Supervisor	Evaluating the impact of climate change on crop water requirement for wheat in semi-arid conditions of Vehari by using DSSAT model
16.	Syed Ahsan Zahoor	BS	2018	Supervisor	Behavior of Different Wheat Cultivars in different Agro environments of the Southern Punjab
17.	Hamid Majeed	MS	2018	Co-Supervisor	Effect of Urban Heat Island on Socio-Economic Conditions of Residents in  Southern Punjab: A Case Study of Multan and Vehari
18.	Tauseef Akram	MS	2018	Supervisor	Use of DSSAT Model for Studying the Impact of Various Agro Environments on Cotton Crop in Southern Punjab-Pakistan
19.	Jawad Zafar	BS	2018	Supervisor	Effect of late sowing on the yield and phenology of wheat in semi-arid area climate of Vehari-Punjab, Pakistan
20.	Musaddiq Ali	BS	2018	Co-Supervisor	Land Use/Land Cover Change Analysis and Mapping Using RS and GIS in Lower Bari Doab, Punjab, Pakistan



21	Rana Zainul Abideen	MS	2019	Co-Supervisor	Synopsis under process
22	Javed Iqbal	MS	2019	Supervisor	Synopsis under process

**Research Publications (Non-Impact Factor) : 21**

**National & International Conferences Proceedings Publications (Oral Presentations): National Conferences : 08**

**International Conferences : 13**

**National & International Seminars/Conferences/Symposium (Abstracts/Oral PPT.): 30**

**Reviewer of National & International Peer Reviewed Impact Factored Journals (few of them).**

1. Agricultural Forest Meteorology
2. Field Crops Research
3. Journal of Hyderalogy
4. Environmental Science and Pollution Research
5. Saudi Journal of Agricultural Sciences
6. Pakistan Journal of Agricultural Sciences
7. Pakistan Journal of Botany
8. International Journal of Agriculture and Biology
9. Arabian Journal of Geosciences
10. International Journal of Agriculture and Biology
11. Atmospheric Research
12. Journal of Integrative Agriculture (Formerly Agricultural Sciences in China).

**National & International Conferences Proceedings Publications (Oral Presentations):**

**National Conferences**

- 2008 International Symposium on “Modern Approaches and Techniques in Agriculture to ensure food security in Pakistan”. University of Agriculture, Faisalabad-**Pakistan** (PP: 01-08).
- 2008 **International Symposium** on “Modern Approaches and Techniques in Agriculture to ensure food security in Pakistan”. University of Agriculture, Faisalabad-**Pakistan** (PP: 9-14).
- 2009 **International Symposium** on “Compatible with Climate Change” (ISCCC). Shah Latif University Botanical Garden and Herbarium, Khairpur, Sindh, **Pakistan** (PP: 92-107)
- 2012 12<sup>th</sup> National and 3<sup>rd</sup> International Conference of Botany, (1-3 September, 2012) Quaid-i-Azam University, Islamabad-**Pakistan**.
- 2013 1<sup>st</sup> International Conference on Global Environmental Changes. January 15-16 2013. Government College University Faisalabad, Pakistan.
- 2013 International Conference on “Crop Management in Changing Climate”. February 11-13, 2013. University of Agriculture, Faisalabad-**Pakistan**.
- 2013 National Conference on “Agriculture in Arid Environment” March 25-26, 2013. Bahadur Subcampus Layyah, Bahauddin Zakariya University, Multan-**Pakistan**.
- 2017 6th International and 15th National Conference on Dynamic Trends in Plant Sciences: Fostering the Environment and Food Security, Sardar Bahadur Khan Women’s University (SBKWU), Quetta, Pakistan (9-11th May 2017).
- 2019 Guest Speaker in Climate Change Impacts on Soil and Food Security in National Seminar at National Agricultural Research Council (NARC), Islamabad, Pakistan (17 June 2019).

