

## CURRICULUM VITAE

### Zahid Mahmood Sarwar (PhD Entomology)

Designation: Associate Professor (Regular: BPS-20)  
Department of Entomology, Bahauddin Zakariya University Multan, Pakistan.  
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### ACADEMICS

#### 1. Key qualification

Degree	Institution	Subject	CGPA	Division
PhD Entomology	University of Agriculture, Faisalabad. PAK	Entomology	3.70	IST
M.Sc. Hons.	University of Agriculture, Faisalabad. PAK	Entomology	3.53	IST
B.Sc. (Hons.) Agri. Entomology	University of Azad Jammu and Kashmir. PAK	Entomology	3.40	IST

2. **Experience** viz. Teaching, Research and Administration: **8 years**

3. **Research Areas:** **Arthropod biodiversity, Acarology, Insect taxonomy, Integrated Pest Management, Biological control, Insect Ecology and behavior.**

4. **Research papers published:** National + International = Total **37**

Impact factor Publication: 25 & HEC recognized publications: 12

5. Books published/ booklets: (Numbers): **01**

6. Significant articles published: Number. **15**

7. M.Sc./Ph.D. Thesis Research supervised: **18/ 02**

8. M.Sc./MPhil Research Thesis as committee members: **4**

#### 9. Service Record.

- Associate Professor (Regular) BPS-20: (19-03-2022 to date)
- Assistant Professor (Regular): (14-12-2016 to 18-03-2022)
- Assistant professor (Contract basis: (13-03-2015 to 12-03-2016)

#### 10. Member of Professional Societies

- Life Time Membership of Pakistan Agricultural Scientists Forum (PAS-Forum)
- Life Time Member of Zoological Society of Pakistan (ZSP)
- Life membership of Pakistan Entomologist

#### 11. Honors and Distinctions:

- a) Honorarium from BZU Multan Pakistan:2
- b) Better Incentive Award:2
- c) Examiner of Universities and member board of studies: 2
- d) Superintendent of Hamza Hall BZU
- e) Incharge of Insect Museum
- f) Member of the Synopsis Review Committee

12. International Research Trainings : 04

13. International Conferences/ oral presentation abroad: 28

#### 14. **Projects: 06** (Outreach Research Grants)

- Title: Taxonomic Studies of Family Noctuidae From Four Districts of Southern Punjab, Pakistan (HEC; Pakistan)
- Title: Taxonomic Studies of Subfamily Hadeninae From District Multan, Punjab, Pakistan (BZU Multan Pakistan)
- Title: Systematic Studies of Stored Grains Mites From District Multan. (BZU Multan Pakistan)
- Title: Taxonomy and Predatory Efficacy of Stored Grains Mites Against Cotton Insect Pests (BZU Multan Pakistan)
- Title: Systematic Study of Two Subfamilies Heliiothinae & Noctuinae (Noctuidae: Lepidoptera) From District Multan, Punjab, Pakistan. (BZU Multan Pakistan)
- Title: Characterization of cotton lepidopteron and their bio rational management using nanotechnology: an ecofriendly and plant growth promoting tactic (BZU Multan Pakistan)

#### 15. **Significant Research Achievements:**

- Integrated pest management in crops, fruits and vegetables.
- Description of new records of Family Noctuidae.
- Laboratory studies of predatory mites (Acari).
- Hypercapnia in modified atmospheres on store grain Insect Pests.
- Use of Nanoparticles along with botanicals aqueous extracts against pest species
- Assessment of environmental and soil edaphic factors on soil arthropod population.

#### 16. **Extracurricular Activities:**

- Reviewer of local & foreign journals.
- Post Graduate Synopsis scrutiny member (Faculty of Agriculture), BZU.
- Reviewer of HEC, PARB, PSF for national research projects of Pakistan.
- Reviewer for International research proposals of foreign countries.
- External examiner for thesis evaluation of PhD/ M.Sc. thesis.

#### 17. **Research Publications [HEC Recognized]**

1. Sarwar, Z. M\*. A. Tamkeen., M. R. Khan., Z. Hussain., M. S. Asghar and M. A. Badar. 2023. Spatiotemporal Behavior and New Distributional Record of Subfamily Hemiacidinae (Acrididae: Orthoptera) from Azad Jammu and Kashmir, Pakistan. *Journal of Animal & Plant Sciences*, 33(3): 675-683. **IF 0.61**
2. Abubakar, M., A. Umer., S. A. Shad., **Z. M. Sarwar\*** and M. Kamran. 2023. Negative Impact of Unstable Spiromesifen Resistance on Fitness of *Tetranychus urticae* (Acari: Tetranychidae) Neotropical Entomology. <https://doi.org/10.1007/s13744-023-01050-4> **IF. 1.65**
3. Rafique, A, **Z.M. Sarwar1\***, N. Ahmad, A. Shami, R. A. E. H. Mohamed, F. M. A. A. Galil, P. Alam. 2022. Biodiversity and Taxonomic Study of Order Odonata from District Multan, Punjab, Pakistan. *Annals of Forest Research*. 65(1): 1046-1058. **IF 1.56**

