

SHAHID MAJEED



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EDUCATION AND TRAINING

Ph.D.

Entomology / Insect Chemical Ecology
Swedish University of Agricultural Sciences, Alnarp-Sweden
2008-2013

Master of Science

(M.Sc. (Hons) Agri. Entomology)
Department of Entomology
University of Agriculture
Faisalabad, Pakistan
2005-2007

Bachelor of Science

B.Sc (Hons) Agriculture
Department of Entomology
University of Agriculture
Faisalabad, Pakistan
2001-2005

SUMMARY

Skilled in research, study-related procedures, and protocols to ensure service excellence. Well-versed in project management and research planning with proven talents in insect chemical ecology, acoustic communication, insect behaviour, and insect electrophysiology. Pursuing new professional challenges and offering innovative abilities with more than 10 years of experience. Multitasking abilities to work as an independent and team member researcher as well as develop consortium among academia, research, and industry.

SKILLS

- Teaching & Research
- Insect Rearing
- Specimen handling
- Insect bioassay
- Wind tunnel Behavioural Bioassay
- Y-tube Behavioural Bioassay
- Landing Behavioural Bioassay
- WHO-cone Bioassay
- Collection of Organic Volatiles (VOCs)
- GC-MS analysis sample preparation and acquisition
- Acoustic bioassay
- MS office
- Insect Electrophysiology
- Surveillance, monitoring, and collection of invertebrates
- Written Communication Research Projects
- Project Planning
- Protocol Development
- Laboratory Results Management
- Records Maintenance
- Report Writing & Preparation
- Research Management
- Technical Support
- Presentation Skills
- Team Management
- Team Building
- Quality Assurance
- Supervision and Leadership

EXPERIENCE

ASSOCIATE PROFESSOR

University of Agriculture, Faisalabad | Faisalabad, Pakistan | June 2022 – to date

ASSISTANT PROFESSOR

University of Agriculture, Faisalabad | Faisalabad, Pakistan | June 2014 - June 2022

RESEARCHER

Natural Resources Institute (NRI), The University of Greenwich, Medway | Greenwich, United Kingdom | January 2008 - February 2008

Analysed data using HPLC.

ACCOMPLISHMENTS

Research Projects

- Project completed as **Principal Investigator (PI)** under the title “Effect of temperature and humidity on development and survival rate of *Aedes aegypti*”. Funded by the Higher Education Commission, Pakistan, 2014.
- Project completed as **Principal Investigator (PI)** under the title “Efficient Management of Fruit flies (*Bactocera spp.*) by using Nano based Pheromone Trap Technique”. Funded by Punjab Agriculture Research Board (PARB) 2017.
- Project completed as **Principal Investigator (PI)** under the title “Olfactory Response and Host Plant Feeding Preferences of Desert Locust to Common Plants in Punjab Province of Pakistan”. Funded by the Higher Education Commission, Pakistan and World Bank, 2021.
- Project completed as **Principal Investigator (PI)** under the title “Integrated Pest Management Approach to Mitigate the Fruit Flies Issue in Vegetables and Fruits through Biocontrol Agents”. Funded by Punjab Agriculture Research Board (PARB), Pakistan 2022.
- Project completed as **Co-Principal Investigator (Co-PI)** under the title “Field and Laboratory Evaluation of Sumilarv 2 MR as effective intervention against *Aedes aegypti/albopictus* a vector of dengue in Pakistan”. Funded by Sumitomo Chemical (Asia Pacific) Ptv. Ltd Singapore, 2015.
- Project completed as **Co-Principal Investigator (Co-PI)** under the title “Microbial based pest management program for Tephritid Fruit flies”. Funded by Punjab Agriculture Research Board (PARB)2017.

Selected Publications:

- **Shahid Majeed**, Hill RS, Ignell R, (2014). Impact of elevated CO₂ background levels on the host-seeking behaviour of *Aedes aegypti*. Journal of experimental biology (217): 598-604.
- Bonaventure A, **Shahid Majeed**, Ignell R., (2015). Functional development of carbon dioxide detection in the maxillary palp of *Anopheles gambiae* Journal of Experimental Biology 218: 2482-2488; doi: 10.1242/jeb.116798.