**International Conferences**

- 2009 International Symposium on Environmental Science and Technology Donghua University, Shanghai, **China** (PP: 69-74). (ISBN 978-7-03-030935-8)

- 2009 International Symposium on Environmental Science and Technology Donghua University, Shanghai, **China** (PP: 50-59). (ISBN 978-7-03-030935-8)
- 2010 The Third International Symposium on Arid Climate Change and Sustainable Development (ISACS-3), September 8-10, 2010, Lanzhou, Gansu, P. R. **China**
- 2010 1<sup>st</sup> International Conference "Organic Agriculture- Limitations and Future". (1-5 September, 2010). Faculty of Agriculture, Ain Shams University, Cairo, **Egypt**.
- 2010 Abstract ID # 58665 Submitted to International Meeting of American Society of Agronomy, October, 31-November, 4, 2010, Long Beach, California, **USA**.
- 2011 International Symposium on Environmental Science and Technology, (1-4 June, 2011) Dongguan, Guangdong Province, **China**.
- 2011 Abstract ID # 64982. American Society of Agronomy (ASA), Crop Science Society of America (CSSA), Soil Science Society of America (SSSA), submitted to International Annual Meetings. October, 16-19, 2011, San Antonio, Texas, **USA**.
- 2012 Abstract ID # 72484. American Society of Agronomy (ASA), Crop Science Society of America (CSSA), Soil Science Society of America (SSSA), submitted to International Annual Meetings. October, 21-24, Cincinnati, Ohio, **USA**.
- 2012 International Conference on Agriculture, Science and Engineering (ICASE2012). September 3-7 2012 Port Harcourt-**Nigeria**. PP. 192-206.
- 2013 Abstract # 79878. American Society of Agronomy (ASA), Crop Science Society of America (CSSA), Soil Science Society of America (SSSA), International Annual Meetings. November, 03-06, 2013, Tampa, FL, **USA**.
- 2013 Abstract # 78748. ASA, Crop Science Society of America (CSSA), Soil Science Society of America (SSSA), International Annual Meetings. November, 03-06, 2013, Tampa, FL, **USA**.
- 2017 "2<sup>nd</sup> AgriBALKAN Agriculture Conference, Tikerdag, **Turkey**.
- 2018 International Collaborative Research Meeting in Swedish University of Agricultural Sciences (SLU), Upsala, **Sweden**.

### **Invited Lectures:**

#### **National:**

1. **Invited National Speaker** in "Farm Management using IT tools" by Regional Agricultural Economic Development Center (RAEDC), **Vehari-Pakistan** (28-11-2012).
2. **Invited National Speaker** in HEC's two day workshop entitled "Simulation Modeling: A Decision Support System for Agro-technology Transfer for Improving the Standards of Research" to be held by Department of Agronomy, Bahauddin Zakariya University **Multan-Pakistan** (4-5 March, 2013).
3. **Invited National Speaker** in HEC's two day International Conference entitled "Asian Monsoon and Climate Change" to be held by COMSATS Institute of Information Technology, **Islamabad-Pakistan**. (20-21 January, 2014).
4. **Invited National Expert** in PSF-MoST-UNDP-three day International SACAM Meeting entitled "Impact of Climate Change on Natural Resources" held by Pakistan Museum of Natural History, **Islamabad-Pakistan**. (03-05 December, 2014).
5. **Invited National Resource Person** in 03 day "Hands on Training on Agricultural Production Systems SIMulator Modelling (APSIM) US-Pakistan Centre for Advanced Studies in Agriculture Food Security (US-PCAS-AFS) 30th August to 01st September, 2016, in University of Agriculture, **Faisalabad-Pakistan**.
6. **Invited National Resource Person** in 05 days "Training of trainers regarding Production Technology of General Crops" by Regional Agricultural Economic Development Center (RAEDC), **Vehari-Pakistan** (23-01-2017).
7. **Invited National Resource Person** in 02 days "1st National Graduate Conference" by Allama Iqbal Open University, **Islamabad-Pakistan** (15-16 March 2017).