4. Saghir. M, **Z.M. Sarwar**<sup>1\*</sup>, N.Ahmad, A. Shami, R. A. E. H. Mohamed, F. M. A. A. Galil, P. Alam. 2022. Distributional Diversity of Fruit Fly (Diptera: Tephritidae) From Fruits Orchard of District Multan, Punjab, Pakistan. *Annals of Forest Research*. 65(1): 1074-1085. **IF 1.56**
5. Asghar. M.S, **Z. M. Sarwar**<sup>\*</sup>, A. A. Almadiy, A Shami, R. A. H. Mohamed, N. Ahmed, M. S. Waghulade, P Alam and F. M. A. A Galil. 2022. Toxicological Effects of Silver and Zinc Oxide Nanoparticles on the Biological and Life Table Parameters of *Helicoverpa armigera* (Noctuidae: Lepidoptera) *Agriculture*, 12, 1744 **IF. 3.49**
6. Hussain. Z, **Z. M. Sarwar**, A. Akbar, S. K. Alhag, N. Ahmed, P. Alam , A. A. Almadiy, F. Zouidi and N. B. Jawalkar. 2022. Spatiotemporal Distribution Patterns of Pest Species (Lepidoptera: Noctuidae) Affected by Meteorological Factors in an Agroecosystem. *Agriculture*, 12, 2003 **IF. 3.49**
7. Malik. A.I, **Z. M. Sarwar**<sup>\*</sup> and M. Binyameen. 2022. New Distributional Record of *Leucania Palaestinae* (Lepidoptera: Noctuidae: Hadeninae): From Punjab, Pakistan. *Journal of Animal & Plant Sciences*, 32(5): 1486-1490. **IF 0.61**
8. Mohsan. M, **Z. M. Sarwar**<sup>\*</sup>, Z. Hussain, M. S. Asghar, M. A. Badar and M. R. Khan. 2022. Modified Atmosphere as an Alternative Measure for Controlling of *Sitophilus oryzae* Reared on Different Stored Grains. *International Journal of Agriculture and Biology*. 27:77–82.
9. S.I.A. Shah, R. Saeed, W. Jaleel, **Z.M. Sarwar**, R. Azad, R. Akbar, M.T. Jan, H.A. Ghramh, B.M. AL-Shehri, Z. Ahmad, K.A. Khan, S. Hussain. 2022. Ovipositional response of *Antilochus coqueberti* and *Dysdercus koenigii* in different media under control condition, *Journal of King Saud University Science* doi: <https://doi.org/10.1016/j.jksus.2022.102252> **IF. 3.97**.
10. Shah. S. I. Ali, R. Saeed, W. Jaleel, **Z. M. Sarwar**, R. Azad, R. Akbar, M. T. Jan, H. A. Ghramh, B. M. A. Shehri, Z. Ahmad, K. A. Khan, S. Hussain. 2022. Ovipositional response of *Antilochus coquebertii* and *Dysdercus koenigii* in different media under controlled conditions. *Journal of King Saud University – Science*. 34: 102252. **IF 3.97**
11. Khan. B.S, R. Ahmad, M. Farooq, A. Qayyoom, A. Ghaffar and **Z. M. Sarwar**. 2022. Population Dynamics of Predatory Mites on Chilies and their Efficacy against Whitefly (Aleyrodidae) Under Laboratory Conditions. *Sindh University Research Journal - Science Series*. Vol. 54; 1
12. Afsar. F, M. R. Khan, **Z. M. Sarwar**, A. Zia, Q. Ullah, M. Qasim, N. Ahmed, S. Aslam, M. A. Rafi, M. K. Sheikh, A. Samei. 2022. Some Records of Ant (Hymenoptera: Formicidae) from District Poonch, Azad Jammu and Kashmir, Pakistan. *University of Sindh Journal of Animal Sciences*. 6(4); 13-17.
13. **Zahid Mahmood Sarwar**<sup>\*</sup>, M Sajjad, M Farhan, M N Hassan, M F Shahzad, M Binyameen, I Ali, J Rahim, M Hashem, S Alamri and H Rehman. 2021. Taxonomy and distribution of agriculturally important plusiinae (Lepidoptera: Noctuidae) from southern Punjab, Pakistan. *Saudi Journal of Biological Sciences*. 28:5720-5728. **IF. 4.25**

