

CURRICULUM VITAE



**DR. MAQSOOD SHAH
PROFESSOR/ CHAIRMAN
DEPARTMENT OF ENTOMOLOGY
THE UNIVERSITY OF AGRICULTURE, PESHAWAR
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CV OF DR. MAQSOOD SHAH

RESEARCH INTEREST

Biology and Ecology of pest and predatory mites of agricultural importance. In this regard the role of photoperiodism on developmental progress and inhibition in pest and predatory mites as well as other small insect pests, is specifically under consideration. Besides Apiculture, honey bees and insect pollinators are also themes of interest.

LANGUAGES

English	Speaking, Reading, Writing
Urdu	Speaking, Reading, Writing
Pashto	Speaking, Reading
Arabic	Reading only
Japanese	Have little acquaintance with the language and can make short communication

EDUCATION

PhD (2011)

Graduate School of Horticulture, Chiba University, Japan

Worked on the photoperiodic induction and inhibition of diapause in Tetranychid mites. Effect of varying photoperiods was also investigated on the developmental time of immature stages. Research was also conducted on the diapauses inhibition under light period of varying duration and intensity.

Master of Science (Hons.) (2000)

Department of Entomology, The University of Agriculture, Peshawar, Pakistan

For my master thesis, I worked on the taxonomy of butterflies occurring in my home town (District Kohat).

Bachelor of Science (Hons.) (1998)

Department of Entomology, The University of Agriculture, Peshawar, Pakistan

Studied various entomological courses and delivered a seminar on the general biology and management of cockroaches

Higher Secondary School Certificate (1993)

Got Higher Secondary School Certificate from Federal Board of Intermediate and Secondary Education, Islamabad, Pakistan (Pre-Medical Group, 1st Division)

Secondary School Certificate (1991)

Got Secondary School Certificate from Federal Board of Intermediate and Secondary Education, Islamabad, Pakistan (Science Group, 1st Division)

DISTINCTIONS

PhD Scholarship under Faculty Development Project (FDP) of The University of Agriculture, Peshawar, sponsored by Higher Education Commission(HEC), Islamabad, Pakistan. 2007-2010

Got first position in M.Sc (Hons.) with CGPA of 3.86/4.00 in the Department of Entomology of The University of Agriculture, Peshawar. 1998-2000

Got 3rd position in B.Sc (Hons.) 3.77/4.00 in the Department of Entomology of The University of Agriculture, Peshawar. 1994-1998

EMPLOYMENT/ PROFESSIONAL EXPERIENCE

<u>POSITION</u>	<u>ORGANIZATION</u>	<u>PERIOD</u>
Lecturer	Department of Entomology, Faculty of Crop Protection Sciences, The University of Agriculture, Peshawar	16/03/2002-28/12/2009
Assistant Professor	Department of Entomology, Faculty of Crop Protection Sciences, The University of Agriculture, Peshawar	29/12/2009-12/05/2014
Associate Professor	Department of Entomology, Faculty of Crop Protection Sciences, The University of Agriculture, Peshawar	13/05/2014- 03/03/2022
Professor	Department of Entomology, Faculty of Crop Protection Sciences, The University of Agriculture, Peshawar	04/03/2022 till date

PROFESSIONAL COURSES OFFERED/TAUGHT

Ent-713, 3(2-1): Classification of Immature Insects
Ent-707, 3(2-1): Advanced Insect Physiology and Embryology
Ent-704, 3(2-1): Advanced Insect Morphology
Ent-712, 3(2-1): Acarology
Ent-501, 3(2-1): Insect Morphology
Ent-401, 3(2-1): Introductory Entomology

STUDENTS: supervised + under supervision = Total

Ph. D students:	3	+	6	=	9
M. Sc (H) students:	21	+	7	=	28
B. Sc (H) students:	40	+	10	=	50