- Hill SR, **Shahid Majeed**, Ignell R., (2015). Molecular basis for odorant receptor tuning: a short C-terminal sequence is necessary and sufficient for selectivity of mosquito Or8. *Insect Molecular Biology* 24(4), 491–501, doi: 10.1111/imb.12176.
- Naeem M, Khan RR, Ahmed S, Arshad M, **Shahid Majeed**, Sufyan M and Rasul A, (2016). Relative effectiveness of different insecticides against pea leaf minor (*Phytomyza Horticola* Goureaux) on pea under field conditions. *Journal of Pakistan Entomologist* 38 (1): 47-53.
- **Shahid Majeed**, Hill SR, Birgersson G, Ignell R. (2016). Detection and perception of generic host volatiles by mosquitoes modulate host preference: context dependence of (R)-1-octen-3-ol. *Royal Society Open science* 3:160467. <http://dx.doi.org/10.1098/rsos.160467>.
- **Shahid Majeed**, Hill SR, Dekker T, Ignell R. (2016). Detection and perception of generic host volatiles by mosquitoes: responses to CO₂ constrains host-seeking behaviour. *Royal Society Open science* 4:170189. <http://dx.doi.org/10.1098/rsos.170189>
- Chaudhary M.Z, **Shahid Majeed**, Tayyib M, Javed N, Farzand A, Moosa A, Shehzad M, Mushtaq F.(2017).Antagonistic potential of *Steinernema kraussei* and *Heterorhabditis bacteriophora* against Dengue fever mosquito *Aedes aegypti*. *Journal of Entomology and zoology studies* 5(5): 865-869.
- Maqbool M., Ali S., Hussain M. T. H., Khan A. and **Shahid Majeed**. (2019). Comparison of Dyeing and Functionalization Potential of Some Selected Plant Extracts Applied on Cotton Fabric. *Journal of Natural Fibers*.16(7):1-9. <https://doi.org/10.1080/15440478.2019.1612304>
- Muhammad Azeem, Tariq Zaman, Muhammad Tahir, Abdullah Haris, Zafar Iqbal, Muhammad Binyameen, Abdul Nazir, Sarfraz Ali Shad, **Shahid Majeed**, Raimondas Mozūraitis.(2019). Chemical composition and repellent activity of native plants essential oils against dengue mosquito, *Aedes aegypti*. *Industrial Crops & Products*. 140: 111609. <https://doi.org/10.1016/j.indcrop.2019.111609>.
- Majid Ghaninia, **Shahid Majeed**, Teun Dekker, Sharon R. Hill, Rickard Ignell.(2019).Hold your breath – Differential behavioral and sensory acuity of mosquitoes to acetone and carbon dioxide. *PLoS ONE* 14(12): e0226815. <https://doi.org/10.1371/journal>.
- Muhmmad Naeem Mushtaq, Muhammad Arshad, **Shahid Majeed**, and Sajid Aleem Khan (2020). Demographic and morphometric features of pink bollworm, *Pectinophora gossypiella* (Saunders) (Lepidoptera: Gelechiidae) on four host plants. *International Journal of Tropical Insect Science*. <https://doi.org/10.1007/s42690-020-00185-w>
- Muhammad N. B., S. Riffat, K. Santosh, S. Surriya, M. **Shahid**, S. G. H. (2023). Analytical observation Upsurge and Current Situation of Desert Locust (*Schistocerca gregaria*) in Sindh, Pakistan. *J. Appl. Res Plant Sci*. 4: 459-468.
- **Majeed S**, Sufyan M, Abbasi A, Binyameen M, Saleem R, Alkherb WA, Faisal S, Ijaz J, Hameed H. Efficacy of different blood meals for the mass rearing of *Aedes aegypti* (Diptera: Culicidae) population. *International Journal of Tropical Insect Science*. 2024 Apr 24:1-8.
- Rahman A, Hussain F, **Majeed S**, Nazeer MU, Sharif RM, Asif M, Sattar W. Silicon Applications on Yield Attributes of Wheat (*Triticum aestivum* L.) and Biology of Wheat-Aphid (*Schizaphis Graminum*). *Silicon*. 2024 Feb 20:1-8.

