

## CURRICULUM VITAE

DR. AMJAD USMAN

Chairman / Associate Professor

Department of Entomology, The University of Agriculture Peshawar-Pakistan

Contact Nos. (Cell): +92 - 333 - 9269031

(Fax): +92 - 91 - 9216520

(Office): +92 - 91 - 9216572~8 Ext. (3198)

Email: [amjadusman@aup.edu.pk](mailto:amjadusman@aup.edu.pk)

University Website: [hppt://www.aup.edu.pk](http://www.aup.edu.pk)



### ACADEMIC RECORD

**PhD. Entomology (2012):** Department of Entomology, The University of Agriculture Peshawar Pakistan

**Master of Science (Hons.) Agriculture (Entomology) (2005):** Department of Entomology, The University of Agriculture Peshawar Pakistan.

**Bachelor of Science (Hons.) Agriculture (Entomology) (2003):** Department of Entomology, The University of Agriculture Peshawar Pakistan.

**Higher Secondary School Certificate (1998):** Higher Secondary School Certificate from Board of Intermediate and Secondary Education, Peshawar, Pakistan. (Pre-Medical Group, 1<sup>st</sup> division).

**Secondary School Certificate (1996):** Secondary School Certificate from Board of Intermediate and Secondary Education, Peshawar, Pakistan. (Science Group, 1<sup>st</sup> division).

### EMPLOYMENT RECORD

Designation	Institution	Period	
		From	To
Chairman	Department of Entomology The University of Agriculture Peshawar	20 <sup>th</sup> , Nov 2024	till 13 <sup>th</sup> Dec, 2027
Associate Professor (BPS-20)		4 <sup>th</sup> March 2022	till date
Assistant Professor (BPS-19)		13 <sup>th</sup> May 2014	3 <sup>rd</sup> March 2022
Lecturer (BPS-18 regular)		15 <sup>th</sup> Aug. 2007	12 <sup>th</sup> May 2014

<b>Lecturer (BPS-18 regular)</b>		28 <sup>th</sup> Feb. 2007	14 <sup>th</sup> Aug. 2007
<b>Research Associate (HEC Funded Project)</b>		5 <sup>th</sup> Jan. 2006	27 <sup>th</sup> Feb. 2007

**ADDITIONAL DUTIES / ADMINSTRATIVE EXPERIENCE**

S.No.	Title	Dates	Duration
1.	<b>Member Board of Studies</b> Department of Entomology, University of Haripur	27 <sup>th</sup> Nov, 2024	till Date
2.	<b>Chairman, Department of Entomology</b> The University of Agriculture, Peshawar	20 <sup>th</sup> Nov, 2024	till date
3.	<b>Associate Editor</b> Sarhad Journal of Agriculture	January 2022- January 2024	2 years
4.	<b>Member Board of Studies</b> Department of Entomology, Abdul Wali Khan Mardan	28-10-2020	till date
5.	<b>Member Board of Studies</b> Department of Weed Science	26-06-2020	till date
6.	<b>Additional Chief Proctor</b>	23 <sup>rd</sup> Dec 2019 – 22 <sup>nd</sup> Oct 2021	1 year and 10 months
7.	<b>Member Senate</b> (Assistant Professor Constituency)	15 <sup>th</sup> Oct.2018- 14 <sup>th</sup> Oct 2021	3 years
8.	<b>Associate Editor</b> Sarhad Journal of Agriculture	1 <sup>st</sup> July 2019 ~ 30 <sup>th</sup> June 2021	2 years
9.	<b>Member, Board of Studies</b> Department of Plant Protection The Uni. of Agric. Peshawar	7 <sup>th</sup> Nov 2017~ 6 <sup>th</sup> Nov 2020.	3 years
10.	<b>Executive Member</b> Agriculture University Teachers Association (AUTA),	2016 -2017	1 year
11.	<b>Associate Editor,</b> Sarhad Journal of Agriculture	27 <sup>th</sup> May 2016 ~ 26 <sup>th</sup> May 2019	3 years
12.	<b>Member Board of Studies,</b> Department of Weed Science The Uni. of Agric. Peshawar	Feb, 2015 ~ Feb, 2017.	3 years
13.	<b>Vice President,</b> Agriculture University Teachers Association (AUTA)	2014-2015.	1 year
14.	<b>Deputy Director (ORICs),</b> The University of Agriculture Peshawar	13 <sup>th</sup> Nov, 2013	till date

15.	<b>AUTF Representative,</b> (Lecturer Constituency), Agricultural University Teachers Foundation ( <b>AUTF</b> ) Session	2012-2013.	1 year
	<b>Executive Member,</b> Agriculture University Teachers Association (AUTA)	2012-2013	1 year
	<b>Staff Proctor</b> The Uni. of Agric. Peshawar	19 <sup>th</sup> Sept 2010~ May, 2015	3 years and 8 months

### **DISTINCTIONS**

- First division throughout academic carrier.
- Awarded Merit Scholarship throughout B.Sc. (Hons) Degree and M.Sc. (Hons.) Degree
- Awarded HEC Indigenous Ph.D Scholarship for PhD Studies.

### **RESEARCH PROJECT**

- PSF/NSLP/KP-UAP(709) Titled “**Optimization of Environmental and Nutritional Standards for Mass Production of Mealworm Meal Under Tropical Environment of Pakistan**” with Total Budget of Rs. 6.18 million for period of 36 months as CO-PI: (Project Completed in 2024).
- Research project No 16720 entitled “**Management of *Parthenium Hysterophorus* By Plant Competition And Insect Herbivory In Khyber Pakhtunkhwa**” funded by HEC, Islamabad , having total cost of Rs. 3392550/- CO-PI: ( 2022-In Progress)

### **PUBLICATIONS**

1. Haq, M.U., A. Sattar, Z. Salihah, A.Farid, **A.Usman** and S.U.K. Khattak. 2006. Effect of different artificial diets on biology of adult green lace wing (*Chrysoperla carnea* Stephs). Songklanakar. J. Sci.Technol. Thailand. 28(1): 1-8.
2. **Usman, A.**, M. Naeem, Z. Salihah, M.U. Haq and M.Q.Saeed. 2006. Effect of different adult diets on *Chrysoperla carnea* Steph. (Chrysopidae, Neuroptera) - A biological control agent. Sarhad. J. Agric.22 (1): 121-124.
3. Yasir, S. Sattar, M.Q. Saeed, A.U. Rehman and **A. Usman**. 2006. Chemical control of *Thrips tabaci* Lind. (Thysanoptera:Thripidae) on garlic in Peshawar. Sarhad. J. Agric. 22(3): 481-483.

