

**Dr. HAROON KHAN (Deputy Director/Associate Professor)**

**Mailing Address:** → :→ Climate Change Centre (CCC), The University of Agriculture, Peshawar, Khyber Pakhtunkhwa-25130, Pakistan  
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**Personal Information:**

Name: Dr. Haroon Khan  
 Father's Name: Muhammad Ghani  
 Permanent address: Mohalla: Usman Khail, GuL Abad, Village & Post Office: Yar Hussain, P. Box No: 23200, Tehsil: Razzar, District: Swabi, Khyber Pakhtunkhwa- Pakistan.  
 Date of Birth: 30-12-1979  
 Domicile: Swabi  
 Religion: Islam  
 Marital Status: Married  
 Nationality: Pakistani  
 Languages: Pashto, Urdu & English

**Professional Goal:**

- To impart quality education in Weed Science, Botany & Climate Change.
- To find out the sustainable, eco-friendly and economically feasible weed management strategies for major crops.

**Area of Specialization:**

Weed Ecology & Climate Change

**HEC Approved Supervisor**

**TWAS Portfolio of Host Supervisors:** Working as Ph.D. Supervisor in, The World Academy of Sciences, Trieste, Italy.

**HEC Approved Research Projects Evaluator**

**DOST KP Approved Supervisor:** The Government of Khyber Pakhtunkhwa's Directorate General of Science & Technology Approved Supervisor for PhD & Post-Doc.

**Academic Qualifications:**

- ✦ **Post Doctorate---**2023---Faculty of Agriculture, Kahramanmaraş Sutcu Imam University, Türkiye.  
Project Title "Impact of changing climate on the poisonous weeds of forages and rangelands".
- ✦ **Ph.D. (Weed Ecology)---**2012---**CGPA 3.71/4.00 (80.17 %)**, The University of Agriculture, Peshawar & The University of Queensland, Brisbane, Australia (HEC Split PhD Scholarship Program)  
Dissertation Title: Distribution and Management of Parthenium Weed in Peshawar Valley, Northwest-Pakistan
- ✦ **M.Sc. Hons (Agriculture/Weed Science)---**2004 ----- **CGPA 3.92/4.00 (90.85 %)**  
The University of Agriculture, Peshawar (UAP) -Pakistan
- ✦ **B.Sc. Hons (Agriculture/Weed Science)---**2002 ----- **CGPA 3.81/4.00 (87.40 %)**  
The University of Agriculture, Peshawar-Pakistan
- ✦ **F.Sc. -----1998-----**Nisar Shaheed Degree College, Risalpur (FBISE-Islamabad)
- ✦ **S.S.C. (Science)-----1996 ---**Govt. High School No. 1, Yar Hussain (BISE-Peshawar)

**Professional Experience:**

- Working as a Founding **Deputy Director**, Climate Change Centre, UAP, Pakistan (Since January, 2014.....till-to-date).

**Job Description Included:**

- to study the impact of emerging crops corridors in each agro-ecological zone, given the changing temperature and precipitation scenarios, on rural economy and livelihood of farming communities
  - to promote the culture of adaptation to CC in various academic & research programs of University
  - to conduct studies on various aspects of CC like water and crops implying the livelihood of people
  - to develop training material on cc for farmers, staff of line departments, and other stakeholders
  - to develop zone-wise weather scenarios and adaptation plans
  - to support the university faculties in prioritizing research themes on cc
  - to develop pc-1s, proposals and concept notes
  - to develop linkages with national and international organizations
  - to organize seminars, workshops, trainings & conferences
- **Associate Professor (Tenured) (BPS-20)** in the Department of Weed Science & Botany, UAP, Pakistan (From 19 December 2019--till--to date).
  - **Assistant Professor (BPS-19)** in Department of Weed Science & Botany, UAP, Pakistan (From 08 December 2016 to 18 December 2019).
  - **Lecturer (BPS-18)** in Department of Weed Science & Botany, The University of Agriculture, Peshawar, (UAP) Pakistan (11, March, 2013 to 7 December 2016).
  - Worked in Khyber Tobacco Company Ltd. as a **Leaf Agronomy Consultant** (2013-2015).
  - Work in Philip Morris International (Formerly Lakson Tobacco Company Ltd.) as a **Regional Agronomy Manager** from January 1, 2005 to March 10, 2013.
  - Worked as a **Research Fellow** at the School of Agriculture & Food Sciences, The University of Queensland, Brisbane, Australia (March 10, 2011, to August 30, 2011), The fellowship was funded by the HEC Islamabad under the International Linkages Project.