8. **Invited National Resource Person** in 03 days "1st International Conference on Climate Change and Biodiversity" by Cholistan Institute of Desert Studies, Islamia University of Bahawalpur-**Pakistan** (02-04 May 2017).
9. **Invited National Speaker** in 03 days "International Climate Change and Threats to Agriculture Conference" by University of Agriculture, **Peshawar -Pakistan** (22-24 November 2017).
10. **Invited National Speaker** in 02 days "International Conference on Energy and Water on talk « Climate Change and Water Security » by Mehran University of Engineering and Technology, Jamshoro, **Sindh -Pakistan** (12-13 December 2017).
11. **Invited National Speaker** in 03 days "1st International Conference on Climate Change Impacts on Agriculture and Food Supply (IC3AF)" at the University of Swabi, **KPK Pakistan** (April 24- 26, 2018).
12. **Invited National Speaker** in "One day Workshop for Capacity building of young scientists on "Communicating Science to Society" (sponsor by PASTIC-Faisalabad and Technology Times Islamabad) at the Bahauddin Zakariya University, **Multan-Pakistan** (April 30, 2018).
13. **Invited National Speaker** in as "02 days International Conference on "Climate Smart Agriculture" at the Muhammad Nawaz Shareef (MNS) University of Agriculture, **Multan-Pakistan** (08-10 October, 2018).
14. **Invited National Speaker** in "01 days International Conference on «Climate Change and Water Security » scheduled at the Department of Soil and Environmental Sciences, University of Agriculture, **Faisalabad-Pakistan** (29.10.2018).
15. **Invited National Resource Person** in 01 day "Training of trainers regarding «Impact Of Climate Change on Agriculture: Rising CO<sub>2</sub> concentration, ozone layer depletion, drought and Smog" by Regional Agricultural Economic Development Center (RAEDC), **Vehari-Pakistan** (14-11-2018).
16. **Invited External Examiner** in "MS/MPhil Examination as Subject Expert for Fall 2018" at Department of Environmental Sciences, Bahauddin Zakariya University, **Multan-Pakistan** (30.11.2018).
17. **Invited External Examiner** for viva voice of MS Students in Department of Plant Sciences, Quaid-i-Azam University, **Islamabad-Pakistan** (12 March, 2019).
18. **Guest Speaker** in "Climate Change Impacts on Soil and Food Security" in National Seminar at National Agricultural Research Council (NARC), Islamabad, Pakistan (17 June 2019).
19. **Invited External Examiner** for viva voice of MS Students in Department of Environmental Sciences, University of Gujrat, **Gujrat-Pakistan** (17 September, 2019).
20. **Invited Guest Speaker** in "Air Pollution and Climate Change" organized by SDPI & Ministry of Climate Change, in Quaid-i-Azam University, **Islamabad-Pakistan** (18 September, 2019).

### International:

1. **USA** 14 to 24 October, 2011 (Oral PPT in ASA, CSSA, SSSA, San Antonio, TX, USA).
2. **Sri Lanka** 11 to 17 November, 2012 (Workshop on AgMIP South Asia Kick off meeting).
3. **Nepal** 17 to 23 March, 2013 (AgMIP Multiple Crop Model Training Program-APSim).
4. **Nepal** 21 to 27 July, 2013 (AgMIP South Asia Regional Research and Coordination Team Mid-Term Workshop).
5. **USA** 28 Oct. to 07 Nov., 2013 (Fourth Annual AgMIP Global Workshop at Columbia University, New York and Annual Meetings ASA, CSSA, SSSA, Tampa, FL. USA).
6. **Tanzania** 27 January to 07 February 2014 (Regional AgMIP Research Teams Finish Line Workshop" Arusha, Tanzania).
7. **China** 05 July to 17 July, 2014 (Resource Person in International Center for Climate and Environment Sciences (ICCES), Institute of Atmospheric Physics, Beijing, China).
8. **France** December, 2014 to July 2015, International Center for Advanced Mediterranean Agronomic Studies (CIHEAM), Institut Agronomique Méditerranéen de Montpellier (IAMM), Montpellier – **France**.