Research Supervision

M. Sc (H) Students

S. No	Name of Student	Research Title	Status
01	Muhammad Arshad Qazi (April, 2002)	Identification, fecundity, development, host preference and monthly percent damage by <i>Callosobruchus</i> species	Degree Awarded
02	Amna Sadozai (Jan. 2003)	Host Preference of <i>Callosobruchus</i> (<i>maculatus</i>) in different legumes	Degree Awarded
03	Mishkat Ullah (Sep. 2003)	Efficacy of synthetic insect growth Regulator, Methoprene and oils of neem and turmeric against <i>Rhyzopertha dominica</i> Fab. (Bostrichidae: Coleoptera)	Degree Awarded
04	Basit Ullah Butt (Mar. 2005)	Assessment of cane and internode damage in millable cane by sugarcane pest complex in Punjab, Pakistan	Degree Awarded
05	Laila Khan (Mar. 2015)	Host preference of red pumpkin beetle, <i>Aulacophora faveicollis</i> (Chrysomelidae: Coleoptera) among different cucurbits	Degree Awarded
06	Inam Shah (Mar. 2015)	Studies on varietal response of cucumber to insect pollinators	Degree Awarded
07	Unzla Zafar (Mar. 2015)	Bionomics and management of pulse beetle (<i>Callosobruchus chinensis</i> L.) on stored mung bean (<i>Vigna radiata</i>)	Degree Awarded
08	Junaid Iqbal (May 2017)	Utilizing nutritional and mechanical means for sex separation at pupal stage in <i>Aedes aegypti</i>	Degree Awarded
09	Muhammad Yousaf (September 2017)	Integrated management of chilli thrips <i>Scirtothrips dorsalis</i> (Hood) (Hymenoptera: Thripidae) in chilli crop at ARI Tarnab Pehsawar	Degree Awarded
10	Ateeq ur Rehman (January 2018)	Effect of botanical extracts and synthetic insecticide on different insect pests and yield of pea (<i>Pisum sativum</i>)	Degree Awarded
11	Haroon Shahid (December 2018)	Taxonomic study of syrphid fly fauna of Districts Swabi and Mardan, KP, Pakistan	Degree Awarded
12	Hanif Tariq (February 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
13	Siraj Ahmad Khan (July, 2021)	Distribution and taxonomic study of beetles (Coleoptera) from District Karak, Khyber Pakhtunkhwa, Pakistan	Degree Awarded

14	Bilal Ahmad (June 2022)	Effect of commercially available insecticides on sucking insect pests, natural enemies and pollinators associated with Okra (<i>Abelmoschus esculentus</i>) crop	Degree Awarded
15	Tauseef Ahmad (January, 2023)	Evaluation of different food baits for the attraction of fruit fly <i>Bactrocera</i> species (Diptera: Tephritidae) in guava orchard	Degree Awarded
16	Ali Bin Mubarik (January, 2023)	Evaluation of ovipositional attractants and larval diets for rearing of <i>Bactrocera zonata</i> and <i>B. dorsalis</i> (Diptera: Tephritidae) under laboratory conditions	Degree Awarded
17	Ejaz Un Nabi (June, 2023)	Evaluation of different phagostimulants for attraction of Subterranean termites <i>Hetertermes indicola</i> (Isopter: Termitidae) under laboratory conditions	Degree Awarded Degree
18	Muhammad Shayan (June, 2023)	varietal response of tomato aphids infestation and its effect on yield	Degee Awarded
19	Sheraz Malik (July, 2023)	Population dynamics of insect pests of different varieties of cauliflower under field conditions	Awarded
20	Obaidullah (December, 2023)	Evaluation of China clay in comparison with Botanical and synthetic insecticide against fruit fly In tomato at District Swat	Degree Awarded
21	Abdul Mujeeb (January, 2024)	Efficacy of different synthetic insecticides against Brinjal borer (<i>Leucinodes orbanalis</i>)	Degree Awarded

Ph. D Students

01	Fazli Subhan	Taxonomic studies of syrphid flies of Dry Northern Mountain Region of Pakistan	Degree Awarded
02	Muhammad Usman (June 2020)	Taxonomic study of subfamily Pimplinae (Hymenoptera: Ichneumonidae) in different Agro-ecological zones of Khyber Pakhtunkhwa-Pakistan	Degree Awarded
03	Mian Sabahatullah (July, 2021)	Taxonomic study of subfamily opiinae (Braconidae: Hymenoptera) of different ecological Zones of Khyber Pakhtunkhwa-Pakistan	Degree Awarded

Trainings

On-Farm Beekeeping-Held at University of the Punjab, Lahore, Pakistan. April 22-25, 2003

Designing Crop Experiments-Held at NWFP Agricultural University, Peshawar, Pakistan. January 6-11, 2003

Conducting Crop Experiments & Experimental Techniques-Held NWFP Agricultural University (Now The University of Agriculture) University of Agriculture) Peshawar, January 13-18, 2003

Rearing management of agricultural pests and natural enemies: Center for Environment, Health and Field Sciences, Chiba University, Kashiwanoha Campus, Kashiwa, Japan. December 7, 2009 - February 28, 2010

Rearing management of agricultural pests and development of a lighting method for pest control: Center for Environment, Health and Field Sciences, Chiba University, Kashiwanoha Campus, Kashiwa, Japan. November 1, 2010 - March 31, 2011

Physical environment control for management of agricultural pests and natural enemies: Center for Environment, Health and Field Sciences, Chiba University, Kashiwanoha Campus, Kashiwa, Japan. May 1, 2011 – July10, 2011