**Book Published:**

Title: Weeds of Tobacco in Pakistan  
 Author: Haroon Khan  
 ISBN: 978-38454-2035-6

**Book Chapter Published:**

1. **Impact of climatic change on flora of high altitude of Pakistan.** In Climate Change Impacts on High-Altitude Ecosystems. By Ozturk, M. Hakeem, K.R. Faridah-Hanum, I. Efe, R. (sEds.).  
**Publisher:** Springer Nature Switzerland AGr. 2015  
<http://www.springer.com/life+sciences/ecology/book/978-3-319-12858-0>  
**ISBN:** 978-3-319-12858
2. **Implications of climate change on the nasty weeds of forages and rangelands.** In a Look into Some Recent Advances in Biology, Ecology and Agricultural Practices. By Prof. Dr. Ozlem Toncer and Dr. Zubeyir GUNES.  
**Publisher:** Institution of Economic Development and Social Researches Publications® (Licence No:of Publicator: 2014/31220) USA: +1 631 685 0 853. www.iksadyayinevi.com, IKSAD Publications- 2022  
**ISBN:** 978-625-6380-80-6
3. **Management and utilization of water hyacinth (*Eichhornia crassipes* mart.).** In a Look into Some Recent Advances in Biology, Ecology and Agricultural Practices. By Prof. Dr. Ozlem Toncer and Dr. Zubeyir GUNES.  
**Publisher:** Institution of Economic Development and Social Researches Publications® (Licence No:of Publicator: 2014/31220) USA: +1 631 685 0 853. www.iksadyayinevi.com, IKSAD Publications- 2022  
**ISBN:** 978-625-6380-80-6.

4. **Impacts of alien weed invasion on agricultural Production and biodiversity in Pakistan.** In Advanced Strategies For Agriculture - II, By Assoc. Prof. Dr. Abdullah EREN. **Publisher:** Institution of Economic Development and Social Researches Publications® (Licence No: of Publicator: 2014/31220) USA: +1 631 685 0 853. www.iksadyayinevi.com, IKSAD Publications- 2023 ISBN: 978-625-367-564-6
5. **Sustainable management of parthenium weed Through Biochar production.** In Advanced Strategies For Agriculture - II, By Assoc. Prof. Dr. Abdullah EREN. **Publisher:** Institution of Economic Development and Social Researches Publications® (Licence No: of Publicator: 2014/31220) USA: +1 631 685 0 853. www.iksadyayinevi.com, IKSAD Publications- 2023. ISBN: 978-625-367-564-6.

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#### **Developed PhD course on "WS-716: Weed Management & Climate Change**

##### **Technical Reports Prepared & Contributed:**

- Training Module Climate Smart Agriculture: Pathways to Strengthening Capabilities for Climate Smart Agriculture in Pakistan - Khyber-Pakhtunkhwa and Baluchistan
- Climate-Smart Agriculture in Khyber Pakhtunkhwa, Pakistan. CSA Country Profiles for Asia Series. Alliance of Bioversity International & CIAT (Alliance); FAO
- Forecasting Impact of Climate Change on Key Crops of 10 selected Districts of KPK-Pakistan (2019).
- Climate scenarios 2011-2040 for ten Districts of Khyber Pakhtunkhwa-Pakistan (2018).
- Climate change and adaptation-farmers; experiences from rainfed areas of Pakistan (2014).
- Climate scenarios 2011-2040 Districts Haripur, Swabi, Attock and Chakwal Pakistan (2014).