9. **UK** 04-09 May 2015, Cranfield University, Bedford, **United Kingdom (UK)**.
10. **Australia** 27 November 2015- 24 May 2016, Commonwealth Scientific and Industrial Research Organization (CSIRO), Sustainable Agriculture, National Research Flagship, PO Box 102, Toowoomba, Qld 4350, **Australia**.
11. **Turkey** 15-19 May, 2017, International Conference on Agriculture, Tekirdag, **Turkey**.
12. **China** 16-22 July, 2017, International Centre for Climate & Environment Sciences (ICCES), Institute of Atmospheric Physics, **Beijing, China**.
13. **Sweden** 26 Feb.-02 March, 2018, "International Collaborative Research Meeting in Swedish University of Agricultural Sciences (SLU)", Upsala, **Sweden**.
14. **China** 01-10 November, 2018, Visit as **Invited International Speaker** in «Alliance of International Science Organisations (ANSO) in Belt and Road Region» organised by International Centre for Climate & Environment Sciences (ICCES), **Beijing, China**.
15. **Iran & Iraq** 23 July-11 August, 2018, Visit as **Invited International Speaker** in Agricultural and Meteorological Software's Laboratory, Department of Water Engineering, Faculty of Agriculture, Ferdowsi University of Mashhad, **Mashad, IRAN & visit to IRAQ**.

### **Conferences/Workshops/Seminars Organized:**

- ✓ 1st National Conference on "Advancement in Science and Research" 28 February, 2012 at COMSATS Institute of Information Technology (CIIT) Vehari-Pakistan.
- ✓ "Pakistan Kickoff Workshop and International Conference on Climate Change, " at Department of Agronomy, University of Agriculture, Faisalabad-Pakistan (4-6 June, 2013).
- ✓ 2nd National Conference on "Advancement in Science and Research" 17 March, 2014 at COMSATS Institute of Information Technology (CIIT) Vehari-Pakistan.
- ✓ AgMIP Mid-term Workshop and International Seminar on "Climate Change Adaptation Strategies to Ensure Food Security" 16-17 January, 2014 at Department of Agronomy, University of Agriculture, Faisalabad-Pakistan.

### **International Book (or Chapter) Publication**

#### **2015**

- ICP Series on Climate Change Impacts, Adaptation, and Mitigation-Vol. 4. HANDBOOK OF CLIMATE CHANGE AND AGROECOSYSTEMS: The Agricultural Model Intercomparison and Improvement Project (AgMIP) Integrated Crop and Economic Assessment, **Part 1**. Edited by Cynthia Rosenzweig and Daniel Hillel, Columbia University, **USA**. 2015. (Joint Publication with American Society of Agronomy, Crop Science Society of America and Soil Science Society of America. **Chapter 8**. The AgMIP Coordinated Climate-Crop Modeling Project [C3MP]: Methods and Protocols) Pages 191-221. World Scientific Publishing Co Pt. Ltd., ([http://www.worldscientific.com/doi/abs/10.1142/9781783265640\\_0008](http://www.worldscientific.com/doi/abs/10.1142/9781783265640_0008))
- ICP Series on Climate Change Impacts, Adaptation, and Mitigation-Vol. 4. HANDBOOK OF CLIMATE CHANGE AND AGROECOSYSTEMS: The Agricultural Model Intercomparison and Improvement Project (AgMIP) Integrated Crop and Economic Assessment, **Part 2**. Edited by Cynthia Rosenzweig and Daniel Hillel, Columbia University, **USA**. 2015. (Joint Publication with American Society of Agronomy, Crop Science Society of America and Soil Science Society of America. **Chapter 7. Impact of Climate Change on the Rice-Wheat Cropping System of Pakistan**. Pages 191-221. World Scientific Publishing Co Pt. Ltd., ISBN: 978-1-78326-563-3 ([http://www.worldscientific.com/doi/abs/10.1142/9781783265640\\_0019](http://www.worldscientific.com/doi/abs/10.1142/9781783265640_0019))