4. Ahmed, M., S.S.Alam, **A. Usman**, A.U.Rahman and D.L. Coplin.2006. Host range study and production of Harpin<sub>es</sub> by *Pantoea Stewartii* subsp *Indologenes*, A bacterium closely related to Corn pathogen, *Erwinia Stewartii*. Indus J. Biol. Sci. 3 (2): 762-767.
5. Ahmed, M., S.S.Alam, **A. Usman**, D.R. Majerczak and D.L. Coplin.2006. Exploring the functions of genes co-regulated with *HrpN* gene of the corn Pathogen *Erwinia (Pantoea)Stewartii*. Indus J. Biol. Sci.3 (2): 728-733.
6. Ahmed, M., S.S. Alam. S.Alam, **A. Usman** and D.L. Coplin. 2007. Export of theHR Eliciting Protein, Harpin<sub>ES</sub> of the Maize pathogen *Erwinia Stewartii* in Specific-Specific but is dependent of the growth temperature. Pak. J. Biol. Sci. 10(1):117-121.
7. Syed, I.A.S., I.Ali, Z.Hussain, M.Shah, and **A.Usman**.2007. Studying the performance of Silkworm *Bombyx mori* L. Races fed with different mulberry varieties. Sarhad. J. Agric. 23(4):1079-1083.
8. Alam, S.S., M.Ahmad, S.Alam, **A. Usman**, M.I.Ahmad and Naveedullah. 2007. Variation in garlic varieties for reaction to natural infection of *Puccinia porri* Wint and *Alterneria porri* Clif at Swabi NWFP. Sarhad J. Agric. 23 (1):149-152.
9. Ahmed, N. and **A. Usman**. 2010. Comparative efficacy of some new insecticide against Amaltas leaf sticher *Piesmopoda obliquifasciella* Hamps attacking Kachnar (*Bauhinia variegata* Linn.). Pak. J. Forestry. 60(1): 28-31.
10. **Usman, A.** and I.A. Khan. 2012. Ovipositional response of tomato fruit worm (*Helicoverpa armigera*) (Hubner) to different tomato genotypes under agro-ecological conditions of Khyber Pakhtunkhwa - Pakistan. Sarhad J. Agric. 28(2):277-281.
11. Usman, M., M. Inayatullah, **A. Usman**, K. Sohail and S.F. Shah. 2012. Effect of egg parasitoid, *Trichogramma chilonis*, in combination with *Chrysoperla carnea* and neem seed extract against tomato fruitworm, *Helicoverpa armigera*. Sarhad J. Agric. 28(2):253-257.
12. **Usman, A.**, M. Inayatullah, K. Sohail, S.F. Shah, M. Usman, K. Khan and M.A. Mashwani. 2012. Comparing the efficacy of *Chrysoperla Carnea* (Stephen), neem seed extract and chemical pesticide against tomato fruit worm (*Helicoverpa armigera* Hubner). Sarhad J. Agric. 28(4): 611-615.
13. **Usman, A.** I.A. Khan, M. Inayatullah, A.U.R. Saljoqi and M. Shah. 2013. Appraisal of different tomato genotypes against tomato fruit worm (*Helicoverpa armigera* Hub.) infestation. Pak. J. Zool. 45(1):113-119.
14. Sohail, K., S. Jan, **A. Usman**, S. F. Shah, M. Usman, M. Shah and A. Mehmood. 2015. Evaluation of some botanical and chemical insecticides against the insect pest of okra. J. Entomol. Zool. Studies. 3(2):20-24.

15. Khan, L., M. Shah and **A. Usman**. 2015. Host Preference of Red Pumpkin Beetle (*Aulacophora faveicollis*) Lucas (Chrysomelidae: Coleoptera) among different Cucurbits. J. Entomol. Zool. Studies. 3(2):100-104.
16. **Usman, A.**, I.A.Khan, M.Shah. K. Shohail and F. Siad. 2015. Influence of various biochemical factors on the occurrence of *Helicoverpa armigera* (Hubner) in tomato. J. Entomol. Zool. Studies. 3(3):63-68.
17. Said, F., M. Inayatullah, S. Ahmad, T. Iqbal, R. A. Shah, **A. Usman**, M. Zaman and S. U. Haq. 2015. Foraging behavior of the Himalayan Honeybee, *Apis cerana* (Hymenoptera: Apidae) associated with sunflower (*Helianthus annuus* L.) at Peshawar District of Khyber Pakhtunkhwa. J. Entomol. Zool. Studies. 3(3): 203-207.
18. **Usman, A.**, I.A. Khan and M. Shah. 2015. Evaluation of some selected IPM modules for the management of Tomato fruit worm (*Helicoverpa armigera*) Hub. J. Entomol. Zool. Studies. 3(4): 379-382.
19. Imran, A, A. Khan, Inamullah, H. Zada, F. Ahmad, S. T. Shah, **A. Usman** and Irfanullah. 2015. Yield and yield attributes of rapeseed cultivars as influence by sulfur level under Swat valley conditions. Pure and Appl. Biol.4 (3): 296-301.
20. Shah, I. M. Shah, A. Khan, **A. Usman**. 2015. Response of insect pollinators to different cucumber, *Cucumis sativus* L. (Cucurbitales: Cucurbitaceae) varieties and their impact on yield. J. Entomol. Zool. Studies. 3(5): 374-378.
21. Iqbal, B., M. T. Jan, Inamullah, Imran, A. A. Khan, Z. Muhammad, S. Anwar, S. Khan, S. Baqa and **A. Usman**. 2015. Integrated management of compost type and fertilizer-N in Maize. Pure and A.ppl. Biol. 4 (4): 453-457.
22. Baqa, S., A. Z. Khan, Inamullah, Imran, A. A. Khan, S. Anwar, B. Iqbal, S. Khan and **A. Usman**. 2015. Influence of farm yard manure and phosphorus application on yield and yield components of Wheat. Pure and Appl. Biol. 4(4): 458-464.
23. Khan, M. N., J. Iqbal, **A. Usman**, N. H. Khan and M. Salman. 2015. Screening of different *Nicotiana tabacum* cultivars and efficacy of bifenthrin against major insect pests of FCV tobacco. Glob. Innov. Agric. Soc. Sci., 3(4): 130-135.
24. Fatima, M.Shah, **A. Usman**, K. Sohail, M. Afzaal, B. Shah, M. Adnan, N. Ahmed, K. Junaid, S. R. A.Shah, I. U. Rahman . 2016. Rearing and identification of *Callosobruchus maculatus* (Bruchidae: Coleoptera) in Chickpea. J. Entomol. Zool. Studies. 4(2): 264-266.
25. Shah. M. S., G. Z. Khan, **A. Usman**, M. Shah. 2016. Exploiting nutrition for sex separation in *Culex quinquefasciatus* (Say) species of mosquitoes. J. Entomol. Zool. Studies. 4(2): 267-272.

