

Curriculum Vitae

Dr. Shahzad Ali Nahiyoon

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Contact

Dr. Shahzad Ali Nahiyoon

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Shezi_129 - **ResearchGate:** <https://www.researchgate.net/>

Date of birth: May 5, 1990 - **Nationality:** Pakistani - **Passport No.:** AB9141151



Objective

I am looking for an opportunity to work in an institution that provides a research platform for professional development, interesting experiences, and personal growth. Experienced agricultural professional with expertise in tasks such as teaching, research, agricultural drone spray, field visits, pest identifications, pest management (Biological, & chemical), control. Spray physical parameters, equipment, and field applications.

Education

2019 **Ph.D. Pesticide Science (Pesticide Toxicology and Application Technology)**

Chinese Academy of Agricultural Sciences, Beijing, PR 100080 China (<http://www.caas.cn/en/>)

Dissertation: Spectral Biocidal radiuses of different insecticides associated with adjuvants droplets against cotton Aphid

Main courses: Integrated Pest Management, Pesticide application technology, Advanced in Pesticide Science, Progress in agricultural science and technology, Pesticide Resistant and Management, Experimental design and statistical analysis in Agricultural research, Professional seminar, Comprehensive Examination, Classical literature surveys, Experimental design and statistical analysis, Chinese culture, Academic Writing, China Surveys, Conversational Chinese, Primary Comprehensive Chinese, (Additional) Spray drift, Agricultural drone operations.

2016 **M.Sc. Entomology (Biological Control)**

Sindh Agriculture University Tandojam, Sindh 70060, Pakistan (<https://www.sau.edu.pk/>)

Dissertation: Effect of Different Temperatures on Storage of Pupal Parasitoid, *Dirhinus giffardii* of *Bacterocera Zonata* (Sanuders).

Main courses: Advances in physiology and Embryology, Research Methods in Entomology, Advance Insect Ecology, Pest management Information, Acarology, Advance in Pest management research, Insecticide Toxicology, Advanced agricultural development.

2013 **B.Sc. Entomology**

Sindh Agriculture University Tandojam, Sindh 70060, Pakistan (<https://www.sau.edu.pk/>)

Internships

- Nuclear Institute of Agriculture (NIA) Tando Jam – 3 Months
Worked in three sections; Parasitology, Pathology, and Microbiology.

Final Project: Effect of host age on the parasitization of *Bacterocera cucurbitae* (Melon fly) under laboratory conditions.

2008 **H.S.S.C (Higher Secondary School Certificate)**

Board of Intermediate Secondary Education Hyderabad, Sindh Pakistan

Group: Pre-Medical

2006 **S.S.C (Secondary School Certificate)**

Board of Intermediate Secondary Education Hyderabad, Sindh Pakistan

Group: Science

Work Experience

- November 12, 2020 - Working
Assistant Professor (IPFP)
Department of Entomology, Sindh Agriculture University, Tando Jam.
Responsibilities: Classes / Practicals on pesticide applications, Proper utilization of pesticide dosage, IPM, Research Methods in Entomology.
- March 1, 2019 - August 20, 2020
Research Assistant
Institute of Plant Protection, Chinese Academy of Agricultural Sciences, Beijing, PR 100080 China (<http://ipp.caas.cn/en>), Project funded by National Science Foundation of China.
Responsibilities: Research on Pest Management strategies, Mechanisms of Increased Indoxacarb Toxicity in Methoxyfenozide-Resistant Cotton Bollworm *Helicoverpa armigera* (Lepidoptera: Noctuidae).
- May 15, 2018 - June 15, 2018
Agricultural Drone Training
ANYANG TAIHANG UAV flying training school, Anyang, Henan, China.
Responsibilities: Training/ Teaching, flight operations, and Insect Pest Management.
- January 10, 2011 - January 15, 2012
Farmer Field School (FFS)
Latif Farm Sindh Agricultural university Tandojam, organized by Government of Sindh Community IPM & IPNM Project Agriculture Extension Sindh Hyderabad.
Responsibilities: Farmers Training/ Teaching, Pest identifications, their mode of action, and management strategies.
- June 10, 2021 -
HEC Approved Supervisor
Responsibilities: Research/ Training/ Teaching, and Professional Management strategies.

Projects Incharge (P.I.)

1. Use of Atomization System In Crop Protection System of Pakistan (SRGP-90), Funded by Higher Education Commission Pakistan. 2020

Course Teaching (B.Sc)

Insecticide and their applications: **ENT-605**
Molecular Entomology **ENT-402**
Insect Behaviour: **ENT-509**

Publications

Published

1. **Shahzad Ali Nahiyoon**, Cui L, Daibing Yang, Yan X, and Yuan H (2020). Biocidal radiuses of cycloxaprid, imidacloprid and lambda-cyhalothrin droplets controlling against cotton aphid (*Aphis gossypii*) using an unmanned aerial vehicle. Pest Management Science USA. (**Sci IF.4.84, Q1**).
2. Cui L, Wang G, Yang D, **Shahzad Ali Nahiyoon**, Yan X, and Yuan H (2018) Biocidal radiuses of abamectin, thiamethoxam and sulfoxaflor droplets controlling against wheat aphid (*S. avenae*), Plos One USA. 1–11 (**Sci IF 2.76 Q2**).