- 14. Zahid Mahmood Sarwar\***, N. Fatima, and M. Sajjad. 2021. Mortality effects of hypercapnia in modified atmospheres on larval and adult stages of red flour beetle *Tribolium castaneum* (Herbst). International Journal of Tropical Insect Science. 41: 587-592. **IF 1.17**
- 15. Zahid Mahmood Sarwar\***, Ayub Iqbal Malik, Maryam Suhail, Qamar Saeed, Muhammad Umair Sial, Muhammad Nadir Naqqash, Waqar Jaleel. 2021. Genus Spodoptera (Hadeninae: Noctuidae: Lepidoptera); One New Species from Southern Punjab, Pakistan. Pakistan Journal of Zoology. 53(5) 1981-1983 **IF. 0.68**
- 16. Binyameen. M, A. Hamid, I. Afzal, M. Sajjad, M. Azeem, S. M. Zaka, Z. M. Sarwar, S. A. Shad, T. C. Baker and F. Schlyter. 2021. Role of fruit volatiles of different guava varieties in attraction and oviposition behaviors of peach fruit fly, Bactrocera zonata Saunders. Arthropod-Plant Interactions. 15: 95-106. IF.1.98.**
- 17. Ch. M S Hanif, H MAatif, M Z Mansha, Z M Sarwar, K Ikram, T Abbas, A Rehim, M Ashir and M Ismail. 2021. Interactive impact of diatomaceous earth and bio nicotine pesticide against mortality and emergence of stored grains insect pests. Agrociencia. 55(6) 60-71. IF. 0.39**
- 18. H. A. Anwaar, M. Z. Mansha, M. Z. Ahmed, M. Abid, M. Sajid, Z. M. Sarwar, Ummad ud din Umar, M. M. Alam, R. Perveen, S. Chohan and M. S Shafique. 2021. Potential of fungal endophytes to antagonise Puccinia striiformis causing wheat yellow rust. The Journal of Animal & Plant Sciences, 31(3): 894-899. IF. 0.61.**
- 19. M. Sajjad M. Binyameen, Z. M. Sarwar. F. Saeed, I Afzal, M S Ajmal and A sajjad. 2021. Evaluation of some insecticides as bait against termite (Microtermes mycophagus). Journal of Phytobiology. 2 (1) 11-17.**
- 20. Sajjad. M, Z.M. Sarwar\***, S. I. Hussain, S. M. Zaka, Q. Saeed, I. Bodlah, K. Naveed, T. Hussain, M.N. Aslam, W. A. Panhwar, H. A. Anwaar, K. A. Khan. 2020. First record and taxonomic description of the genus Thysanoplusia (Fabricius) (Lepidoptera: Noctuidae: Plusiinae) from Pakistan. Saudi Journal of Biological Sciences. 27:1375-1379. **IF. 4.25**
- 21. Sajjad. M, Z. M. Sarwar\***, M. Binyamin, M. Qasim and M. H. Bashir, 2020. A new species of genus Agrotis Ochsenheimer (Lepidoptera: Noctuidae) from Pakistan. Journal of Animal and Plant Sciences. 30 (3):685-692. **IF 0.61**
- 22. Sarwar. Z.M\***, A. I. Malik, A. Hayat and A. Zeshan. 2020. A New Species of the Genus Hadeninae (Hadeninae: Noctuidae: Lepidoptera) From Southern Punjab, Pakistan. International Journal of Agriculture and Biology. 23:471-474
- 23. Jaleel. W, S. Saeed, M. N Naqqash, M. U Sial, M Ali, S. M Zaka, Z. M Sarwar, M. Ishtiaq, M. A Qayyum, Q. Ul Aine, A. Anwar, M. Sarmad, R. Azad, M. Latif, F. Ahmed, W. Islam, K. A Khan and H.A Ghramh, 2020. Effects of temperature on baseline susceptibility and stability of insecticide resistance against Plutella xylostella (Lepidoptera: Plutellidae) in the absence of selection pressure. Saudi Journal of Biological Sciences. 27: 1-5. IF. 4.25**
- 24. Anwar, H.A, R. Perveen, M. Z. Mansha, M. Abid, Z. M. Sarwar, H. M. Aatif, U. Umar, M. Sajid, H. M.U. Aslam, M. M. Alam, M. Rizwan, R. M. Ikram, S. M. S. Alghanem, A. Rashid, and K. A. Khan. 2020. Assessment of grain yield indices in**

