

Name: Dr. Fahad Rasheed

Designation: Associate Professor

E-mail: fahad.rasheed@uaf.edu.pk

Contact #: Mob +92 333 0689727

Off: +92 419200161 ext. 4414



Professional activities

- **Associate Professor:** 28/10/2021 to date... Department of Forestry & Range Management, University of Agriculture Faisalabad, Pakistan.
- **Assistant Professor:** 1/03/2014 to 27/10/2021, Department of Forestry & Range Management, University of Agriculture Faisalabad, Pakistan.
- **Assistant Professor:** 03/03/2014 to 01/04/2015: Climate Change Chair, US-Pakistan Center for Advanced studies in Food Security and Agriculture (US-PCAS-FSA); & Department of Forestry & Range Management at University of Agriculture Faisalabad, Pakistan
- **Lecturer:** 08/2007 to 30/03 2014: Department of Forestry, Range management and Wildlife, University of Agriculture Faisalabad, Pakistan.

Post Doctorate experience

| Certificate / Diploma obtained | Name and Place of Institution | Years attended | | Major Subjects Specialization |
|-----------------------------------|----------------------------------|----------------|------|-------------------------------------|
| | | From | To | |
| Post-Doctorate | University of Quebec, Canada | 2013 | 2014 | Ecophysiology and remote sensing |

Educational qualification

| Certificate obtained | Institution attended | Years attended | | Percent/Marks /Division | Major Subjects |
|-------------------------|---------------------------------------|----------------|------|--------------------------------|----------------|
| | | From | To | | |
| Ph.D. | AgroParisTech. France | 2009 | 2012 | 1 st | Forestry |
| M.Sc. | AgroParisTech. France | 2007 | 2008 | 1 st | Forestry |
| M.Sc. (hons.) | UAF FSD | 2005 | 2007 | 80.4% 3.81 | Forestry |
| B.Sc. (hons.) | UAF FSD | 2001 | 2005 | 83.3% 3.99 | Agri. Forestry |
| Matric | Divisional Model School Faisalabad | 1998 | 1999 | 74% 1 st division | Science |
| F.Sc. | BISE, FSD | 1999 | 2001 | 65.8% 1 st division | Pre-Medical |

Student supervision

| | M.Sc. (Hons.)/M.Phil completed | M.Sc. (Hons.)/M.Phil under progress | Ph.D. completed | Ph.D. under progress |
|---------------------|--------------------------------------|---|--------------------|----------------------------|
| As Supervisor | 28 | 3 | 1 | 4 |
| As committee Member | 10 | 6 | 1 | 2 |

Distinctions

- i) Academic

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1) Stood 1st in Department in B.Sc. (Hons.)

2) Stood 1st in the Department in M.Sc. (hons.)

3) Won Overseas Merit Scholarship from HEC for M.Sc. leading to Ph.D.

ii) Professional awards (Govt./Institution/Society)

Won Canadian funded Post Doctorate scholarship

iii) Sports(Intervarsity/National/International)

1) Won HEC Intervarsity Rifle shooting with GOLD medal 2003-2004

2) Best Shooter declared in HEC Intervarsity Rifle shooting in 2003 2004.

3) Participated in National games from WAPDA in Rifle shooting championship in 2005-2006

4) Won 2nd position in NAAT competition 1998-1999 and 1996-1997.

iv) Extra Curricular: Worked as Assistant Media Secretary in The Art Club University of Agriculture Faisalabad

Scientific achievement

| | |
|--|----|
| Total number of international publications: | 33 |
| No. of Publications from 2019-2024: | 25 |
| No. of publication as first or corresponding author: | 20 |
| IF last 2 years: | 26 |

Technical and Analytical Competencies (Not limited to)

Remote sensing

- Leaf Spectral Patterns (ASD FieldSpec Pro™, ViewSpecPro)
- Plant architecture (t-LiDAR)

Ecophysiology

- Resource use efficiency in plants
- Stress physiology (water, salt and VPD)
- Discrimination model for stable isotopes ¹³C (IRMS)
- Discrimination model for stable isotopes ¹⁸O (CGMS)
- Extractions protocols for
 - Leaf soluble sugars
 - Cellulose
 - Leaf water and