**Courses Taught to BSc, MSc (Hons) & PhD students:** Weed Management & Climate Change, Eco-Physiology of Weeds, Advanced Weed Ecology, Applied Weed Science, Chemical Weed Control, Applied Ethno-botany, Intr. to Botany, Weed Physiology and Plant Physiology.

##### **Post-Graduate students supervised:**

1. Muhammad Ibrahim, PhD -Weed Science( In-progress)
2. Muhammad Fawad, PhD-Weed Science-2022
3. Ijaz Ahmad-Weed Science, PhD-2021
4. Ishaq Ali Shah- UOP-Botany-2023
5. Jan Mohd-Water Resource Management-2022
6. Saiful Islam-Water Resource Management-2021
7. Abdul Samad M.Sc. (Hons) Weed Science-2024
8. Shahab Ali M.Sc. (Hons) Weed Science-2023
9. Ahmad Ali M.Sc. (Hons) Weed Science-2023
10. Bilal Khan M.Sc. (Hons) Weed Science-2022
11. Muhammad Fawad, M.Sc. (Hons) Weed Science
12. Shah Zareen, M.Sc. (Hons) Weed Science
13. Ishaq Ali Shah, M. Phil Botany
14. Umer Zeb, M. Phil Botany
15. Salma Begum, Msc Botany
16. Saima Maqbool, Msc Botany
17. Fareeha Samen, Msc Botany

##### **Undergraduate students supervised and awarded degrees:**

1. Hassan Raza B.Sc. (Hons) Weed Science
2. Muhammad Ibrahim B.Sc. (Hons) Weed Science
3. Adil, B.Sc. (Hons) Weed Science
4. Awais B.Sc. (Hons) Weed Science
5. Manzoor Ali B.Sc. (Hons) Weed Science
6. Muhammad Mubassir B.Sc. (Hons) Weed Science
7. Sadam Hussain B.Sc. (Hons) Weed Science
8. Huzaiifa Hamad B.Sc. (Hons) Weed Science

##### **Referee/Reviewer/Editor:**

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- Review Board Member of the Proceeding "8<sup>th</sup> International Conference on Climate Change 2024". Organized by The International Institute of Knowledge Management, Sri Lanka.
  - Pakistan Journal of Weed Science Research
  - Pakistan Journal of Forestry
  - Sarhad Journal of Agriculture, Smith & Franklin Academic Publishing Corporation UK
  - Journal Revista Planta Daninha, Brazil
  - Pakistan Journal of Agricultural Research; Pakistan Agricultural Research Council
  - Senior Editor of International Journal Agricultural and Environmental Research
  - Gesunde Pflanzen- Germany

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**Computer Skills:** MS Office, Statistix and Operation of Climex software package (Using simulation and modeling techniques, for exploring the relationship between organisms and their climatic environment).

**Professional Societies Membership**

- Weed Science Society of Pakistan (Life Membership)
- Italo-Latin American Society of Ethnomedicine (Life Membership)
- The International Society for Agricultural Metrology
- National Academy of Young Scientists Pakistan
- Citizens Commission on Human Rights International USA
- Asian Apicultural Association
- Asia-Pacific Chemical, Biological & Environmental Engineering Society (M.No:201981)
- Asia-Pacific Network for Global Change Research (APN)
- Moringa for life: A non-profitable society for creating awareness about Moringa
- Saudi Arabian Water Environment Association