Conferences

- 1) **Shah M.**, Suzuki T., Ghazy N.A., Amano H., Ohshima K. Effect of Photoperiod on the diapause induction of Kanzawa spider mite, *Tetranychus kanzawai*. 54th Annual Meeting of the Japanese Society of Applied Entomology and Zoology, Chiba, Japan 26-28 March, 2010 (oral)
- 2) Suzuki T., **Shah M.**, Ghazy N.A., Takeda M., Amano H., Ohshima K. Developing a space-saving system for investigating photoperiodism in small animals. 54th Annual Meeting of the Japanese Society of Applied Entomology and Zoology, Chiba, Japan 26-28 March, 2010 (oral)
- 3) Ghazy N.A., Suzuki T., **Shah M.**, Amano H., Ohshima K. Low temperature and high humidity as a strategy for long-term storage of a predatory mite *Neoseiulus californicus* (Gamasida: Phytoseiidae). 13th International Congress of Acarology, Recife-PE, Brazil, 23-27 August, 2010 (oral)
- 4) Suzuki T., **Shah M.**, Ghazy N.A., Takeda M., Amano H., Ohshima K. A space-saving system for testing the photoperiodic response of insects and mites, and its use in diapause experiments for *Tetranychus urticae*. 13th International Congress of Acarology, Recife-PE, Brazil, 23-27 August, 2010 (poster)
- 5) **Shah M.**, Suzuki T., Ghazy N.A., Amano H., Ohshima K. Effect of night interruption on the diapause induction of Kanzawa spider mite, *Tetranychus kanzawai* Kishida. The 19th Annual Meeting of the Acarological Society of Japan, Sendai, Japan 10-12 September, 2010 (oral)
- 6) Ghazy N.A., Suzuki T., **Shah M.**, Amano H., Ohshima K. Long-term storage of *Neoseiulus californicus* at low temperature and high humidity: post storage development, survival and reproduction ability. The 19th Annual Meeting of the Acarological Society of Japan, Sendai, Japan 10-12 September, 2010(oral).
- 7) Ghazy N.A., Suzuki T., **Shah M.**, Amano H., Ohshima K. Role of the cannibalistic habit and relative humidity in storage of the predator mite *Neoseiulus californicus* (Acari: Phytoseiidae). 55th Annual Meeting of the Japanese Society of Applied Entomology and Zoology, Fukuoka, Japan 27-29 March, 2011 (poster)

- 8) Ghazy N.A., Suzuki T., **Shah M.**, Amano H., Ohyama K. Long-term storage strategy for the predatory mite, *Neoseiulus californicus*, under conditions of low air temperature and high relative humidity with reference to post-storage biological traits. 20th Annual Meeting of Acarological Society of Japan, Kochi, Japan 28-30 September 2011 (oral)
- 9) Ohyama K, Suzuki T, Amano H, **Shah M**, Ghazy NA. Environmental management technology for controlling spider mites. Second Symposium on Horticulture in Europe, Angers, France, 1 -5 July 2012(oral)

Publications

1. **Shah, M.**, M. Inayatullah and M. A. Rafi. 2001. Some Pierid Butterflies of Kohat District. Sarhad J. Agric. 17 (3): 408-413
2. Amna, S., M. Naeem, M. Inayatullah, **M. Shah** and A. Ali. 2003. Host Preference of pulse beetle *Callosobruchus maculatus* in different legumes. Sarhad J. Agric. 19 (4): 557-561
3. Inayatullah, M., A. Ali and **M. Shah**. 2003. Aphid species and percent parasitism of their parasitoids of the subfamily Aphidiinae (Braconidae: Hymenoptera) on wheat in plains of NWFP. Pak. Entomol. 25 (2): 120-127
4. Ahmad, S., **M. Shah**, H. M. Khalid Farooq and F. Ullah. 2004 Resistance of cotton against *Amrasca devastans* (Jassidae:Homoptera) and relationship of the insect with leaf hair density and leaf hair length. Sarhad J. Agric. 20 (2): 265-268
5. Ullah, M., Basit, U. B. and **M. Shah**. 2006. Assessment of Cane and Internode Damage in Millable Cane by Sugarcane pest Complex. Sarhad J. Agric. 22 (2): 297-302
6. Shah, S. I. A, I. A. Khan, Z. Hussain, **M. Shah**, A. Usman and A. Sadozai. 2007. Studying the performance of silkworm, *Bombyx mori* L. races fed with different mulberry varieties. Sarhad J. Agric. 23 (4): 1079-1084
7. Shah, S. I. A, I. A. Khan, I. Ahmad, **M. Shah** and Z. Hussain. 2007. Comparison of three silkworm races fed with three mulberry varieties. Sarhad J. Agric. 23 (4): 1103-1108
8. **Shah, M.**, T. Suzuki, N.A. Ghazy, H. Amano and K. Ohyama. 2011. Effect of photoperiod on immature development and diapause induction in the Kanzawa spider mite, *Tetranychus kanzawai* (Acari: Tetranychidae). Exp. Appl. Acarol. 55(2): 183-190
9. **Shah, M.**, T. Suzuki, N.A. Ghazy, H. Amano and K. Ohyama. 2011. Night-interrupting light inhibits diapause induction in the Kanzawa spider mite, *Tetranychus kanzawai* (Acari: Tetranychidae). J. Insect Physiol. 57: 1185-1189
10. Suzuki, T., **M. Shah**, N. A. Ghazy, M. Takeda, H. Amano and K. Ohyama. 2011. An improved space-saving system for testing photoperiodic responses of insects