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- Gas exchange measurements (Li-Cor 6400, Li-Cor 6200)
- Leaf internal conductance to CO₂ (gm)
- Ternary effect
- Leaf anatomy (Microscope, Visilog software)
- Plant stress detection through leaf reflectance pattern
- Stress and plant architecture

Urban forestry

- Particulate matter (10, 2.5, 1) retention efficiency
- Particulate matter (10, 2.5, 1) removal efficiency
- Artificial rainfall system

Dendrochronology

- Tree growth, Basal area increment etc. (LINTAB, WinDendro)
- Cross dating
- Wood anatomy (Microscopy, Image J software)
- Extractions protocols for
 - Cellulose
- Dendrochronological approaches (Diachronic and synchronic)

International publications

1. Iqbal A. **Rasheed F***. Khan I. & Tanvir A.T. (2025) Microclimate amelioration results in sustainable wheat production in agroforestry versus agriculture plot: A case study in semi-arid region of Punjab, Pakistan. *Journal of Agronomy and Crop Science*. In-press **IF 3.9**
2. Ehsan G.M. Tanvir M.A. **Rasheed F.** Khan M.I. & Kashif M. (2025) Influence of Pb and Cd on the growth, physiology and HMs translocation in *Morus nigra* saplings: A case study under controlled conditions. *International Journal of Phytoremediation*. In-press. **IF 4.00**
3. Khan H.M. Hafeez S. **Rasheed F.** & Khan A.M. (2024) Dietary preferences and environmental impact of the Indian crested Porcupine (*Hystrix indica*) in Punjab, Pakistan. *Journal of Xi'an Shiyu University, Natural Sciences Edition*. 67: DOI: 10.5281/zenodo.13822319. **IF 0.91**
4. **Rasheed F***. Ruffner C. & Iqbal A. (2024) Particulate matter retention and removal efficiency in ten tree species of semi-arid environment. *International Journal of Phytoremediation*. DOI: 10.1080/15226514.2024.2420326. **IF 4.00**
5. Sabir M.A. Nawaz MF. Khan TH. Zulfiqar U. Haider F. Rahman A. Ahmad I. **Rasheed F.** Gul S. Hussain S. Iqbal R. Rehman MH. (2024). Investigating seasonal air quality

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variations consequent to the urban vegetation in the metropolis of Faisalabad, Pakistan. *Scientific Reports*. 14: 452. **IF 4.6**