#### **2017**

- Akram R., Hashmi M.Z., **Nasim W.** (2017) Role of Antibiotics in Climate Change. In: Hashmi M., Strezov V., Varma A. (eds) Antibiotics and Antibiotics Resistance Genes in Soils. Soil Biology, vol 51. Springer, Cham ([https://link.springer.com/chapter/10.1007/978-3-319-66260-2\\_6](https://link.springer.com/chapter/10.1007/978-3-319-66260-2_6))

- Hasnain A. et al. (2017) Antibiotics Resistance Genes. In: Hashmi M., Strezov V., Varma A. (eds) Antibiotics and Antibiotics Resistance Genes in Soils. Soil Biology, vol 51. Springer, Cham ([https://link.springer.com/chapter/10.1007/978-3-319-66260-2\\_2](https://link.springer.com/chapter/10.1007/978-3-319-66260-2_2))
- Akram R. et al. (2017) Fate of Antibiotics in Soil. In: Hashmi M., Strezov V., Varma A. (eds) Antibiotics and Antibiotics Resistance Genes in Soils. Soil Biology, vol 51. Springer, Cham ([https://link.springer.com/chapter/10.1007/978-3-319-66260-2\\_11](https://link.springer.com/chapter/10.1007/978-3-319-66260-2_11))
- Hashmi M.Z. et al. (2017) Management and Regulation of Antibiotics and Antibiotics Resistance Genes in Soils. In: Hashmi M., Strezov V., Varma A. (eds) Antibiotics and Antibiotics Resistance Genes in Soils. Soil Biology, vol 51. Springer, Cham ([https://link.springer.com/chapter/10.1007/978-3-319-66260-2\\_21](https://link.springer.com/chapter/10.1007/978-3-319-66260-2_21))
- Nasim W and R. Akram, 2017. Electronic Wastes published by Technology Times Publishers: (<http://www.technologytimes.pk/electronic-waste/>)
- Nasim W and R. Akram, M. Mubeen, 2017. Ozone layer protection-greening the blue published by Technology Times Publishers: (<http://www.technologytimes.pk/ozone-layer-protection-greening-the-blue/>)

## **2018**

- Akram R., V. Turan, et al. **Nasim W.** (2018). Fate of Organic and Inorganic Pollutants in Paddy Soils. In: Hashmi M., V., Varma A. (eds). Environmental Pollution of Paddy Soils. Soil Biology, vol 53. Springer, Cham ([https://link.springer.com/chapter/10.1007/978-3-319-93671-0\\_13](https://link.springer.com/chapter/10.1007/978-3-319-93671-0_13)).
- Akram R., V. Turan, et al. **Nasim W.** (2018). Paddy Land Pollutants and Their Role in Climate Change. In: Hashmi M., V., Varma A. (eds). Environmental Pollution of Paddy Soils. Soil Biology, vol 53. Springer, Cham ([https://link.springer.com/chapter/10.1007/978-3-319-93671-0\\_7](https://link.springer.com/chapter/10.1007/978-3-319-93671-0_7)).

## **2019**

- Akram R., S. Fahad, et al. Nasim W. (2019). Plant Growth and Morphological Changes in Rice Under Abiotic Stress. In: Mirza H., M. Fujita, JK Biswas (eds). Advances in Rice Research for Abiotic Stress Tolerance ISBN 978-0-12-814332-2 (<https://www.sciencedirect.com/science/article/pii/B9780128143322000046#>).
- Fahad, S., et al. Nasim W. (2019). Abiotic Stress and Rice Grain Quality. In: Mirza H., M. Fujita, JK Biswas (eds). Advances in Rice Research for Abiotic Stress Tolerance ISBN 978-0-12-814332-2 (<https://www.sciencedirect.com/science/article/pii/B9780128143322000289>).
- Amanet K., M. Mubeen et al. Nasim W. (2019). Cotton Production in Africa. In: John Wiley & Sonss, Ltd. Pages 359-369. (<https://onlinelibrary.wiley.com/doi/pdf/10.1002/9781119385523#page=370>).