- response to drought stress in wheat (*Triticum aestivum* L.) Saudi Journal of Biological Sciences. 27:1818-1823. **IF. 4.25**
- 25.Ullah.N.U, M. Ramzan, S. Saeed, N. Iqbal, U.D. Umar, **Z.M. Sarwar**, M. Ali, S. Saba, A. D. Abid, K. A. Khan, and H. A. Ghramh.2020. Toxicity of four different insecticides against *Trilocho varians* (Bombycidae: Lepidoptera) Saudi Journal of Biological Sciences. 32:1853-1855. **IF. 4.25**
- 26.Nazar. M.Z, A.Umer, **Z. M. Sarwar**, F. U. Faiz, and S. Hussain.2020. Haemolymph Assay and Morphological Changes of Silkworm, *Bombyx mori* L. (Bombycidae: Lepidoptera) Infected with *Bacillus thuringiensis* var.sotto. Pakistan Journal of Agricultural Research.33 (2): 212-216.
- 27.Nawaz. S, M. Razaq, **Z.M Sarwar\***, M. Sajjad\*, S.A Ubaid, M. A. Zulfiqar and U. Haider, 2019. Determination of Economic Threshold Level (ETL) of Jassid, *Amrasca bigutulla bigutulla* (Cicadellidae:Homoptera) Pakistan Journal of Agricultural Research; 32(1): 28-32.
- 28.Latif. A., S. A. Malik., S. Saeed., S. M. Zaka., **Z.M. Sarwar.**, M. Ali., M. F. Azhar., M. Javaid., M. Ishtiaq., U. N. Ullah., M. Naoreen., K. A. Khan., H. A. Ghramh and M.A. Shahzad, 2019. Pollination biology of *Albizia lebbbeck* (L.) Benth. (Fabaceae: Mimosoideae) with reference to insect floral visitors. Saudi Journal of Biological Sciences. 26: 1548–1552. **IF 4.25.**
- 29.Saeed.S., W. Jaleel., M.N. Naqqash., Q. Saeed., S.M. Zaka., **Z. M. Sarwar.**, M. Ishtiaq., M. A. Qayyum, M.U. Sial., Q.Aine., M. Batool., K.A. Khan., H. A. Ghramh., M. Hafeez., M. J. Ansarij and G. K. Sharma, 2019. Fitness parameters of *Plutella xylostella* (L.) (Lepidoptera; Plutellidae) at four constant temperatures by using age-stage, two-sex life tables. Saudi Journal of Biological Sciences. 26(7): 1661–1667. **IF 4.25.**
- 30.**Sarwar. Z. M.**, M. Ijaz., M. A. Sabri., H. Yousaf and M. Mohsan. 2018. Effects of selected synthetic insecticides on the total and differential populations of circulating haemocytes in adults of the red cotton strainer bug *Dysdercus koenigii* (Fabricius) (Hemiptera: Pyrrhocoridae), Environmental Science and Pollution Research. **IF. 5.00.**
- 31.Sajid.M., S.T. Sahi., M. Atiq., M. Abid., A. Rashid., M. R. Bashir., H. Jamil., R. Perveen., S. Chohan and **Z. M. Sarwar**, 2018. Alteration in ionic contents profiling of cotton due to bacterial blight disease caused by *Xanthomonas citri* pv. *Malvacearum*. Pakistan Journal of Agricultural Sciences; 55(4): 881-887. **IF 0.856.**
- 32.Sajid. M., A. Rashid., M. Abid., H. Jamil., M. R. Bashir., **Z.M. Sarwar.**, R. Perveen and S. Chohan.2018. Influence of Bt cotton germ Plasmon bacterial blight disease in pakistan. Pakistan Journal of Phytopathology; Vol. 31 (02) 145-148
- 33.Ahmad, T., **Z.M. Sarwar\***, M. Ijaz., M. Sajjad and M. Binyameen, 2017. Biodiversity and Faunistic Studies of the Family Pyralidae (Lepidoptera) from Pothwar Region, Punjab, Pakistan. Pakistan Journal of Life and Social Sciences; 15(2): 126-132
34. **Sarwar, Z.M.**, M.H. Bashir., M.R. Khan., N. Nazir and B. S. Khan, 2015. A new predatory mite species of the genus *Neoseiulus* (Phytoseiidae:Acari) from Narowal, Pakistan. International Journal of Agricultural Technology. 11 (1), pp.89-92.

- 35.Sarwar, Z.M,** M.H. Bashir., M. A. Khan., S.M. Honey., M. Afzal and Y. Ali, 2015. New acarid mites of the genus acotyledon Oudemans (acari: acaridae) from Pakistan. Pakistan Journal of Agricultural Sciences. 52(3), 723-730. **IF. 0.856**
- 36.Honey, F.S., Z. M. Sarwar\*.** M.H. Bashir., S. Ali., M. Kamran and M. Afzal, 2014.Two new species of the genus Acotyledon Oudemans, (Acari : Acaridae) infesting stored chickpea (Cicer arietinum) from Pakistan. Pakistan Journal of Zoology. 46(2), pp. 479-484.
- 37.Sarwar, Z.M.,** M.H. Bashir, B. S. Khan and M.A. Khan, 2013. Description of Two New Species of Genus Caloglyphus Berlese (Acari: Acaridae) From Punjab, Pakistan. Pakistan Journal of Zoology. 45(1), pp. 101-106.

### **Social link**

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