6. **Rasheed, F***; Gondal, A.; Kudus, K.A.; Zafar, Z.; Nawaz, M.F.; Khan, W.R.; Abdullah, M.; Ibrahim, F.H.; Depardieu, C.; Pazi, A.M.M.; et al. (2021). Effects of soil water deficit on three tree species of the arid environment: variations in growth, physiology, and antioxidant enzyme activities. *Sustainability* 2021, doi.org/10.3390/su13063336. **IF 3.9**
7. Hassan K. Mahr. Iqbal J. Javed H.M.A. Raza A. **Rasheed F***. (2023). Directional variability of wood properties in *Pinus Wallichiana* and *Dalbergia sissoo* of South Asian origin. *International Wood products Journal*. 14: 102-108. **IF 0.287**.
8. Nayyab D, Turabi T.H. Sabir M.A. Naseer J. Yousaf M.T.Y. **Rasheed F**. Maqsood M.F. Khan R.I. Hafeez M. & Shafae G. (2023) Investigating Adaptation Mechanisms in *Vachellia nilotica* Facing Water Scarcity: Implications for Conservation. *Plants and environment*. 4: 275-285.
9. Zafar Z. **Rasheed F**. Mushtaq N. Khan U.M. Mohsin M. Irshad M.A. Summer M. Raza Z & Gailing O. (2023) Exogenous application of salicylic acid improves physiological and biochemical attributes of *Morus alba* saplings under soil water deficit. *Forests*. 14: 236. **IF 3.82**
10. Zafar. Z. **Rasheed F***. Atif R.M. Maqsood M & Gailing O. (2021). Salicylic acid-induced morpho-physiological and biochemical changes triggered water deficit tolerance in *Syzygium cumini* L. saplings. *Forests*. 12: doi.org/10.3390/f12040491. **IF 3.82**.
11. Arif A. **Rasheed F**. Hussain M.S. Ashraf I. Nawaz M.F. Tanvir A.T. (2021) Acclimatization strategy of two common tree species under water stress. *Pak. J. Bot.* 53: DOI: [http://dx.doi.org/10.30848/PJB2022-3\(14\)](http://dx.doi.org/10.30848/PJB2022-3(14)). **IF 1.10**
12. Zafar Z, **Rasheed F ***, Khan W.R. Mohsin M. Rashid Z.M. Magiman M.M. Raza Z. Rosli Z. Afzal S. Abu Bakar F. (2022) The changes in growth, osmolyte production and antioxidant enzyme activity explains the cadmium tolerance in four tree species at the sapling stage. *Forests*. 13: 1343. **IF 3.82**.
13. Zafar Z, **Rasheed F***, Atif R.M, Javed M.A, Maqsood M, Gailing O. (2021). Foliar application of salicylic acid improves water stress tolerance in *Conocarpus erectus* L. and *Populus deltoides* L. saplings: evidence from morphological, physiological and biochemical changes. *Plants*. 10.1242. 3.93. **IF 4.86**.
14. Zafar Z, **Rasheed F ***, Haq A. Ibrahim F.H, Afzal S, Nazre M, Akram S, Hussain H, Kudus K.A, Mohsin M, Khan W.R, Qadeer A, Raza Z. (2021). Interspecific differences in physiological and biochemical traits drives the water stress tolerance in young *Morus alba*. L and *Conocarpus erectus*. L saplings. *Plants*. 10.1615. 3.93 **IF 4.86**

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15. Sabir M.Z. Nawaz M.F. **Rasheed F.** Naeem S.M. & Jaskani M.J. (2021) Opinion of urban dwellers varies to manage the urban spaces for urban forestry: a case study of Faisalabad city. *Pak. J. Agri. Sci.* 55: 105-113. **IF 0.856**
16. Mohsin M, Salam MMA, **Rasheed F.** Ramzan M, Zafar Z, Pulkkinen P (2020) Assessment of European and hybrid aspen clones efficiency based on height growth and removal percentage of petroleum hydrocarbons: A field trail *Environmental Science and Pollution Research* <https://doi.org/10.1007/s11356-020-10453-4>. **IF 5.19**
17. **Rasheed F.** Dreyer E. Richard B. Brignolas F. Brendel O. Le Thiec D. (2015) Vapour pressure deficit during growth has little impact on genotypic differences of transpiration efficiency at leaf and whole-plant level: an example from *Populus nigra* L. *Plant, Cell and Environment*. 38: 670-684. **IF 7.94**
18. Khan WR, **Rasheed F.** Zulkifli SZ, Kasim MRM, Zimmer M, Pazi AM, Kamrudin NA, Zafar Z, Faridah-Hanum I and Nazre M (2020) Phytoextraction potential of *Rhizophora apiculata*: A case study in Matang Mangrove Forest Reserve, Malaysia. *Tropical Conservation Science*, DOI: 10.1177/1940082920947344. **IF 1.73**
19. **Rasheed F***. Bakhsh R. Qadir I. (2020) Trade-off between shoot and root dry weight along with a steady CO₂ assimilation rate ensures the survival of *Eucalyptus camaldulensis* under salt stress. *Journal of Forest Sciences*. 66: 1-9. **IF 0.262**
20. Rafay M. Ahmad G. Ruby T. Abdullah M. **Rasheed F.** Abid M. Akthar S. Ahmad Z & Hussain R. 2020. Breeding and feeding behavior of Jungle babbler (*Turdiodes striata* Dumont, 1923) in Agro-ecological zones of district Layyah, Pakistan. *Pak. J. Zool.* 52: 1701-1708. **IF 0.687.**
21. **Rasheed F***, Delagrang S, Lorrenzetti F (2019) Detection of plant water stress in three poplar hybrids prior to the onset of physiological effects using leaf spectral responses *International Journal Remote Sensing* 41:14, 5127-5146. **IF 3.53**
22. **Rasheed F***, Zafar Z, Waseem ZA, Rafay M, Abdullah A, Salam MMA, Mohsin M Khan WR (2019) Phytoaccumulation of Zn, Pb, and Cd in *Conocarpus lancifolius* irrigated with wastewater: does physiological response influence heavy metal uptake? *International Journal of Phytoremediation*. DOI: 10.1080/15226514.2019.1658711. **IF 4.00**
23. Zafar Z, **Rasheed F***, Abdullah M, Salam MMA, Mohsin M (2018) Effects of water deficit on growth and physiology of young *Conocarpus erectus* and *Ficus benjamina* saplings. *Bangladesh Journal of Botany*, 4 pp. 1215-1221. **IF 0.339**
24. **Rasheed F** and Delagrang S. (2016) Acclimation of *Betula alleghaniensis* Briton to moderate soil water deficit: small morphological changes make for important consequences in crown display. *Tree Physiology*. 36: 1320-1329. **IF 4.56**