- Muhammad Sajjad, Muhammad Binyameen, Asif Sajjad, **Shahid Majeed**, Ghazanfar Ali Chishti, and Ehsaan Ullah Khan, (2024). Exploring the potential of cotton leafworm (*Spodoptera litura*) as a sustainable and efficient alternative protein source in broiler feed. (Accepted in Journal of Insects as Food and Feed).

BOOK CHAPTERS

- Ahmad Nisar, Nabeeha Aslam Khan, Anjum Faraz, Muhammad Kaleem Sarwar, **Shahid Majeed**, Hayssam Mohamad Ali, Tahir Hussain Awan, and Amer Habib (2023). Ethiology and Integrated Disease Management of Zea mays In: Sidra Ijazm Imran ul Haq and Hayssam Mohamad Ali (eds). Sustainable Summer Fodder Productionm Challenges and Prospects. 271-296, pp 482. ISBN (Online): 978-1-003-26580-1. CRC press by Taylor and Francis Group, LLC.
- Rashad Rasool Khan, Muhammad Iftakhar, Muhammad Arshad, and **Shahid Majeed**.(2022) .Agricultural Risks Within plant protection Approaches In: Agricultural Risks management Through Collective Actions. University of Agriucture, Faisalabad. ISBN (Online): 978-969-7705-40-5.
- Muhammad Jalal Arif, Waqas Wakil, Muhammad Dildar Gogi, Rashad Rasool Khan, Muhammad Arshad, Muhammad Sufyan, Ahmad Nawaz, Abid Ali and **Shahid Majeed**.(2018). Trends in Sustainable Management of Emerging Insect pests In: Developing sustainable Agriculture in Pakistan. CRC Press, Taylor & Francis Group.
- Ahmad Nawaz, **Shahid Majeed**, Muhammad Tayyab, Anam Ejaz, Kaynaat Akbar, Iffa Marium, Aqsa Shareef, Muhammad Ahsan Khan and Asim Munawar (2025). Advances in Ecology of Forensically Important Flies In: Advances in Forensic Entomology Basic and Applied Aspects. Techsar publisher.

ACTIVITIES AND HONORS

- Established and maintained insect-rearing facilities for fruit flies (*Bactrocera* spp.), and mosquitoes etc.
- Organized and participated in several national & international conferences, workshops, seminars, and symposiums.
- Supervised 60 M.Sc. (Hons.) Entomology/M.Phil. Zoology students completed their research and successfully defended their thesis.
- Awareness lectures delivered on diseased vectors like Mosquitoes, and fruit flies etc.
- Since 2014, performance base increment has been awarded each year based on Self-Assessment Reports assessed by relevant Head of Department, Dean Faculty and external evaluation.
- Perform various advisory, administrative and community activities.
- Provided advisory services in the meetings organized by District Coordination Office (DCO), Faisalabad on dengue eradication program (Nominated by Chairman, Department of Entomology).
- Examines the mosquitos' behavioral bioassay as per WHO protocol to the proposed pesticides by the Directorate General of Health Services, Lahore, Punjab-Pakistan since June 2014.

CERTIFICATIONS

- Insect chemical ecology
- Chemical analysis in chemical ecology
- Insect olfaction
- Sensory ecology
- Neurobiology of insects
- Insect molecular genetics
- Treatment of data
- Evolution in 4 dimensions
- How to write and publish a scientific paper

REFERENCES

References available upon request.

LANGUAGES

Urdu: First Language

English: C2

Proficient (C2)