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**Services:**

- Member of Technical Committee on Mitigation, Ministry of Energy (Power Division), Islamabad.
- Fellow of The Himalayan University Consortium (HUC) Academy, (ICIMOD), Kathmandu, Nepal
- Coordinator (PAGE) Expert Group on Adaptation Planning in Climate change.
- Focal Person form UAP for Environmental Protection Agency KPK (EPA)
- Member, Syndicate, University of Agriculture, Peshawar ( 2014-2015)
- President Blood Donors Society, UAP-Peshawar (2003-04)
- Member Pakistan Tobacco Board (PTB) National Cost of Production Committee (2011-2013)
- Member PTB Research Coordination Committee, Ministry of National Food Security & Res. Pakistan
- Resource Person Pakistan Red Crescent Society, Peshawar, EPA & UNDP
- Focal Person Quality Assurance Department, Prime Minister Laptop Scheme, Alumni Association, Learning Management System, Department of Weed Sciences, UAP.
- Member, Institutional Disciplinary Committee, Student Grievances Settlement Committee, Ethics Committee, Admission Committee, Convocation Committee, and Students Tour Committee, UAP.

**Awards:**

- Granted Turkey Burslari Post-Doctoral Research Fellowship (2022)
- HEC Scholarship for SPLIT PhD program
- 2<sup>nd</sup> Position in B.Sc. (Hons) Department of Weed Science
- 3<sup>rd</sup> Position M.Sc (Hons) in the Department of Weed Science
- HEC Travel Grant for 2<sup>nd</sup> Inter. Biotech. Chemical Eng. & Life Sci. Conf. Japan (20-22 July 2015).
- HEC Travel Grant for the Ecology 17 Inter. Conference on Ecology, Ecosystem & Climate Change" Istanbul, Turkey (February 17-18, 2017).
- HEC Travel Grant for the 2<sup>nd</sup> Inter. Conference on Climate Change Colombo, Sri Lanka, 15-16 Feb, 2018.

**Worked as an External Examiner:**

- University of Haripur, University of Peshawar & Sardar Bahadar Khan Women University, Baluchistan

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### **Research Projects Completed:**

#### **As Principal Investigator:**

1. Establishment and Strengthening of Climate Change Center at The University of Agriculture, Peshawar KPK, (Worth Rs. 16.80 M).

#### **As Co-Principal Investigator:**

1. The long-term effects of tillage, nutrients and weed management on sugar beet yield and weed seed bank (Higher Education Commission Islamabad, Rs. 2.2 Million).
2. Conservation and Cultivation of Medicinal Plants at high altitude of Pakistan (ALP/PARC Rs.4.8 M).
3. Pathways to Strengthening Capabilities for Climate Smart Agriculture in Pakistan-(CBA2019-07SY-Khan) Funded by: Asia-Pacific Network for Global Change Research- Japan (Project Award: USD 50,102).
4. Developing Climate Risk Profile of selected districts in KPK Province- Funding agency: FAO Pakistan. (Project Award: Rs. 4.927 Million).

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### **Countries visited for academic activities:**

1. Australia
2. China
3. Sri Lanka
3. Kingdom of Saudi Arabia
4. Turkey
6. Qatar
7. Nepal
8. Philippines

### **Trainings & Conference Organized:**

- Technical Writing & Publishing in Scientific Journals with the collaboration of Chinese Academy of Sciences at UAP, 14 May, 2014.
- National Conference on "Thinking climate change adaptation in water and farming; THINK-ADAPT November 28-30, 2016 at The University of Agriculture Peshawar, Pakistan.
- Consultative "Workshop on climate change impacts on key crops of KPK; to share the findings and to formulate recommendations" at UAP, March 29, 2018.
- 10 trainings on "Climate Change & Adaptation" for the officials of Agric. Extension, Research, Water Management Department & Faculty Members, of KPK, at The (UAP), 4 -17 April, 2018.
- National conference on "Agricultural problems & food security in the changing climate" on 14-17 November, 2018 at the University of Agriculture Peshawar.
- International Conference on "Strategies for Ensuring Food Security in The Changing Climate" on October 23-24, 2019 at the University of Agriculture Peshawar.
- Seminar on "Challenges in Dry Land Agriculture in Light of Climate Change and Recommendations"
- & 2<sup>nd</sup> Consultative Meeting of SLM Network, 11-12 December, 2019. Planning and Development Department Govt. of KPK SLMP-II & CCC-UAP.
- 16<sup>th</sup> National Weed Science Congress of Weed Science Society of Pakistan, 08-10<sup>th</sup>, July, 2021 UAP
- The 5<sup>th</sup> International Agriculture Congress, 5-6 December 2022 in collaboration with Pamukkale University, Anatolian Association of Agricultural Engineers and Yozgat Bozok University, Turkey.
- International conference on "Food security through sustainable agriculture strategies in the current climate change scenario" Department of Plant Protection, 8-10 March, 2023, UAP.
- National Conference on Plant Sciences & Climate Change on August 9-11, 2023 at Shaheed Benazir Bhutto University Sheringal, Upper Dir.
- Workshop on CSA to Mitigate Drought in KP, in Climate Change Centre at the UAP, in collaboration with the Climate, Energy, and Water Research Institute, PARC, Islamabad, June 4-5, 2024.