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25. Sabir MA, **Rasheed F***, Zafar Z, Khan I, Nawaz MF, Haq I, Bilal M (2019) A consistent CO₂ assimilation rate and an enhanced root development drives the tolerance mechanism in *Ziziphus jujuba* under soil water deficit *Arid land Research and Management* DOI: 10.1080/15324982.2020.1748140. **IF 1.4**
26. Khan W. Zulkifli S.Z. Kasim M.R. Zimmer M. Pazi A.M. Kamarudin N.A. **Rasheed F**, Zafar Z. Mostapa R. Nazre M. (2020) Risk assessment of heavy metals concentration in sediments of Matang Mangrove Forest Reserve. *Tropical Conservation Science*. DOI: 10.1177/1940082920933122. **IF 1.73**
27. Mahmood F, Shahid M, Hussain S, Haider MZ, Shahzad T, Ahmed T Noman M, **Rasheed F**, Khan MB, (2020) *Bacillus firmus* strain FSS2C ameliorated oxidative stress in wheat plants induced by azo dye (reactive black-5) 3 *Biotech* 10:40 <https://doi.org/10.1007/s13205-019-2031-y>. **IF 2.89**
28. Zafar Z, **Rasheed F***, Delagrang S, Abdullah M, Ruffner C. (2019) Acclimatization of *Terminalia arjuna* saplings to salt stress: Characterization of growth, biomass and photosynthetic parameter. *Journal of Sustainable Forestry*. 39 pp. 76-91. **IF 1.42**
29. **Rasheed F***, Dreyer E, Le Thiec D, Zafar Z, Delagrang S (2019) Tree age-related trends do not affect the ranking for water use efficiency (recorded from $\delta^{13}\text{C}$) among 3 *Populus deltoides* × *nigra* genotypes: A synchronic approach in plantations across France. *iForest* 12 pp.272-278. **IF 1.58**
30. **Rasheed F***, Hafeez S, Bhabha I. Q (2005) Phytosociological study and determination of carrying capacity of the reserve forest compartment -17 of Margallah Hills National Park. *Pak. J. Agri. Sci.* 42: 71-74. **IF 0.856**
31. Hussain Z. **Rasheed F***. Tanvir M.A. Zafar Z. Rafay M. Mohsin M. Pulkkinen P. & Ruffner C. (2020) Increased antioxidative enzyme activity mediated the phytoaccumulation potential of Pb in four agroforestry tree species: a case study under municipal and industrial wastewater irrigation. *International Journal of Phytoremediation*. DOI: 10.1080/15226514.2020.1849016. **IF 4.00**
32. Abdullah M, Rafay M, **Rasheed F**, Ahmad M. Kamran Z. Azhar M.F. Akram M. Ihsan M.Z. Ali L. & Ahmad T.I. (2020). Phytosociological assessment of browsing vegetation in association with edaphic factors in the Cholistan Rangelands of Pakistan. *Applied Ecology and Environmental Research*. 18: 7813-7827. **IF 0.9**
33. Abdullah M, Rafay M, Sial N, **Rasheed F**, Nawaz M.F, Nouman W, Ahmad I, Rubby T, Khalil S (2017) Determination of forage productivity, carrying capacity and palatability of browse vegetation in arid range lands of Cholistan desert (Pakistan). *Applied Ecology and Environmental Research*. Vol 4 pp. 623-637. **IF 0.816**