## **Countries Visited**

- 1. USA** 05.08.2009 to 03-03-2010 (University of Georgia, Griffin, USA for PhD training)
- 2. China** 29 June to 06 July, 2011 (oral ppt. in ISEST 2011, Beijing, China)
- 3. USA** 14 to 24 October, 2011 (oral ppt. in ASA, CSSA, SSSA, San Antonio, TX, USA)
- 4. Sri Lanka** 11 to 17 November, 2012 (Workshop on AgMIP South Asia Kick off meeting)
- 5. Nepal** 17 to 23 March, 2013 (AgMIP Multiple Crop Model Training Program-APSim)
- 6. Nepal** 21 to 27 July, 2013 (AgMIP South Asia Regional Research and Coordination Team Mid-Term Workshop)
- 7. USA** 28 October to 07 Nov., 2013 (Fourth Annual AgMIP Global Workshop at Columbia University, New York and Annual Meetings ASA, CSSA, SSSA, Tampa, FL, USA)
- 8. Tanzania** 27 January to 07 February 2014 (Regional AgMIP Research Teams Finish Line Workshop" Arusha, Tanzania)

- 9. China** 05 July to 17 July, 2014 (Resource Person in International Center for Climate and Environment Sciences (ICCES), Institute of Atmospheric Physics, Beijing, China).
- 10. France** December, 2014 to July 2015, International Center for Advanced Mediterranean Agronomic Studies (CIHEAM), Institut Agronomique Méditerranéen de Montpellier (IAMM), Montpellier – **France**.
- 11. UK** **04-09** May 2015, Cranfield University, Bedford, **United Kingdom (UK)**.
- 12. Australia** 27 November 2015- 24 May 2016, Commonwealth Scientific and Industrial Research Organization (CSIRO), Sustainable Agriculture, National Research Flagship, PO Box 102, Toowoomba, Qld 4350, **AUSTRALIA**
- 13. United Arab Emirates (UAE)** May 2016, Visit to Dubai.
- 14. Turkey :** To attend International Conference on Agriculture, Tekirdag, **Turkey** (15-19 May, 2017)
- 15. Saudia Arabia** to visit in Kingdom of Saudia Arabia (19 May 03 June, 2017).
- 16. China** Visit as **Invited International Speaker** in International Centre for Climate & Environment Sciences (ICCES), Institute of Atmospheric Physics, **Beijing, China**. (16-22 July, 2017).
- 17. Sweden** **Invited International Speaker** in “International Collaborative Research Meeting in Swedish University of Agricultural Sciences (SLU)”, Upsala, **Sweden** (26 Feb.-02 March, 2018).
- 18. China** Visit as **Invited International Speaker** in «Alliance of International Science Organisations (ANSO) in Belt and Road Region» as well as International Centre for Climate & Environment Sciences (ICCES), **Beijing, China**. (01-10 November, 2018).
- 19. Iran & Iraq** Visit as **Invited International Speaker** in Agricultural and Meteorological Software’s Laboratory, Department of Water Engineering, Faculty of Agriculture, Ferdowsi University of Mashhad, **Mashad, IRAN & visit to IRAQ** (23 July-11 August, 2019).

### **National & International Societies Memberships**

1. American Society of Agronomy (ASA), **USA** (2009-to date)
2. Crop Science Society of America (CSSA), **USA** (2009-2013)
3. Soil Science Society of America (SSSA), **USA** (2009-2013)
4. International Consortium for Agricultural Systems Applications (ICASA), **USA** (2009-to date).
5. The International Society for Agricultural Meteorology (INSAM), **USA** (2009-to date).