26. Iqbal, A., **A. Usman**, M. Shah and S. Sartaj Alam. 2017. Assessment of indigenous plant extracts in combination with synthetic insecticide and wood ash for the management of red pumpkin Beetle *Aulacophora foveicollis* (Lucas) (Chrysomelidae: Coleoptera) on snake melon (*Cucumis melo* var. Long melon). Pak. J. Weed Sci. Res. 23(4): 379-386.
27. Iqbal, T., S. Ahmad, M. Shah, **A. Usman**, K. Sohail and K. Shahjeer. 2018. Illustrated Key to the Genera of Family Chalcididae (Hymenoptera: Chalcidoidea) from Various Ecological Zones of Khyber Pakhtunkhwa, Pakistan. Int. J. Agric. Biol., 20 (5): 1049–1054.
28. **Usman, A.**, M. I. Ali, M. Shah, F. Amin and J. Sarwar. 2018. Comparative efficacy of indigenous plant extracts and a synthetic insecticide for the management of tomato fruit borer (*Helicoverpa armigera* Hub.) and their effect on natural enemies in tomato crop. Pure Appl. Biol., 7(3):1014-1020.
29. Haq, I., S. Sattar, B. Ahmed, Q. Zeb and **A. Usman**. 2018. Compatibility of Chemical and Biological Control for the Management of Maize Stem Borer, *Chilo Partellus*, (Swinhoe) (Lepidoptera;Pyralidae). Sarhad J. Agric. 34(4): 896-903.
30. Yousaf, M., M. Shah, **A. Usman**, J. Sarwar, J. Iqbal and R. A. Shah. 2019. Management of chilli thrips *Cirtothrips dorsalis* (Hood) (Thysanoptera: Thripidae) in chilli crop. Pure Appl. Biol. 8(1):271-277.
31. Rasheed, I., S. F. Shah, J. Sarwar, **A. Usman**, M. Shah, M. Usman, F. Amin and N. Nisar. 2019. Screening of different insecticides against *Helicoverpa armigera* (Hubner) (Lepidoptera: Noctuidae) and its effect on yield of tomato crop. Pure Appl. Biol. 8(1): 496-502.
32. Amin, F., S.F. Shah, **A. Usman**, M. Shah, M. A. Khan, J. Sarwar, K. Sohail and M. Usman. 2019. Study on food consumption by blow fly maggots and their percent adult emergence under laboratory conditions. Pure Appl. Biol. 8(1): 790-794.
33. **Usman, A.**, A. Khan, R.A. Shah and T. Iqbal. 2020. Appraisal of Different Tomato Genotypes against *Scirtothrips dorsalis* (Thysanoptera:Thripidae) Infestation with Reference to Morphological Plant Characters. Sarhad J. Agric., 36(2): 375-382.
34. Khan, I., **A. Usman** and R. Khan. 2020. The mortality rate of pupae and adult of fruit fly *Bactrocera cucurbitae* Coquillett (Diptera:Tephritidae) affected by different submerging time and soil types under the laboratory treatment. Sarhad J. Agric., 36(3): 815-822.
35. Sarwar, J., I. A. Khan, F. Amin, H. M. F. Ayub and **A. Usman**. 2020. Response of *Sitotroga cerealella* (Olivier) and *Trichogramma chilonis* (Ishii) towards chilling temperature. Pure Appl. Biol., 9(2): 1504-1509.
36. Bhatti, R.A., A. Zia. F. Naz, **A. Usman**, R. Saleem, G. Sarwar and A.U. Din. 2021. Three new records of Genus *Ptochus* Schoenheer, 1826 (Coleoptera: Curculionidae: Entiminae) from Pakistan. Sarhad J. Agric. 37(1): 325-330.

37. Khan, S., **A. Usman**, N. Ahmad, P. Ali, A. A. Shah and I. Abbas. 2021. State of the Art on Production, Processing and Uses of Meal Worm *Tenebrio Molitor* (Tenebrionidae: Coleoptera). Int. J. Agric. and Biol. Sci.184-210.
38. Sana, K., T.Iqbal, **A.Usman**, Karishma, F. Said, I. U. Khan, K. Shahjeer and G. Z. Khan. 2021. Comparative efficacy of Botanical and a synthetic insecticide against sucking insect pest of Brinjal. Annals of R.S.C.B. 25(6):19381-19389.
39. Gul , H. **A. Usman**, Karishma and S. Zubair. 2021. Insecticidal Evaluation of Aqueous Extract of indigenous plants in comparison with synthetic insecticide for the managment of thrips *Scirtothrips .orsalis* (Thysnaoptera; Thripidae) In Tomato Crop. Pak. J. Weed Sci. Res., 27 (3):431-441.
40. Zaman, M., I.A. Khan, **A. Usman** and A.U.R. Saljoqi. 2022. Species Diversity and damage incidence of Termites (Isoptera) in different agro-ecological zones of Khyber Pakhtunkhwa, Pakistan. Sarhad J. Agric., 38(2): 518-524.
41. Karishma, **A. Usman**, I. Khurshid, T. Iqbal, K. Sana and H. Gul. 2022. Evaluation of different biorational pest management approaches for the management red pumpkin beetle (*Aulacophora foveicollis* Lucas) and fruit fly (*Bactocera cucurbitae*) in cucumber crop and their economic analysis. Pak. J. Weed Sci. Res., 28(2): 127-140.
42. Zia, A.Z., **A. Usman**, R. Hussain, A. Ihsan, N.Ullah, A. A. Shah and M. Usman. 2022. Assessment of Different Modules for the Control of Whitefly Bemisiatabaci, (GENN) and Its Effect on Associated Natural Enemies in Okra Annals of R.S.C.B. 26(1):1227 – 1239.
43. Akbar, R., I. A.Khan, B. Faheem, R. Azad, M. Zaman, R. Altaf, **A. Usman**, M. Fawad, A. Farid, A.U. R. Saljoqi, A. Syed, A. H. Bahkali, A. M. Elgorban, J. A. Shah and A. Qayyum.2022. Biorational Control of *Callosobruchus maculatus* (Coleoptera:Bruchidae) in Stored Grains with Botanical Extracts. Hindawi Bio. Med. Res. Int.. Article ID 3443578, 10 pages. <https://doi.org/10.1155/2022/3443578>.(IF 4.2).
44. Rashid, J., J.Khan, A. Khan, M. Salman, A. Blouch, M. Ashfaque, M. A. Hussain, **A.Usman** and Z. Sikandar.2022. Screening of tomato advance lines cherry and bayberry (NUYT) against Tomato fruit borer, *Helicoverpa armigera* (Hubner) under field Conditions. Biosci Research .19(4):1844-1848.
45. Akbar, R., I. A.Khan, R.A. Alajmi, A. Ali, B. Faheem, **A.Usman**, A. M. Ahmed, M. E.Shazly, A. Farid, J.P. Giesy, M. A. M. A Soud. 2022 Evaluation of Insecticidal Potentials of Five Plant Extracts against the Stored Grain Pest, *Callosobruchus maculatus* (Coleoptera: Bruchidae). Insects 13, 1047.(IF 3.2)
46. Amin, F. and **A. Usman**. 2022. Effects of different diets on life parameters and nutritional profile of mealworms (*Tenebrio molitor* l) under laboratory conditoinis. J. Xi'an Shiyou University. 18(12):1212-1231.