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### **International Trainings/Conferences/Workshops Attended:**

- Training on "Avoiding plagiarism" Organized by Graduate School, The University of Queensland, Brisbane, Australia, 5 April 2011.

- Training "Research Integrity Training" Organized by Graduate School, The University of Queensland, Brisbane, Australia, 8 April 2011.
- International training course on "Mitigation of Climate Change for Asian Countries" in Beijing, China, 9-29 September, 2014.
- 13th Asian Apicultural Association Conference Organized by King Saud University, Kingdom of Saudi Arabia, April 18-29, 2016.
- The Ecology 17- International Conference on Ecology, Ecosystem and Climate Change organized by Eastern Mediterranean Academic Research Center, Istanbul, Turkey, February, 17-18, 2017.
- 2nd Int. Conference on Climate Change held from 15<sup>th</sup> - 16<sup>th</sup> February 2018 in Colombo, Sri Lanka.
- Int. Forum on Climate Change and Sustainability held on 15th February 2018 in Colombo, Sri Lanka.
- International workshop on sustainable food system under climate change in South Asia, June 26-28, 2018; Organized by Centre for Climate Research and Development, COMSATS University Islamabad.
- Training on Climate Science & Adaptation in the Hindu Kush Himalayan Region-a Transdisciplinary Approach, in The HUC Academy ICIMOD, Kathmandu Nepal from 1-14 July 2018.
- Int. Workshop on Formulation and study of spatial development, climate change & the environment for agricultural transformation" at Manila, Philippines. Organized by APO-Japan, 8-22 Nov., 2019.
- International training on " Disaster Risk & Management" at Akhtar Hamid Khan National Center for Rural Development (AHKNCRD), Islamabad, 14-18 December 2020.
- 9 Week school of Climate Change organized by Oxford Climate Society, UK, from 12<sup>th</sup> October to 7<sup>th</sup> December 2021.
- International Ege Congresses, 02-04, September 2022 , Ege University, Izmir, Turkey
- 6<sup>th</sup> International Congress on Current Developments In Science And Technology 16- 18 September 2022, Malatya, Turkiye.
- Transitioning to Complex Risk Management and Resilient Urban Futures: Harnessing South-South Cooperation and Learning From COVID-19, 23 August-13 September 2022. Organized by UNDRR Global Education and Training Institute, WHO and PAHO.
- Joint ESENIAS and DIAS Scientific Conference and 11<sup>th</sup> ESENIAS Workshop on "Invasive aliens species under conditions of global crisis" 13-15 November 2022 Demre, Antalya Türkiye.
- Int. Workshop on Climate Smart Agriculture for Pakistan, Nov. 30- Dec. 2, 2022; Organized Ministry of Agriculture and Rural Affairs China
- International Congress on Environment, disaster & forest, December 02-03, 2022, Adana, Türkiye.
- 5<sup>th</sup> Int. Agriculture Congress, 5-6 December 2022; Pamukkale University, Türkiye.
- International Training Program on Millets for Global Food Security hosted by African-Asian Rural Development Organization (ARADO), India from 13-16 February 2023.
- 3rd International Conference on Eng. & Applied Natural Sci. January 14-17, 2023: Konya, Turkey. Proceeding Book, [www.iceans.org](http://www.iceans.org).
- I<sup>st</sup> International Congress on Scientific and Innovative Studies, April 18-20, 2023, Konya. Türkiye.
- Conference on Productivity and Green Growth: New Interlocking Paradigms" India, 14-16 June, 2023, Organized by Asian productivity Organization, Japan.
- 5<sup>th</sup> International Black Sea Modern Scientific Research Congress, November 08-10, 2023 Rize, Türkiye.
- Training on "How to Effectively Use Researcher Academy and Elsevier Journal Finder" on 12 December 2023 Organized by Elsevier International.
- AARDO-AHKNCRD Collaborative International Online Training Programme on "Social Safety Nets: Challenges & Opportunities" September 9-12, 2024. AHKNCRD, Islamabad, Pakistan