- and mites: its use for diapause experiments in the two-spotted spider mite, *Tetranychus urticae* (Acari: Tetranychidae). App. Entomol. And Zool. 46: 449-454
11. Ghazy, N. A., T. Suzuki, **M. Shah**, H. Amano and K. Ohyama. 2012. Effect of long-term cold storage of the predatory mite *Neoseiulus californicus* at high relative humidity on post-cold storage biological traits. BioControl 57: 635-641
 12. Ghazy, N. A., T. Suzuki, **M. Shah**, H. Amano and K. Ohyama. 2012. Using high relative humidity and low air temperature as long-term storage strategy for the the predatory mite *Neoseiulus californicus* (Gamasida: Phytoseiidae). Biol. Control 60: 241-246
 13. Usman A., I.A. Khan, M. Inayatullah, A. R. Saljoqi, and **M. Shah**. 2013. Appraisal of different tomato genotypes against tomato fruit worm (*Helicoverpa armigera* Hub.) infestation. Pakistan J. Zool. 45(1): 113-119
 14. Ohyama K, Suzuki T, Amano H, **M Shah**, Ghazy NA. 2015. Environmental management technology for controlling spider mites. Acta Horticulturae. 1099: 357-362
 15. Sohail, K, S. Jan, A. Usman, S. F. Shah, M. Usman, **M. Shah**, M. A. Mashwani and A. Mehmood. 2015. Evaluation of some Botanical and Chemical insecticides against the insect pests of okra. J. Entomol. Zool. Studies.3(2): 20-24
 16. 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
 17. Usman A, I. A. Khan, **M. Shah**, K. Sohail and F.Syed. 2015. Influence of various biochemical factors on the occurrence of *Helicoverpa armigera* (Hubner) in Tomato. J. Entomol. Zool. Studies. 3(3): 63-68
 18. Usman A, I. A. Khan and **M. Shah**. 2015. Evaluation of some selected IPM modules for the management of tomato fruit worm (*Hrlicoverpa armigera* Hub.) J. Entomol. Zool. Studies. 3(4): 379-382
 19. Shah, I., **M. Shah**, A. Khan and A. Usman. 2015. Response of insect pollinators to different cucumber, *Cucumeris sativus* L. (Cucurbitales: Cucurbitaceae) varieties and their impact on yield. J. Entomol. Zool. Studies. 3(5): 374-378
 20. Shah, S. M, G. Z. Khan, A. Usman and M. Shah. 2016. Exploiting nutrition for sex separation in *Culex quinquefasciatus* (Say) species of mosquitoes. . J. Entomol. Zool. Studies. 4(2): 267-272
 21. Subhan, F. and **M. Shah**. 2016. Taxonomic study of genus Sphaerophoria Le Peletier et Serville (Diptera: Syrphidae) with three species from Northern Dry Mountain region of Pakistan. J. Entomol. Zool. Studies. 4(4): 1192-1198
 22. Iqbal, A., A. Usman, **M. Shah** and S. S. 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

23. 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(9): 1051-1054
 24. Rehman, M., S. Ahmad, **M. Shah** and I. Khan. 2018. Identification of Varroa mite species of honeybee specie, *Apis mellifera* in Khyber Pukhtunkhwa, Peshawar, Pakistan. *Sarhad J. Agric.* 34(2): 414-417
 25. 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 App. Biol.* 7(3): 1014-1020
 26. Yousaf, M., M. Shah, A. Usman, J. Sarwar, J. Iqbal and R. A. Shah. 2018. Management of chilli thrips *Scirtothrips dprsalis* (Hood) (Thysanoptera: Thripidae) in chilli crop. *Pure App. Biol.* Published online: <http://dx.doi.org/10.19045/bsbap.2018.700185>
 27. Sabahtullah M and **M. Shah**. 2022. Two new species of genus Opius Wesmael (Opiinae: Braconidae: Hymenoptera) from Khyber Pakhtunkwa province of Pakistan.
 28. Amin, F., A. Usman, M. Shah & S. Khan. 2024. Effect of Tenebrio molitor supplementation on performance and immunity of broilers under heat stress conditions. *Pak. J. Zool.*, pp 1-6, 2024.
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