47. Ullah, I., **A. Usman**, R. Akbar, R. Bibi, R. Azad, B. Faheem, S. Akbar, N. Akbar, T. Iqbal, M. Saeed, I. A. Khan, A. Farid, A. U. R. Saljoqi and N. U. Haq. 2023. Integrated management of fruit borer (*Leucinodes orbonalis*) (Pyralidae: Lepidoptera) in spring brinjal crop. J. Xi'an Shiyou University. 19(1):101-118.
48. Khan, Arshad, **A. Usman**, F. Maula, A.A. Khan, F. Ali and H. Ali. 2023. Comparison of mechanical control with insecticidal control against Cucurbit fruit *Bactrocera cucurbitae* (Tephritidae: Diptera) in bitter melon at District Swat, Khyber Pakhtunkhwa. J. Xi'an Shiyou University. 19(1):517-526.
49. Naeem, S., and **A. Usman**. 2023. Evaluation of different plant extracts in brinjal (*Solanum Melongena* L.) in comparison with a synthetic insecticide for the management of *Leucinodes orbonalis*. Journal of Xi'an Shiyou University, Natural Science Edition 19(7): 255-273.
50. Riaz, K., T. Iqbal, S. Khan, **A. Usman**, M. S. Al-Ghamdi, A. Shami, R. A. H. Mohamed, A. A. Almadiy, F. M. A.A. Galil, N. A. Alfuhaid, N. Ahmed and P. Alam. 2023. Growth Optimization and Rearing of Mealworm (*Tenebrio molitor* L.) as a Sustainable Food Source. Foods. 12: 1891. (IF 5.2)
51. Naeem, S. and **A. Usman**. 2023. Appraisal of different commercially available brinjal genotypes against brinjal shoot and fruit, *Leucinodes orbonalis* guenne (Crambidae: Lepidoptera) infestation in Khyber Pakhtunkhwa, Pakistan. Sarhad Journal of Agriculture. 39(4): 957-964.
52. Jehangir, R., J. Khan, A. Blouch, **A. Usman**, M. Ashfaq, Z. Sikandar, A. R. Gurmani. 2023. Biological parameters of tomato fruit borer *Helicoverpa armigera* (Hubner) fed on cherry and bayberry tomato lines under controlled conditions and efficacy of *Trichogramma chilonis* (ishii), (Trichogrammatidae: Hymenoptera). Biosci. Res. 20(4):1105-1111.
53. Shah, N. M., A. Usman, Karishma, I. Khurshid, A. Shakir, P. Ali, K. Khan, J. Anwar, H. Ullah and G. Z. Khan. 2023. Assessment of Superworm (*Zophobas morio* L.) (Coleoptera : Tenebrionidae) on different diets fermented with probiotics. Journal of Xi'an Shiyou University, Natural Science Edition. 19(11): 558-572.
54. Khan, Z.S., **A. Usman**, K. Khan, J. Tanveer and M. Israr. 2024. Effect of stocking density on performance, survival and nutrient composition of super worm *Zophobas morio* (Coleoptera:Tenebrionidae). Tropical Animal Health and Production. 56 : 95.(W IF 1.8) <https://doi.org/10.1007/s11250-024-03935-x>.
55. Ahmed, N., and **A. Usman**. 2024. Taxonomic Studies of the Genus *Megachile* from Coniferous Forests of Khyber Pakhtunkhwa, Pakistan. J. Zool. 56(3): 1023-1030.
56. Akbar. R., S. Afzal, J. Sun, B. Faheem, R. Bibi, R. Azad, A. Farid, H. I. Ahmad, F. S. Ataya, M. A. Khan, I. A. Khan, **A. Usman**, N. A. Alkenani. 2024. Efficacy of Various Plant Extracts and Synergism Against Domestic Species of Rice Weevil *Sitophilous*

*Oryzae* (Curculionidae : Coleoptera). Pol. J. Environ. Studies. 33(4): 1-12. DOI: 10.15244/pjoes/175595. (IF 1.8).

57. Rahman, U.A., I. Khan, **A. Usman**, H. Khan. 2024. Evaluation of Insect Growth Regulators (IGRs) as Biological Pesticides for Control of *Aedes aegypti* Mosquitoes. J Vector Borne Dis 61: 129–135.
58. Sarzamin K. 1 , A.Usman, K. Khan, P. Ali, A.A. Shah, H. Khan and M. Israr. 2024. Quality aspects of oven-dried whole (full-fat) and d-oiled mealworm stored at room temperature. Journal of the Hellenic Veterinary Medical Society, 75(1):6965–6972. <https://doi.org/10.12681/jhvms.33627>.
59. Shah AA, **Usman A**, Khan S, Khan F, Ahmed N et al. 2024 Mealworm (*Tenebrio molitor*) rearing and growth optimization as a sustainable food source using various larval diets under laboratory conditions. *Entomologia Experimentalis et Applicata*. 1–10. <https://doi.org/10.1111/eea.13463> (IF 1.9).
60. Amin, F., **A. Usman**, M. Shah and S. Khan. 2024. Effect of *Tenebrio molitor* Supplementation on Performance and Immunity of Broilers under Heat Stress Conditions. Pakistan Journal of Zoology. 56(6)2445-2450.
61. Fayaz ,W. I.A. Khan and **A. Usman**. 2024. Taxonomy and DNA bar coding of cactus moth *Cactoblastis cactorum* (BERG). Indian Journal of Entomology. DoI. No.10.55446/IJE.2024.2322.
62. Salim, M., M. Zakria, A.R. Saljoqi, S. Sattar, A. Gokce, **A. Usman** and H. Badshah. 2024. Effectiveness of *Parthenium hysterophorus* L. extracts against wheat aphid, *Sitobion avenae* (Hemiptera: Aphididae) under field conditions. Sarhad Journal of Agriculture, 40(4): 1288-1294.1
63. Arif. A., M Salim, H. A Shah, A. U. R Saljoqi, S. Sattar and **A. Usman**. 2024. “Varietal Evaluation and Testing of Synthetic Insecticides Against Peach Aphids (*Myzus Persicae* Sulzer) Under Field Conditions at Ari, Mingora Swat International Journal of Agriculture and Sustainable Development. 6(4): 223-237.
64. Akbar, R., S. Zaman, G. Khan, R. Bibi, N. Rafiq, B. Faheem, A. Ali, S. Ali, M. Zaman, M. Fawad8, **A. Usman**, N. Ahmad, J. Sun. 2025. Comparative Study of Aqueous Plant Extracts and Deltamethrin against Red Flour Beetles, *Tribolium castaneum* (Coleoptera: Tenebrionidae). Pol. J. Environ. Stud. Vol. XX, No. X (XXXX), 1-14. DOI: 10.15244/pjoes/203049.
65. Salim, M., A. Qadar, A.U.R. Saljoqi, S.S. Khan, **A. Usman**, H. Khan, S.A. Khan, B. Ahmad and A. Gokce. 2025. Effects of different seed dressers and varietal response of maize against maize stem borer, *Chilo partellus* (swinhoe) (lepidoptera: pyralidae) infestation. Sarhad Journal of Agriculture, 41(2): 842-851.
66. Ali, Hussain, **A. Usman**, Khalid, Hamed, Mirzakh medov, Mukhammadjon , Muratbay, Muhammad Shakeel. 2025. "Appraisal of artificial diets on the performance and productivity of honey bee (*Apis mellifera*) colonies during winter: appraisal of artificial

diets on the performance and productivity of honey bee (*Apis mellifera*) colonies during winter. *Sociobiology*, 72(4): 11690