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34. **Rasheed F.** Dreyer E. Richard B. Brignolas F. Montpied P. Le Thiec D. (2013) Genotype differences in ^{13}C discrimination between atmospheric and leaf matter match differences in transpiration efficiency at leaf and whole-plant levels in hybrid *Populus deltoides* x *nigra*. *Plant Cell and Environment* 36: 87-102. **IF 7.94**
35. Abdullah M, Rafay M, Hussain T, Ahmad H, Tahir U, **Rasheed F**, Rubby T, Khalil S (2017) Nutritive potential and palatability preference of browse foliage by livestock in arid rangelands of Cholistan desert (Pakistan). *The J. Anim. Plant Sci.* 5: 1656-1664. **IF 0.57**
36. **Rasheed F.** Richard B. Le Thiec D. Montpied P. Paillassa E. Brignolas F. Dreyer E. (2011) Time course of $\delta^{13}\text{C}$ in poplar wood: genotype ranking remains stable over the life cycle of plantations despite some differences between cellulose and bulk wood. *Tree Physiology*. 31: 1183-1193. **IF 4.56**
37. Ashfaq M. Khan R.A., Khan M.A, **Rasheed F.** & Hafeez S. 2005. Insect orientation to various color light in the agricultural biomes of Faisalabad. *Pak. Entomol.* 27: 49-52.

Book Chapters

| | | | | |
|----|--|------|---|---|
| 1. | Bahir H. Bibi I. Jafar A. Niazi N.K. Rasheed F. Ghafoor N. Saleem A. Hussain M.M & Farooqi Z. | 2023 | <i>Role of biofuels in building circular bioeconomy</i> | Biofuels in Circular Economy (pp. 59-71). Singapore: Springer Nature Singapore. |
| 1. | Hussain M.M. Din W.M. Younas F. Niazi N.K. Bibi I. Yang X. Rasheed F. Farooqi Z.R. | 2022 | <i>Biochar: A game changer for sustainable agriculture</i> | Sustainable agriculture: Technical progressions and transitions. Springer |
| 2. | Hussain MM, Farooqi ZR, Rasheed F & Din WM. | 2021 | <i>Role of microorganisms as climate Engineers: Mitigation and adaptations to climate change.</i> | Climate Change and Microbes: Impacts and Vulnerability. Apple Academic Press |
| 3. | Rasheed F , Yaqoob S, & Ahmad F.M. | 2017 | Chapter 2. <i>Forest types of Pakistan.</i> | Textbook of Applied Forestry University of Agriculture Faisalabad |
| 4. | Gul S. Siddiqui ZS. Noman A & Rasheed F. | 2017 | Chapter 3. <i>Tree Anatomy and Physiology.</i> | Textbook of Applied Forestry. University of Agriculture Faisalabad |

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List of Research Projects

| S.No | Project Title | Funding Agency | Amount | Status |
|------|--|---|-------------------|-------------|
| 1. | PI: Integrating climate change adaptation and mitigation in agriculture system through Agroforestry for ecosystem conservation (NR-205) | Agriculture Linkage Program (ALP) PARC, Islamabad, Pakistan | Rs. 7 million | In-progress |
| 2. | PI: Contributing for a breathable future: Characterizing the efficiency of local tree species for controlling particulate matter in Faisalabad district | TREE FUND, Washington, USA | 9,967 \$ USD | Completed |
| 3. | PI: Extensive site-specific plantations of tree species to control atmospheric pollution in Faisalabad city | SIPOP project, Higher Education Commission Pakistan | Rs. 0.822 million | Completed |
| 4. | Co-PI: Sylvicultural trials to counter the spread of Sugar maple by Beech: Remeasurement after 6 years of treatment application | MRC des Collines de la Outaouais | 2 Million \$CA | Completed |