#### **National Trainings/Conferences/Workshops Attended:**

- Five days workshop on Weed Science organized by Department of Weed Science, AUP-Peshawar (2001).
- Session on Agro-Bio Diversity in the Context of Sustainable Agriculture Development, 26 Dec. 2002 organized by IUCN.

- Inceptions meeting on Agriculture Bio-Diversity Network 23 Sep. 2003 organized by IUCN.
- Ist Int. Weed Sci. Conf. Oct. 23-26, 2003. Organized by Department of Weeds Science AUP-Peshawar.
- 6<sup>th</sup> National Weed Science Conference March 28-30, 2005. Organized by Department of Weeds Science AUP-Peshawar.
- Workshop on Use and Importance of Fertilizer in Pakistan December 15, 2005. Organized by Engro Ltd.
- Seminar on Commercialization of Food Irradiation 27 July 2005, Islamabad. Organized by (PAEC).
- 9<sup>th</sup> National Conference of Plant Scientists 13-5 February 2006. Organized by Pakistan Botanical Society at University of Sindh, Jamshoro.
- Development Course for Manager at Pakistan Institute of Management Lahore, 6-11 November 2006.
- Corporate Training Program on "Documentation in ISO 9001" Organized by National Productivity Organization Islamabad, 19-20 February 2007.
- FCV Grading training organized by Philip Morris International 2012.
- Training workshop on GIS/RIS in Department of Environmental Sciences, University of Peshawar, 9<sup>th</sup> & 10<sup>th</sup> January 2013.
- Training on "Anti-Plagiarism Policy and Procedure" Organized by HEC at The University of Agriculture Peshawar on 25 March 2013.
- Training on "IPC- Food Security Workshop" Organized by FAO at The University of Agriculture Peshawar on 29 November, 2013.
- 3<sup>rd</sup> Bio-safety training workshop for young Scientist at The University of Agriculture Peshawar on 28 January, 2014.
- Training on statistical techniques for crop, animal and social sciences at The University of Agriculture Peshawar on 25 January, 2014.
- Training on "Technical Writing & Publishing in Scientific Journals" By Dr. Edward Robert International Scientist, Chinese Academy of Sciences at The University of Agriculture Peshawar on 14 May, 2014.
- 4<sup>th</sup> International 13<sup>th</sup> National Conference of Botany 27-30 August 2014. Organized by Pakistan Botanical Society at Shaheed Benazir Bhutto University, Sheringal, Dir (U)
- Training course on "Climate Change Adaptation Planning " 28-30 October, 2014 in Islamabad
- Training course on "Urban Environmental Issues" 07 May, 2015. Organized by Urban Policy Unit, P& D Department, Govt. of KPK
- 5<sup>th</sup> International & 12<sup>th</sup> National Conference of Weed Science June 12-14, 2015. Organized by Weeds Science society of Pakistan and at Shaheed Benazir Bhutto University, Sheringal, Dir (U)
- Workshop on Education Sector Budgets Analysis of FATA and five districts of KPK province for the years 2011-2015. Organized by Centre for Governance and Public Accountability Peshawar.
- National workshop on awareness on weed management practices for better yield. Organized by Department of Weed Science University of Agriculture Peshawar, 30-31 December, 2015.
- Workshop on "Quality Assurance via Self-Assessment Process" Organized by Directorate of Quality Assurance, The University of Agriculture Peshawar, 7<sup>th</sup> April, 2016.
- 13<sup>th</sup> National Conference of Weed Science August 19-21, 2016. Organized by Weeds Science Society of Pakistan and at Shaheed Benazir Bhutto University, Sheringal, Dir (U).
- National conference on "Thinking climate change adaptation in water and farming; THINK-ADAPT at The University of Agriculture Peshawar, Nov. 28-30, 2016.
- Workshop on "Intellectual Property Rights": regarding drafting & filing of patent application, organized by PASTIC, at The University of Agriculture Peshawar, 18<sup>th</sup> December, 2016.
- Seminar on "External Quality Assurance & Accreditation" Organized by Directorate of Quality Assurance, The University of Agriculture Peshawar, 03 February, 2016.
- International conference on "Climate Change threats to agriculture and food security THINK-ADAPT" The University of Agriculture Peshawar, 22-24, November, 2017.