### **MEMBERSHIP**

- International Society of Zoological Sciences, China
- Entomological Society of Paksistan

### **Ph.D. STUDENTS SUPERVISOR (Major supervisor)**

<b>S.No.</b>	<b>Student Name</b>	<b>Year</b>	<b>Research Title</b>	<b>Status</b>
1	Fazli Amin	2024	Studies on mealworm, <i>Tenebrio molitor</i> (L.) (Coleoptera: Tenebrionidae), a novel source of protein for poultry feed under laboratory conditions in Pakistan	Degree awarded
2	Naveed Ahmad	2024	Taxonomic study of Sub family Megachilinae (Megachilidae:Hymeoptera) of coniferous forest of Khyber Pakthunkhwa-Pakistan	Degree awarded
3.	Saboor Naeem	2023	Management of Brinjal Borer, <i>Leucinodes Orbonalis</i> G (Crambidae: Lepidoptera) and Role of Pollinators in Summer and Autumn Brinjal Crops at Peshawar, Khyber Pakthunkhwa, Pakistan	Degree awarded
4.	M. Afzaal	2025	Studies on nectar and pollen dynamics and effect of artificial diets supplements on European honey bees ( <i>Apis Mellifera</i> )	Thesis Approved by BOS. Foreign Evaluation in Process

### **Ph.D. STUDENTS SUPERVISOR ( Member Supervisory Committee )**

<b>S.No.</b>	<b>Student Name</b>	<b>Year</b>	<b>Research Title</b>	<b>Status</b>
1.	Rasheed Akbar	2022	Exploiting host preference and botanicals for the management of Bruschild Beetles	Degree Awarded
2.	Noor Muhammad	2022	Studies resistant mechanism of selected canola genotype against mustard aphid through conventional and molecular techniques	Degree Awarded

3.	Maid Zaman	2022	Morphological distribution, mapping and molecular analysis of Isoptera in various Agro- ecological zones of Khyber Pakhtunkhwa	Degree Awarded
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**M.Sc. (HONS) STUDENTS SUPERVISED ( As a Major Supervisor)**

S.No.	Student Name	Year	Research Title	Status
1	Khalid Khan	2009	Comparing the efficiency of <i>Chrysoperla carnea</i> (Stephen), Neem seed extract and Laser (Insecticide) against tomato Fruitworm at Peshawar.	Degree awarded
2	M. Noman.	2014	Screening of different tobacco cultivar and efficacy of bifenthrin against major insect pest of tobacco.	Degree awarded
3	Rahamd Dad	2015	Effect of submerging time and soil types of pupae of fruit fly <i>Bactocera cucurbitae</i> (Tephritidae: Diptera) under lab. Conditions.	Degree awarded
4	Syed Mudassir Shah	2016	Exploring mechanical and nutritional methods of sex separation in <i>Culex quinquefascialus</i> species of mosquito (Diptera: Culicidae)	Degree awarded
5	M. Asim	2016	Effect of different botanicals, synthetic insecticides and ash against red pumpkin beetle on snake cucumber.	Degree awarded
6	Mian Imad Ali	2017	Study on the influences of indigenous plant extract on tomato fruit worm ( <i>Helicoverpa armigera</i> Hub.) and its associated natural enemies	Degree awarded
7	M. Shoaib Aslam	2017	Assessment and Development of Hybrid Vigor of Silkworm <i>Bombyx mori</i>	Degree awarded
8	Arshad Khan	2018	Varietal response of tomato to thrips infestation and its impact on yield	Degree awarded
9	Shahzad Alam	2019	Management of Tomato fruitworm ( <i>Helicoverpa armigera</i> Hub) (Noctuidae : Lepidoptera) on tomato at Peshawar, Khyber Pakhtunkhwa	Degree awarded
10	Shahid ur Rehman	2019	Evaluation of different management practices of red pumpkin beetle ( <i>Aulacophora foveicollis</i> ) (Chrysomelidae; Coleoptera) on snake cucumber.	Degree Awarded
11.	Hina Gul	2020	Insecticidal evaluation of aqueous extract of indigenous plant in comparison with	Degree Awarded

			Synthetic insecticide for the management of Thrips ( <i>Scirtothrips dorsalis</i> ) in tomato crop	
12.	IrfanUllah	2021	Integrated management of fruit borer ( <i>Leucinodes orbonalis</i> guen) (pyralidae: lepidoptera) on spring brinjal crop at district peshawar khyber Pakhtunkhwa	Degree awarded
13.	Aizaz Ali Shah	2021	Evaluation of different larval diets for mass rearing of mealworm ( <i>Tenebrio molitor l.</i> ) (Coleoptera: Tenebrionidae) under lab conditions	Degree awarded
14.	Ahmad Said	2021	Appraisal of different mechanical and chemical control against whitefly <i>Bemisia tabaci</i> , (genn)in okra at district Mardan Khyber Pukhtunkhwa	Degree awarded
15.	Arshad Ali	2021	Comparison of mechanical control with insecticidal control against cucurbit fruit fly, <i>bactrocera cucurbitae</i> , (tephritidae: diptera) in bitter gourd at district Swat, Khyber Pakhtunkhwa	Degree awarded
16.	Jehangir Rashid	2021	Investigations on tomato fruit borer <i>Helicoverpa armigera</i> (hubner) and their egg parasitoid <i>Trichogramma chilonis</i> (ishii), Trichogrammatidae	Degree awarded
17.	Karishma	2021	Evaluation of different biorational pest management approaches for major insect pests of cucumber	Degree awarded
18.	Zarak Khan	2021	Management of maize shoot fly ( <i>Atherigona soccata</i> ) and Maize stem borer <i>Chilo partellus</i> through integrated approach in District Swabi, Khyber Pakhthunkhwa	Degree Awarded
19.	Adnan Ur Rehman	2022	Evaluation of insect growth regulators in control of mosquitoes ( <i>A. aegypti</i> )	Degree Awarded
20.	Muneeba Naeem Shah	2022	Assessment of super worm ( <i>Zophobas morio l.</i> ) (coleoptera: tenebrionidae) on different diets fermented with probiotics	Degree Awarded
21.	Hamza Ahad	2023	Evaluation of some candidate pesticides against whitefly ( <i>bemisia tabaci</i> ) in okra	Degree Awarded
22.	Fawad Khan	2023	Evaluation of some synthetic insecticides for the management of tomato leaf miner ( <i>tuba absoluta meyrick</i> ) (Lepidoptera: Gelechiidae) in tomato crop	Degree Awarded
23.	Waqar Khan	2023	Exploring insect fauna of wild plants in arid zone of district lakki marwat Khyber Pakhtunkhwa	Degree Awarded