Courses

| Sr. No | Course number | Course title | Credit hours |
|--------|---------------|--|--------------|
| 1. | FRW-306 | Forestry and climate change | 3 (2-1) |
| 2. | FRW-401 | Agro-forestry, Range and Wildlife Management | 3 (2-1) |
| 3. | FRW-601 | Wood Science and technology | 3 (2-1) |
| 4. | FRW-708 | Advances in Range vegetation physiology, ecology | 3 (2-1) |
| 5. | FRW-713 | Advances in Watershed Management | 3 (2-1) |

Conferences/ Trainings/ Seminars

Oral Presentation and abstracts in Conferences

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| Sr. No. | Description | Year |
|---------|--|------|
| 1. | Rasheed F , Richard B, Paillassa E, Barbaroux C, Brignolas F, Dreyer E. Age related evolution of water use efficiency in Poplar clones (Populus x euramericana). Meeting annuel dans le cadre du projet Européen NOVELTREE, Alnarp, Suède. 24-25 March Oral presentation. | 2009 |
| 2. | Rasheed F , Richard B, Paillassa E, Barbaroux C, Brignolas F, Dreyer E. Are clonal differences for water use efficiency stable with tree age in poplar (Populus x euramericana). Meeting annual dans le cadre du projet Européen NOVELTREE, 4-7 Avril 2011. INRIA, Madrid, Espagne. Oral presentation. | 2011 |
| 3. | Rasheed F , Richard B, Barbaroux C, Paillassa E, Brignolas F, Le Thiec D, Dreyer E. Time course of $\delta^{13}C$ in poplar wood: genotype ranking remains stable over the life-cycle in plantations despite some differences between cellulose and bulk-wood. Meeting annual de GASIR, 10-12 Octobre 2011. Paul Scherrer Institut in VILLIGEN, Switzerland. Oral presentation. | 2011 |
| 4. | Rasheed F , Richard B, Le Thiec D, Paillassa E, Brignolas F, Dreyer E. 2011. Time course of $\delta^{13}C$ in the cellulose from poplar wood: temporal increase was found in $\delta^{13}C$ offset between cellulose and bulkwood, however genotype ranking remains stable over the life-cycle in plantations. Conférence internationale "Poplars and Willows on the Prairies: Traditional Practices meet Innovative Applications", 18-22 Septembre 2011. Poplar Council of Canada, Edmonton, Canada. Oral presentation. | 2011 |
| 5. | Rasheed F , Dreyer E, Richard B, Brignolas F, Montpied P, Brendel O, Le Thiec D. Upscaling transpiration efficiency from leaf (^{13}C discrimination and gas exchange) to whole plant level in six genotypes of Populus nigra L. grown under two levels of vapour pressure deficit. Conférence de clôture du projet Européen NOVELTREE, 16-18 Octobre 2012, Helsinki, Finland. Poster. | 2012 |
| 6. | Oral Presentation on "Effects of vapour pressure deficit on transpiration efficiency in Populus Nigra genotypes: Evidences of mesophyll conductance and genotypic differences". Annual meeting of Poplar and Willow Council of Canada (PWCC). Lac-Duparquet Research and Teaching Forest research station of the Université du Québec en Abitibi- Témiscamingue (UQAT), Rouyn-Noranda, QC, Canada. 16 - 18 Sep. 2015 | 2015 |
| 7. | Oral Presetation on "Detecting low levels of water stress | 2014 |