### **National & International Trainings/Short Courses/Workshops:**

1. International Workshop entitled "Air Quality Monitoring" organized by Department of Chemistry COMSATS University Islamabad, Lahore Campus in collaboration with American Institute of Pakistan Studies and Inter University Consortium **Pakistan** (18-19 April, 2019).
1. International Workshop on "Phytotechnologies for environmental cleanup" organized by Institute of Environmental Sciences and Engineering (IESE), at National University of Science and Technology (NUST), **Pakistan** (08-09 May, 2018).
2. International Workshop on "Energy and Water" organized by Mehran University of Engineering and Technology (MUET), Jamshoro, Sindh, **Pakistan** (12-13 December, 2017).
3. International Training Workshop on "Modelling climate impacts on water and energy use in EU irrigated agriculture" at Cranfield University, Bedford, **United Kingdom** (04-09 May, 2015)
4. International Workshop on Household Farm level Bio-Economic Modeling, CIHEAM-IAMM-Montpellier-**France** (24-27 March, 2015).
5. International Workshop of the Knowledge Action Group (KAG) of the Global Alliance for Climate-Smart Agriculture, Montpellier – **France** (March 15, 2015).

6. **French Language Course** at Centre de Francais, International Center for Advanced Mediterranean Agronomic Studies (CIHEAM), Institut Agronomique Méditerranéen de Montpellier (IAMM), Montpellier – **France** (Jan-April, 2015).
7. *The AWCI (Asian Water Cycle Initiative) International Training Workshop on “Assessment of Climate Change Impact on Watershed Hydrology and Hydrological Modeling in Cold Region Basin”* in collaboration with The University of Tokyo, JAPAN and APN (Asia-Pacific Network) for GLOBAL CHANGE RESEARCH, 15-17 September, 2014 at Pakistan Meteorological Department, Islamabad-**Pakistan**.
8. *International Training Workshop on “ASIAN MONSOON VARIABILITY & PREDICTIBILITY, 06-15 July, 2014. CAS-TWAS Center of Excellence for Climate and Environment Sciences, Institute of Atmospheric Physics, Chinese Academy of Sciences, **China** (As International Speaker).*
9. International Workshop on "Bio-char for Climate-Friendly Agriculture in Pakistan" in University of Agriculture, Faisalabad-**Pakistan**. (March, 24-27, 2014).
10. Fourth Annual AgMIP Global Workshop, Columbia University, New York, **USA** (27 -30 October 2013).
11. 3 Day Regional Consultative Workshop on "National Innovation System and Intellectual Property" (Asian Region) in Islamabad-**Pakistan** (7-9 October, 2013).
12. CCNA CISCO Certified Network Associate course under the CISCO Networking Academy (**USA**), being conducted by COMSATS Institute of Information Technology, Vehari-**Pakistan** (May-August, 2013).
13. IT Essential course under the CISCO Networking Academy (USA), being conducted by COMSATS Institute of Information Technology, Vehari-**Pakistan** (April 01 - 30, 2013).
14. *AgMIP Multiple Crop Model Training Program-APSim* (APSim training), Annapurna Hotel, Katmandu, **Nepal** (17 to 23 March, 2013).
15. AgMIP South Asia Regional Projects Kickoff Workshop (DSSAT and APSIM-Climate Change and Simulation Modeling of different major crops), Cinnamon Lakeside, Hotel, Colombo, **Sri Lanka** (November 12-16, 2012).
16. An intensive training course on “Remote Sensing & Digital Image Processing” University of Agriculture, Faisalabad-**Pakistan** (29-11-2010 to 26-12-2010).
17. International “TRAINING PROGRAMME ON CROP MODELING AND THE DECISION SUPPORT SYSTEM FOR AGROTECHNOLOGY TRANSFER (DSSAT)” (05.08.2009 to 03-03-2010), in College of Agriculture & Environmental Sciences, (Griffin) The University of Georgia, GA., **USA**.
18. Short Course on “Nursery Management” held by Pakistan Society of Horticultural Sciences (PSHS) Institute of Horticultural Sciences, University of Agriculture Faisalabad, **Pakistan**. (04-11 November, 2008)
19. Short Course on “Civil Defense Training” held in March by Agrarian Society in collaboration with Punjab Govt. Defense, in University of Agriculture Faisalabad, **Pakistan**. (25 to 28 September, 2007).
20. Short Course on “Tunnel Technology” held by PSHS in University of Agriculture Faisalabad-**Pakistan**. (19-24 February, 2007).
21. 10-Weeks “INTERNSHIP” practical training program on “ADVANCE COTTON TECHNOLOGY” at Central Cotton Research Institute Multan (CCRI), Multan-Punjab-**Pakistan**. (09.03.2005 to 20.05.2005).