24	Muhammad Rizwan	2023	Efficacy of synthetic insecticides against Thrips and Whiteflies on potato crop	Degree Awarded
25.	Muhammad Touseef	2023	Varietal screening of pea against pea leaf miner and its management through botanicals insecticide	Degree Awarded
26.	Hassan Badshah	2023	Bioefficacy of various indigenous plant extracts against <i>Culex quinquefasciatus</i> mosquitoes	Degree Awarded
27.	Muhammad Juanid	2023	Varietal response and management of tobacco aphids through synthetic insecticides	Degree Awarded
28	Muhammad Iqbal	2024	Efficacy of different insecticides against cabbage butterfly and cabbage aphids under field conditions	Degree Awarded
29	Akhtar Jan	2025	Evaluation of different pesticides and <i>Trichogramma chilonis</i> management of rice leaf folder ( <i>Cnaphalocrocis medinalis</i> ) under semifield condition	Degree Awarded
30	Shahana Gul	2025	Comparative Efficacy of Chlorantraniliprole and Thiamethoxam against Fruit Borer <i>Helicoverpa Armigera</i> (Hübner) In Tomato	Degree Awarded
31	Wafaq Ahmad	2025	Effect of various blood sources on feeding and reproductive capabilities of <i>Aedes aegypti</i> for sterile insect Technique	Degree Awarded
32	Ejaz Ahmad	2025	Comparative efficacy of plant extracts and a synthetic insecticide against cabbage butterfly and aphids in cauliflower	Degree Awarded

**M.Sc. (Hons) Students Supervised (Member Supervisory Committee)**

S.No	Student Name	Year	Research Title	Degree status
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1	M. Usman	2010	Effect of egg parasitoid <i>Trichogramma chilonis</i> in combination with <i>Chrysoperla carnea</i> and neem seed extract against Tomato fruit worm.	Degree awarded
2	Jawad Ali Shah	2012.	Effect of different botanical extraction on Tomato fruit worm ( <i>Helicoverpa armigera</i> Hub.)	Degree awarded
3	M. Sulaiman	2013	Parasitism and oviposition of <i>Trichogramma chilonis</i> on <i>Sitotroga cerealella</i> on wheat, maize and Sorghum.	Degree awarded
4	Muhammad Inamullah.	2014.	The Genera of family Encyrtidae (Hymenoptera) in Entomological collection of the University of Agriculture, Peshawar-Pakistan.	Degree awarded
5	Maid Zaman	2015	Testing sand mixtures as physical barrier against subterranean termites.	Degree awarded
6	Laila Khan	2015	Host preference and relative abundance of Red Pumpkin Beetle among different cucurbits.	Degree awarded
7	Komal Habib	2015	Study of insect pest and its associate natural enemies of Brinjal and efficacy of some insecticide against insect pest of brinjal in Peshawar.	Degree awarded
8	Syed Hidayat Hussian.	2014	Resistance of different maize varieties and hybrid against insect pest.	Degree awarded
9	Inam Shah	2015	Studies on varietal response of cucumber of insect pollination.	Degree awarded
10	Ashraf Khan	2015	Study on insect pest complex of pea	Degree awarded
11	Mir Manzar uddin.	2015.	Mosquito fauna of District Upper Dir, Khyber Pakhthunkhwa	Degree awarded
12	Komal Habib	2015	Study of insect pest and its associate natural enemies of Brinjal and efficacy of some insecticide against insect pest of brinjal in	Degree awarded

			Peshawar.	
13	Walija Fayaz.	2015	Resistance in loofah , Luffa Spp., (Cucurbitales : Cucurbitaceae) cultivars against its insect pest in Peshawar.	Degree awarded
14	Bismillah Shah	2015	Biochemical and Physio morphic basis of resistance in maize cultivars against its insect pests.	Degree awarded
15	Unzla Zafar	2016.	Bionimics and Management of Pulse beetle ( <i>Callosbruchus chiensis</i> ) on stored mung Bean.	Degree awarded
16	Shah Zareen (Weed Sci)	2016	Management of water lettue in drainage ditches in Peshawar, Khyber Pakhthunkhwa	Degree awarded
17	Fawad Khan.	2016	Surveillance of dengue Vector (Aedes sp) in dengue epidemic areas and its correlation with dengue case in Swat. (In Progress)	Degree awarded
18	Jawad Sarwar	2017	Effect of low temperature and irradiation on <i>Trichogramma chilonis</i> and its host <i>Sitotroga cerealella</i>	Degree Awarded
19	Waheed Ahmad	2017	Response of four Okra varieties on insect pest and their biological control	Degree Awarded
20	Hafiz M. Faisal Ayub	2017	Population Abandance of Insect pest and their biocontorl agent on different brinjal genotypes at ARI Tarnab Peshawar	Degree Awarded
21	Inzimam Ul Haq (PPr)	2017	Compatipibility of chemical and Biocontrol for the management of Maize Stem Borer ( <i>Chilo partellus</i> Swinhoe), (Lepidoptera ; Pyralidae)	Degree Awarded
22.	Ateeq Ur Rehman	2018	Effect of botanicals extracts on different insect pest and yield of pea ( <i>Pisum sativa</i> )	Degree Awarded

23.	Aftab Ahamd Khan	2018	Role of insect pollinators on yield of bitter ground ( <i>Momordica charantia</i> L.)	Degree Awarded
24.	Qasim Jan Orakzai	2018	Evaluation of different traditional control measures on insect pest of okra varieties	Degree Awarded
25.	Abdur Rauf Bhatti (NARC)	2018	Weevil (Coleoptera:Curculionidae) Fauna of Himalayan Foothill of Pakistan	Degree Awarded
26.	Azaz Shakir	2018	Population abundance of fruit flies and its associated natural enemies on five peach cultivars in Swat valley	Degree Awarded
27	Saeeda	2018	Effect of pollinator on yield of loofa genotypes at Peshawar	Degree Awarded
28	Abdul Qayyum	2018	Improving efficacy and cost effectiveness of male annihilation technique for fruit fly management	Degree Awarded
29.	Muhammad Zakaria	2018	Studies on the biological attributes and parasitic potential of <i>Trichogramma chilonis</i> reared on <i>Sitotroga cerealella</i> and <i>Corcyra cephalonica</i>	Degree Awarded
30.	M. Junaid	2017		Degree Awarded
31.	Shazia Rehman	2018	To find out the terms responsible for resistance in Okra against <i>Aphis gossypi</i> (Clover)	Degree Awarded
32.	Haneef Tariq	2019	Efficacy of different plant extracts in comparison with Spinosad, a New chemistry Insecticide against Tomato fruit worm ( <i>Helicoverpa armigera</i> Hub)	Degree Awarded
33.	Majid Ali	2019	Taxonomic study of short horned grasshopper (Orthoptera : Acrididae) of District Mardan, Khyber Pakthunkhwa, Pakistan	Degree Awarded