- Training on "Climate Change Issues" Climate Advocacy and Coordination for Resilient Action" Organized by Pakistan Red Crescent Society & The German Red Cross on 26-27 April 2018 at Peshawar.
- Workshop on "Data exploration, visualization and analysis, using Statistical Software" on 09-10 January 2018. Organized by Department of Mathematics, Statistics and Computer Science, UAP.
- Certification of recognition for providing admirable services as a member of editorial board of Int. Journal Agricultural and Environmental Research & organizer of the workshop on "Data presentation and interpretation for effective publication" Abdul Wali Khan University Mardan' on 20<sup>th</sup> March, 2018.
- National workshop on "Data presentation and interpretation for effective publication" at Abdul Wali Khan University Mardan' on 20<sup>th</sup> March, 2018.
- National conference on "Climate smart agriculture and crop modeling" The University of Agriculture Peshawar, 18-19 April, 2018.
- National conference on "Agricultural problems & food security in the changing climate" on 14-17 November, 2018 at the University of Agriculture Peshawar.
- International Conference on "Strategies for Ensuring Food Security in The Changing Climate" on October 23-24, 2019 at the University of Agriculture Peshawar.
- Training on "Disaster Risk Reduction Through Climate Change Adaptation" Organized by National Institute of Disaster Management- NDMA Islamabad, 26-27 November, 2019.
- Seminar on "Challenges in Dry Land Agriculture in Light of Climate Change and Recommendations" & 2<sup>nd</sup> Consultative Meeting of SLM Network, 11-12 December, 2019. P&D Department Govt. of KPK.
- Training on "Identification of climate-smart agriculture practices, demonstration and dissemination of Innovative and climate-smart practices" February 03-05, 2020; Organized by FAO.
- 16<sup>th</sup> National Weed Science Conference July 08-10, 2021. Department of Weeds Science UAP Peshawar.
- Conference on "Sustainable farming through the intervention of agricultural mechanization and renewable energy technologies" on June 30 & July 01, 2021 at The University of Agriculture Peshawar.
- Hands-on Training Workshop on Development of Software Tools For AI Based Variable Rate Spraying Technologies, from 2-4 December 2021, organized by PMAS- Arid Agriculture University Rawalpindi.
- Workshop on "Launch of Climate Change Courses and Catalogue" held on 25<sup>th</sup> June 2024 in Islamabad.
- National Seminar on Promoting Agriculture Development and Food Security Through Intellectual Property Organization-Intellectual Property Organization of Pakistan, 29-30 August 2024.