### Awards/Distinction

1. Receive “**PAK-USA**” Scholarship (funded by HEC) in M.Sc (Hons.) Agronomy (2005-2007) in University of Agriculture, Faisalabad-**Pakistan**.
2. Achieve the “**Certificates of Appreciation**” from Vice Chancellor (UAF) on eve of International Symposium on *Environmental Science and Food Security* (October, 13-14, 2008), University of Agriculture, Faisalabad-**Pakistan**.

3. Receive "**Excellance Award**" from Organizing Secretary on "World Environment Day" June-5, 2008, University of Agriculture, Faisalabad-Pakistan.
4. Win the 7-months Foreign Fellowship under "International Research Support Initiative Programme" being run by HEC (No: 1-8/HEC/HRD/2009/512, PIN: IRSIP 10 Agri 05) and get the 07 month training on **DSSAT** (Decision Support System for Agro-technology Transfer) in *College of Agriculture & Environmental Sciences (Griffin Campus), The University of Georgia, USA*.
5. Receive **appreciation letter along with prize** (PAK-Rs. 5000/=) from Vice Chancellor, UAF, to complete the PhD degree in shortest duration.
6. **1<sup>st</sup> PhD Pakistani** who complete PhD in Climate Change and Crop Simulation Modeling in sunflower crop under different agro-climatic conditions of **Pakistan**.
7. Receive Letter of Appreciation from Vice Chancellor, Quaid-i-Azam University, Islamabad on receiving certificates in 2011-ISEST, in **China**.
8. Receive Travel Grant from Pakistan Science Foundation to go 2011-ISEST-**China** (PSF/P&D/T.G-II (333)/11).
9. Receive Travel Grant from Higher Education Commission of Pakistan, to go 2011-ASA/CSSA/SSSA Meetings-**USA (HEC-FD-2012/352)**.
10. Research Productivity Award (RPA) 2012, 2013, 2014, COMSATS Institute of Information Technology (CIIT), Islamabad (Nominated by worthy Rector, CIIT), **Pakistan**.
11. Worthy Vice Chancellor (University of Agriculture, Faisalabad-Pakistan) has "**awarded shield of outstanding performance** in AgMIP International Research Project (COMSATS Vehari), as well as for organizing AgMIP Kick-off Workshop and International Seminar on Climate Change" at University of Agriculture, Faisalabad-Pakistan, 4-6 June, 2013.
12. Prof. Dr. Bueh Cholaw, Deputy Director, ICCES, IAP, CAS awarded **certificate** on excellent performance (oral presentation in field of Climate Change & Crop Modeling) in an *international Training Workshop on "ASIAN MONSOON VARIBILITY & PREDICTIBILITY, 06-15 July, 2014. CAS-TWAS Center of Excellence for Climate and Environment Sciences, Institute of Atmospheric Physics, Chinese Academy of Sciences, China (As International Speaker)*.
13. Win "**Post Doctoral Fellowship**" funded by Government of France and Higher Education Commission of Pakistan from 2014-2015.
14. Win highly competitive scholarship known as "**Endeavour Award**" funded by Government of Australia for year 2015-2016.
15. Receive Travel Grant from Pakistan Science Foundation to go Turkey to attend "AgriBALKAN Agriculture Conference, Tikerdag, Turkey as oral talk. (PSF/P&D/T.G-ND (77)/17).
16. Member, Departmental Technical Review Committee, Department of Environmental Sciences, Bhauddin Zakariya University, Multan. (No. Univ-612/Admin/14722, 686, 28.11.2018).
17. External Member, Board of Studies (BoS), Department of Agronomy, MNS-University of Agriculture, Multan-Pakistan. (No. DAES/483, 02.07.2019).

**NATIONAL & INTERNATIONAL REFERENCES AVAILABLE ON REQUEST**