34.	Yaqoob Khan	2019	Integration of Chemicals and <i>Trichogramma Chilonis</i> against <i>Pieris Brassicae</i> in cauliflower	Degree Awarded
35	M. Tausif Ahmad	2019	Effect of irradiation on growth and development of pulse beetle	Degree Awarded
36	M. Asim	2020	Management of Citrus psylla <i>Diaphonina Kawayama</i> (Homoptera: Psyllidae) at Peshawar	Degree Awarded
37.	Ijaz Ali Khan	2020	Population trend of phytophagous mites and their associated predators on different peach varieties of Dist SWAT	Degree Awarded
38.	Ali Shan	2020	Relative Abundance of fruit fly species and their infestation in guava and bitter guard at Dargai, District Malakand	Degree Awarded
39.	Hamza Iftikhar	2021	Comparative foraging behavior of Honey Bee Specices <i>Cerana</i> and <i>Mellifera</i> .	Degree Awarded
40.	Rab Nawaz (P.pl)	2021	Effect of major tuber borne diseases on commercially grown potato cultivars in Khyber Pakhthunkhwa and their management through positive and negative selection.	Degree Awarded
41	Riaz Hussain	2021	Insect pest of Green pea ( <i>Pisum sativum</i> ) and its management with botanicals extracts at Malam Jabba District Swat.	Degree Awarded
42.	Yasin Akbar	2021	Impact of pollinators on soyabean yield and their relative abundance under insecticide treated and untreated field at Peshawar	Degree Awarded
43.	Obaidullah (PPr)	2021	Management of onion thrips (Thrips tabaci) Through synthetic insecticide and different botanicals extracts in onion crop	Degree awarded
44.	Muhammad Yasin (Ppr)	2021	Demographic study of <i>Drosica</i> Species fed on different hosts under laboratory condition in Skardu, Gilgit Baltistan.	Degree Awarded
45.	Sumayya Amin (ppr)	2021	Pesticide Residue Analysis of three different pesticide used against <i>Helicoverpa armigera</i> in tomato crop	Degree Awarded

46.	Ali Muhammad (Ppl)	2021	Management of Bacterial wilt of tomato using powder preparation of <i>Peganum hamralla</i>	Degree Awarded
47.	Ali Qadar (Ppr)	2021	Effect of Different seed dressers and varietal response of maize against maize stem borer infestation	Degree Awarded
48.	Muhammad Tayab (PPr)	2021	Response of different wheat cultivars towards the population of wheat aphids and its associated natural enemies.	Degree Awarded
49.	Kashif Ahmad (ppl)	2022	Evaluating powder preparation of <i>Dodonaea viscosa</i> as potential control measure against Bacterial wilt of tomato	Degree Awarded
50.	Sajida Nawaz (ppr)	2022	Varietal response and efficacy of different botanicals against aphids in okra crop.	Degree Awarded
51	Shabeer Ahmad (PPr)	2022	Efficacy of different traps for management of fruit fly <i>Bactocera cucurbitae</i> in Bottle gourd in two Districts of Khyber Pakthunkhwa	Degree Awarded
52	Asad Ullah (PPI)	2022	Incidence of Entomopathogenic nematode in District Swabi and their role in controlling Root Knot Nematode in tomato	Degree Awarded
53.	Kanwal Riaz	2022	Assessment of different growth stages of mealworm ( <i>Tenebrio molitor l.</i> ) (Coleoptera: Tenebrionidae) with different supplements for mass rearing under lab condition	Degree Awarded
54	Ali Waqas (PPI)	2022	Management of Bacterial wilt for tomato using spent mashroom	Degree Awarded
55.	Sania Ejaz (PPI)	2022	Management of bacterial wilt of tomato using powder preparation of <i>Eucalyptus camaldulensis</i> in soil	Degree Awarded
56	Inzimam ul Haq (Ppr)	2023	Effect of population densities and diets on biological parameters of wheat weevils and its management under lab conditions	Degree awarded
57.	Shabeer Ahamd	2022	Efficacy of different traps for the management of Cucurbit fruit fly in Bottle	Degree Awarded

	(Ppr)		gourd in two districts of Khyber Pukhthunkhwa Pakistan	
58.	Sajida Nawaz (ppr)	2022	Varietal response and efficacy of different botanicals against aphids in okra crop.	Degree Awarded
59.	Tauseef Ahmad	2023	Evaluation of different food baits for the attraction of fruit fly <i>Bactrocera</i> species (Diptera: Tephritidae) in Guava Orchard	Degree Awarded
60.	Asadullah (Ppl)	2023	Incidence of Entomopathogenic nematodes in district Swabi and their role in controlling Root-Knot nematode in tomato	Degree Awarded
61.	Samiullah	2023	Impact of thermal shock on survival and biology of <i>Aedes</i> Mosquito	Degree Awarded
62.	Ubaidullah	2023	Evaluation of china clay in comparison with botanical and synthetic insecticide against fruit fly in tomato at District Swat	Degree Awarded
63.	Sharif Ahmad (ppr)	2023	Host preference of fruit fly species and their associated parasitoids potential in fruits and vegetable	Degree Awarded
64.	Sumbal Nasir (ppr)	2023	Efficacy of different botanical against pulse beetle <i>Callosobroca maculatus</i> (Coleoptera : Bruchidae) under laboratory conditions	Degree awarded
65.	M. Abbas (Ppl)	2024	Management of Bacterial wilt of tomato using medicinal plant powder combination	Degree Awarded
66.	Kashif Murad (Ppr)	2024	Effect of indigenous plant extract on peach fruit fly <i>Bactocera zonata</i> under lab. conditions	Degree Awarded
67.	Adnan Yaqoob (Ppl)	2024	Organic soil amendments with powder preparations of Lemon scented gum impact on the severity of bacterial wilt in tomato	Degree Awarded
68	Abdur Rahman (Ppr)	2024	Effect of Different diets on the biology of tomato fruit worm under Lab. conditions	Degree Awarded
69	Muhammd Anees (Ppr)	2024	Screening of different onion varieties against onion thrips and their management in District Charssada	Degree Awarded

70	Muhammad Salman Khan (IBGE)	2025	Induction of regeneration process in brassica using agro bacterium mediated translocation of developmental regulator protein	Degree Awarded
2023	Spring	Ent 613 Ent 711	Scientific Writing and Presentation Insect Nutrition	B. Sc. (Hons) 8 <sup>th</sup> Semester Ph.D.