## 87 Publications in National and International Refereed Journals

### Impact Factor Publications

1. F. Zaman, W. A. Khattak, M. Ihtisham, M. Ilyas, A. Ali, A. Ali, **Haroon Khan**, K. A. Khan, D. Ni, H. Zhao, F. S. Chen. 2024. Assessing the health risks of heavy metals and seasonal minerals fluctuations in *Camellia sinensis* cultivars during their growth seasons. **Food and Chemical Toxicology**, V. 187, 114586.
2. Shah IA, **Haroon Khan**, Muhammad Z, Ullah R, Iqbal S, Nafidi H-A, Bourhia M and Salamatullah AM. 2024. Evaluation of climate change impact on plants and hydrology. **Frontiers in Environmental Science**. 12:1328808. doi: 10.3389/fenvs.2024.1328808.
3. Shah, I.A., Muhammad, Z., **Haroon Khan**, et al. Spatiotemporal variation in the vegetation cover of Peshawar Basin in response to climate change. **Environmental Monitoring and Assessment**. 195, 1474 (2023). <https://doi.org/10.1007/s10661-023-12094-9>
4. Khan, I. M. I. Khan, S. Hashim, M. Fawad, A. Jamal, M. F. Seleiman, **Haroon Khan**, B. Gul, Z. Hussain, M. F. Saeed, et al. Managing Weed-Crop Interactions Enhances Chickpea (*Cicer arietinum* L.) Chemical Components. **Plants** 2023, 12, 3073. <https://doi.org/10.3390/plants12173073>
5. A. Misganaw, S. Addisu, G. Alemayhu, N. Kesete, **Haroon Khan**. 2023. Crop Production in Ethiopia Under Changing Climate Scenario: a case of Farta and Yielmana Densa Districts. **International Journal of Climatology**. 1-16. <https://doi.org/10.1002/joc.8175>.
6. Akbay, F., Uslu, Ö.S., **Haroon Khan** and İbrahim Hosaflioglu. 2023. Evaluation of Agronomic Attributes and Herbage Quality of Selected *Trigonella* Species. **Gesunde Pflanzen**. <https://doi.org/10.1007/s10343-023-00876-7>.



7. **Haroon Khan, B., Gul, B. et al.** 2023. Evaluation of various weed control techniques in transplanted onions under agro-climatic conditions of Peshawar-Pakistan. **Gesunde Pflanzen**.<https://doi.org/10.1007/s10343-023-00856-x>
8. Ahmad, W., Zou, Z., Awais, M., Munsif, F. Khan, A., Nepal, J., Ahmad, M., Akbar, S., Ahmad, I., Khan, M.S., Qamar, Z and **Haroon Khan**. 2023. Seed-Primed and Foliar Oxozinc Nanofiber Application Increased Wheat Production and Zn Biofortification in Calcareous-Alkaline Soil. **Agronomy**. 2023, 13, 400.
9. H. Ullah, B. Gul, **Haroon Khan**, K. Rehman, I. Hameed, U. Zeb, S. Roomi, Z. Huma. 2023. Impact of pH on the growth and nutritional role of *Lemna minor* L. (a sustainable alternative for Pakistan's feed sector). **Aquaculture International**. <https://doi.org/10.1007/s10499-023-01063-1>.
10. I. A. Shah, Z. Muhammad, **Haroon Khan**. 2022. Impact of climate change on spatiotemporal variations in the vegetation cover and land cover of District Nowshera. **Journal of Water and Climate Change**. 13 (11), 3867. doi: 10.2166/wcc.2022.229.
11. Fawad, M., Khan, M.A.; Wahid, F., **Haroon Khan**, Gul, B., Khattak, A.M., Jamal, A., Mastinu, A. 2022. Irrigation Scheduling and Weed Management: A Sustainable Approach for Managing Broomrape and other Weeds in Tomato Crop. **Horticulturae**. 8, 676.
12. Ahmad, I., Gul, B., **Haroon Khan**, et al. 2022. Influence of various densities of wild oat and holy thistle on the productivity of wheat (*Triticum aestivum*). **Gesunde Pflanzen**. 74,839-852.
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