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| | through leaf spectral patterns” Colloque du CEF 2014, 29-30 Avril 2014. Institut de Recherche en Biologie Végétale, Jardin Botanique de Montréal, Montréal, QC, Canada. | |
| 8. | Oral Presetation on “Acclimatation du bouleau jaune au stress hydrique modéré: de petits ajustements morphologiques avec de grandes conséquences sur l'arrangement de la cime. Colloque du CEF 2016, 2-3 May 2016. Universite de Quebec a Montréal, Montréal, QC, Canada | 2016 |
| 9. | Oral presentation on “Leaf spectral reflectance as a tool for the early water stress detection: A case study in poplar hybrids”, at the International Conference on Forestry and environments: challenges and prospects. 21-22 November 2016. Department of Forestry, University of Agriculture Faisalabad. | 2016 |
| 10. | Zafar Z & Rasheed F. 2016. “ Salt tolerance in <i>Terminalia Arjina</i> seedling: Moderate salt stress has little impact on biomass production, partitioning and plant physiology ”. International Conference on Forestry and Environment: challenges and prospects. November 21-22 2016, Department of Forestry & Range Management, University of Agriculture Faisalabad, Pakistan. Abstract submission. | 2016 |
| 11. | Oral presentation on “Leaf spectral reflectance as a tool for the Early water stress detection: a case study on three poplars hybrid” in International conference on “Water use Efficiency under Drought, IUFRO 125 th Anniversary Congress 2017- Side Event” Champenoux, France September 18, 2017. | 2017 |
| 12. | Zikria Zafar, Fahad Rasheed , Muhammad Azeem Sabir. “ Effect of Moderate salt stress on the biomass production, partitioning and plant physiology in young <i>Terminalia arjuna</i> plants ”. 1 st International conference on Climate Change and Biodiversity (IC ³ B-2017). Cholistan Institute of Deseret studies (CIDS). The Islamia University Bahawalpur (May 02-04, 2017). | 2017 |
| 13. | Arslan Arif, Fahad Rasheed and Zikria Zafar and Muhammad Azeem Sabir. “ Acclimatization strategy of five wood Production species under water stress ”. 1 st International conference on Climate Change and Biodiversity (IC ³ B-2017). Cholistan Institute of Deseret studies (CIDS). The Islamia University Bahawalpur (May 02-04, 2017). | 2017 |
| 14. | Muhammad Azeem Sabir, Fahad Rasheed and Zikria Zafar. “ Effect of | 2017 |

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| | water stress in Zizyphus jujuba, Evidence from of tree growth and plant physiology". 1 st International conference on Climate Change and Biodiversity (IC ³ B-2017). Cholistan Institute of Deseret studies (CIDS). The Islamia University Bahawalpur (May 02-04, 2017). | |
| 15. | Zikria Zafar M. Faheem-ud-Din Fahad Rasheed Azeem Sabir Arslan. "Physiology and Morphological adaption of <i>Cassia fistula</i> against water stress" . 7th National Conference Biodiversity Conservation, Livelihood and Sustainable Development at Baragali Summer Campus University of Peshawar (July 10-12, 2017). | 2017 |
| 16. | Zikria Zafar, Fahad Rasheed , Muhammad Azeem Sabir, Zohaib Raza, Jahanzaib, Zafar Hussain, Rao M. Sajjad Sharif. "Phytoremediation ability of <i>Conocarpus Lancifolius</i>: A comparative study on Biomass production, partitioning, and plant physiology" . 1 st International Conference on "Conventional and Modern Approaches in Plant Sciences" November 28-29, 2017. Botany Department, University of Punjab Lahore Pakistan. | 2017 |
| 17. | Zikria Zafar, Fahad Rasheed , Zafar Hussain and Azeem Sabir and M. Zubair Arif. "Salt stress effect on germination, growth, biomass production and partitioning of <i>Populus deltoids</i>" 1 st international conference on Challenges and opportunities to boost Agriculture in changing climate. College of Agriculture BZU, Bhawalpur sub-campus Layyah, Pakistan. March 26-28 2018. | 2018 |
| 18. | Oral Presentation on "Effects of water deficit on growth, antioxidant metabolism and osmolyte accumulation in three tree species" in 2 nd International Conference on Plant Sciences, organized by GC University Lahore. 5-7 Dec | 2018 |
| 19. | Oral Presentation on "A comparative study on Water use efficiency of <i>Conocarpus Erectus</i> and <i>Ficus Benjamina</i> Species under water stress" in 13 th International Conference on Trends in Agriculture, Chemical, Environmental and Biological Sciences (TACEBS-18) 25-26 June London, UK | 2018 |
| 20. | Oral presentation on "Osmoregulates and antioxidants producing in three forest species under heavy metal stress of cadmium and arsenic" in Innovation in Agriculture, Institute of Soil and environmental sciences, University of Agriculture Faisalabad. 13-15 Feb | 2019 |