### **PRESENTATIONS IN THE NATIONAL AND INTERNATIONAL CONFERENCES**

1. Huma., Z., A.U.R. Saljoqi, F. Ali, F. Khan and **A. Usman**. 2018 Virulence of Entomopathogenic nematodes to *Heterotermes Indicola* (Isoptera: Rhinotermitidae) in the Laboratory. 38<sup>th</sup> Pakistan Congress of Zoology. Feb 27 – March 1, 2018, Lahore, Pakistan.
2. **Amjad Usman** and Imtiaz Ali Khan. 2018. Population fluctuation with reference to different developmental stages of tomato fruit worm (*Helicoverpa armigera* and their relationship with environment. 1<sup>st</sup> International conference on CLIMATE CHANGE IMPACTS ON AGRICULTURE AND FOOD SUPPLY. April 24 – 26, 2018, at University of Swabi.

### **CONFERENCES/TRAININGS AND WORKSHOPS ATTENDED/ORGANIZED**

1. Attended “**Training of Presiding Officers**” held on 11<sup>th</sup> December 2007 at Peshawar.
2. Participated in “**Work Shop for Public Sector Professionals, Teaching Staff of Universities and Students of IPM Research and Development**” at Peshawar held on 23<sup>rd</sup> - 25<sup>th</sup> May 2008. Organized by National IPM Program, NARC Islamabad.
3. Attended conference on “**Response to Challenges of Globalization in Agriculture**” at Bara Gali, Abbottabad from 2<sup>nd</sup> to 7<sup>th</sup> July 2008. Organized by Agricultural University Teachers Association (AUTA).
4. Attended 25<sup>th</sup> Training Course on the “**Use of Nuclear and other Technique in Food and Agricultural Research**” Nov. 3-14, 2008 at NIFA Peshawar.
5. Attended national work shop on “**Recent Trend in Agriculture**” held on 2-3<sup>rd</sup> February, 2010 at KPK Agricultural University Peshawar.
6. Participated in training on “**Project Management**” held on 2-3<sup>rd</sup> April, 2010 at KPK Agricultural University Peshawar.

7. Participated in international symposium on “**Institutional Linkages for Agriculture Development in Pakistan**” held on 20-21 December, 2010 at KPK Agricultural University Peshawar.
8. Participated in the cascading of AIT based training program “**Ensuring Training Effectiveness**” held on 4-6<sup>th</sup> July, 2012 at KPK Agricultural University Peshawar.
9. Attended Training “ **Data Analysis Techniques for crop, animal and Social Sciences**” held on February 6, 2014. Organized by AUTA.
10. Attended National Conference on “**Innovative Technologies and Sustainable Development in Agriculture**” held on 19-22<sup>nd</sup> August 2014 at Baragali. Organized by The University of Agriculture Peshawar.
11. Attended Workshop as Resource Person on “**Integrated Pest Management of Forest Insect Pest**” held on 25-26 March 2015 at Pakistan Forest Institute, Peshawar. Pakistan.
12. Attended Training workshop on “**Preparation of District Adaption plan of action**” held on 28<sup>th</sup> to 30<sup>th</sup> October, 2014 Islamabad. Pakistan.
12. Attended workshop on “**Developing and Assessing Proposals**” organized by Higher Education Commission, Education Tertiary Support program held on 22-23<sup>rd</sup> May 2015 at Islamabad, Pakistan.
13. Participated in 3<sup>rd</sup> International Conference on **Global Environmental Changes** Organized by Department of Environmental Sciences and Engineering, Government College University Faisalabad on 21<sup>st</sup> and 22<sup>nd</sup> March 2016.
14. Attended “**Project Formulation Workshop**” held at The University of Agriculture Peshawar Pakistan on 27<sup>th</sup> and 28<sup>th</sup> April 2016. Organized by Pakistan Science Foundation.
15. Participated in Ag MIP, **Mid Term Workshop Phase II on Assessing Climate vulnerability and Projecting Crop Productivity using Integrated Crop and Economic Modeling Technique**, held on 20<sup>th</sup> and 21<sup>st</sup> December 2016.
14. Attended National Training on “**Non Timber Forest Produce**” held on 3<sup>rd</sup> – 6<sup>th</sup> October, 2017 at Pakistan Forest Institute Peshawar.
15. Attended conference on “**Climate Change Impacts on Agriculture and Food Supply**” held on 24<sup>th</sup> -26<sup>th</sup> 2018, Organized by Department of Agriculture, at University of Swabi.
16. Attended Two days training of Presiding Officers and Senior Presiding officer of General Election 2018 organized by Election Commission of Pakistan at Peshawar.
17. Attended “**1<sup>st</sup> Training Workshop for Departmental Focal Person on Self Assessment Report Writing and Criteria of Agriculture Degree Programs**” organized by NAEAC at HEC Islamabad on 10<sup>th</sup> Feb. 2020.

18. Organized and certificate of appreciate for arranging two days national conference on **Sustainable Farming Through Intervention Of Agricultural Mechanization And Renewable Energy Technologies**” held on 30<sup>th</sup> June and 1<sup>st</sup> July 2021, at The University of Agriculture Peshawar.
19. Attended **“16<sup>th</sup> National weed Science Congress of Weed Science Society of Pakistan”** held on 8<sup>th</sup>-10<sup>th</sup> July, 2021 at Department of Weed Science and Botany, The University of Agriculture Peshawar.
20. Attended Seminar on **“Role of Nitric Oxide in the Biology of Eco Friendly Insects and Nematodes”** held on 30<sup>th</sup> November 2021 at Department of Entomology, Abdul Wali Khan University Mardan,
21. Organized international conference on **“Food Security through Sustainable Plant Protection Strategies”** held on 16<sup>th</sup> -20<sup>th</sup> January, 2022 at The University of Agriculture Peshawar.
22. Attended **“Three day’s hands-on training workshop on meal/super-worm production as poultry feed for employment of rural women in flood affected areas of Khyber Pakhthunkhwa”** held on 30<sup>th</sup> January -1<sup>st</sup> February 2023 at The University of Agriculture Peshawar.
23. Attended **“International conference on sustainable Agriculture and food security”** held on 27<sup>th</sup> -31<sup>st</sup> August 2023 organized Agriculture University Teachers association, The University of Agriculture Peshawar.
24. Attended **“Data analysis tools in social, agriculture and health Sciences”** held on 28<sup>th</sup> -31<sup>st</sup> August 2023 at Baragali Summer Campus, UOP organized by Department of Maths, Stat and Computer Science and AUTA The University of Agriculture Peshawar.
24. Attended **“Training workshop for NAEAC Program Evaluators”** held on 2<sup>nd</sup> November 2023 organized by National Agriculture Education and Accreditation Council, HEC Islamabad.
25. Attended one day workshop on **“Popularization of eco friendly insect pest control technologies”** held on May 9, 2024 at Nuclear Institute for Food and Agriculture Peshawar.
26. Participated in 8<sup>th</sup> international conference on **“Sustaining livelihoods: Climate Smart Agriculture for Food Security”** held on 3<sup>rd</sup> -4<sup>th</sup> July 2024 at University of Poonch Rawalakot, Azad Kashmir.
27. Attended 2<sup>nd</sup> International Conference on **“Climate change impacts on agriculture and Food Security”** April 22-24, 2025 at University of Swabi.