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| 21. | Oral Presentation at “Cultural heritage and Human resilience in desert environment” at Department of Botany. Pir Mehr Ali Shah Arid Agriculture University. Rawalpindi. 17 June | 2020 |
| 22. | Oral presentation on “Agroforestry and Climate Change: A comparison of microclimate, wheat productivity under alley and monocropping agriculture system” in international conference of Climate change: Impacts and solutions. Organized by Institute of Soil and environmental sciences, University of Agriculture, Faisalabad, Pakistan. 7-9 Nov. | 2022 |
| 23. | Keynote speaker “Nature based solutions to climate change” University of Sargodha. 2024 | 2024 |

| Trainings | | |
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| Sr. No. | Description | Year |
| 1. | International doctoral training course “ Use of Stable Isotopes in Forest Ecology ” 16-20 March. National Institute for Agronomic Research, Champenoux, Nancy, France. | 2009 |
| 2. | 2 nd International training and meeting on “ Novel Tree Breeding Strategies ”, 3-4 Nov. Viterbo, Italy. | 2010 |
| 3. | Two days training program on “ Decision Support System for Agro-Technology Transfer ” held on August 18-19, 2015 organized by US-Pakistan Center for Advanced Studies in Agriculture and Food Security, University of Agriculture. | 2015 |
| 4. | Two days training course on “ Remote Sensing and Digital Image Processing for Precision Agriculture ” held on 26-27 August 2015 by US-Pakistan Center for Advanced Studies in Agriculture and Food Security. | 2015 |
| 5. | Certificate of Completion “ Community Based Prevention, Detection and Response to all Hazards Training Program ” (32 Contact Hours) organized by The Center for Agriculture and Food Security and Preparedness on August 18, 2016 at Institute of Agriculture, The University of Tennessee, 13-19 august 2016 | 2016 |

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| 6. | Training course on “ Climate Change-Implications and Adaptation for Rural Areas ” held on 19 th December to 23 rd December 2016 organized by Government of Pakistan AHK National Centre for Rural Development Establishment Division Islamabad. | 2016 |
| 7. | Hands on Training Workshop on “ Agriculture Production system Simulator (APSIM) Modeling ” organized by Climate Change Chair, USPCAS-AFS on August 30-September 01,2016 at University of Agriculture, Faisalabad. | 2016 |
| 8. | 2 nd National stakeholder’s Conference on “ Current Status and Future Prospects of Adopting Precision Agriculture in Pakistan’s Farm Setting ” by US-Pakistan Center for Advanced Studies in Agriculture and Food Security 16 April. | 2016 |
| 9. | Certificate of completion of International Training on “ Advanced Community Based Prevention, Detection, and Response to All Hazards Training Program ”. The Center for Agriculture and Food Security and Preparedness, The University of Tennessee USA. 28 Contact Hours. Held in Thailand 4 August 2017. | 2017 |
| 10. | National training program in “ An Introduction to LATEX UAF Synopsis and Thesis ”. Sponsored by US-Pakistan Center for Advanced Studies in Agriculture and Food Security (USPCAS – AFS) and Department of Mathematics & Statistics, University of Agriculture, Faisalabad. 26-28 July 2017. | 2017 |
| 11. | Workshop on “ Tree Rings and Climate Change ” organized by Government of Khyber Pakhtunkhwa Forestry, Environment and wildlife department on April 24-25, 2017 at Pakistan Forest Institute Peshawar. | 2017 |