3. Wang, qinqin; Rui, Changhui; Wang, Li; **Nahiyoon, Shahzad Ali**; Huang, Weiling; Zhu, Junshu; Ji, Xuejiao; Yang, Qingjie; Yuan, Huizhu; cui, li (2021). Field-evolved resistance to eleven insecticides and the mechanisms involved in *Helicoverpa armigera* (Lepidoptera: Noctuidae) Pest Management Science USA. (**Sci IF.4.84, Q1**).
4. Qinqin Wang, Changhui Rui, Qiyuan Wang, Li Wang, Fugen Li, **Shahzad Ali Nahiyoon**, Huizhu Yuan, and Li Cui(2020) Mechanisms of increased susceptibility to indoxacarb in the methoxyfenozide-resistant cotton bollworm, *Helicoverpa armigera* (Lepidoptera: Noctuidae). Toxics, 8, 71. (**Sci IF 4.146 Q1**).
5. **Shahzad Ali Nahiyoon**, Aslam bukero, Abdul Ghani Lanjar, Abdul Waheed solangi., Riaz Ali Nahiyoon., Waqar Ahmed Chandio., Mozam Hyder Sahito. (2016). Evolution of emergence percentage and mortality of pupal parasitoid *Dirhinus giffardii* (silverstri 1914), at five different temperatures under laboratory condition. Sci.Int 28(4),4193-4197 (**HEC-Y**).
6. **Shahzad Ali Nahiyoon**, Aslam Bukero, Abdul Ghani Lanjar, Abdul Waheed Solangi, Lubna Bashir Rajput, Imtiaz Ahmed Nizamani, and Moazam Hyder Sahto Varietal preference of Thrips (*Thrips tabaci lind* on cotton. Sci.Int 28(2) 1253-1254,2016 (**HEC-Y**).
7. **Shahzad Ali Nahiyoon**, Aslam bukero, Abdul ghani lanjar, Abdul Waheed solangi., Riaz Ali Nahiyoon., Waqar ahmed chandio., Mozam Hyder Sahito. (2016). Effect of five lowest temperatures on storage of pupal parasitoid, *Dirhinus giffardii* (silverstri 1914). Sci.Int (Lahore),28(5),4759-4762 (**HEC-Y**).
8. Muhammad Qasim Memon, Abdul Ghani Lanjar, Muhammad Khan Lohar, Maqsood Anwer Rustamani, Abdul Sattar Buriro, Muslim Qadir and **Shahzad Ali Nahiyoon** (2020). Biology of mango inflorescence gall midges *Desineura amaramanjarae* recently found in Sindh, Pakistan. Pure Appl. Biol., 9(2): 1304-1312 (**HEC-Y**). <http://dx.doi.org/10.19045/bspab.2020.90135>.
9. Hamid Rehman, Aslam Bukero, Abdul Ghani Lanjar, Lubna Bashir, Zainab Lanjar and **Shahzad Ali Nahiyoon** (2020). Use of *Chrysoperla Carnea* larvae to control whitefly (Aleyrodidea:Hemiptera) on a tomato plant in greenhouse. Pure and Applied Biology 9(4) 2128-2137 (**HEC-Y**). <http://dx.doi.org/10.19045/bspab.2020.90227>.
10. Hamid Rehman, Aslam Bukero, Abdul Ghani Lanjar, Lubna Bashir, Zainab Lanjar and **Shahzad Ali Nahiyoon** (2020). Comparison of different mechanical traps to screening and control of whitefly (Aleyrodidea: Hemiptera) population in tomato crop. Pure and Applied Biology 9(4) 2151-2157 (**HEC-Y**).
11. S.shahzad ali, M. Y. Khaskheli, S.S Ahmed, H. Rizwana, A. Bukero, G. Thebo, **Shahzad Ali Nahiyoon**, I. A. Rattar And S. Ahmed (2015). Effect of Bio-pesticides On Biology of *Chrysoperla Carnea* F. (Neuroptera: Chrysopidae), Journal of basic & applied science, 11, 559-566 (**HEC-Y**).
12. Bukero. A., A. G. Lanjar., A. W. Solangi, M. Faisal, S. N. Pathan, **Shahzad Ali Nahiyoon** (2015). Biology of *Coccinella transversalis* Fab. on *Aphis nerii* under laboratory conditions. Sci.Int 27(4) 3289-3292 (**HEC-Y**).
13. Bukero, A., Lanjar, A. G., A. W. Solangi, S. A. Memon, G. Thebo, **Shahzad Ali Nahiyoon** and R. A. Buriro (2014). Voracity rate and development period of *Coccinella transversalis* (Fab.) of three aphid sepeices. Sci.Int 26 (5) 2255-2257 (**HEC-Y**).
14. Bukero,A., A.G.Lanjar., M.N. Rais., G.A.Thebo., **Shahzad Ali Nahiyoon.**, N.A.Waraich(2015). Floral activity time-period of pollinators on safflower *Carthamus tinctorius*. Sci.Int 27(1), 347-348 (**HEC-Y**).
15. Bukero. A., M.A.Rustamani., A. G. Lanjar., I.Khan., A.W. Solangi., **Shahzad Ali Nahiyoon**, and G.Q. Mastoi., 2015. Influence of *lipaphis erysimi* (kalt.) on life stages of *Hippodamia Convergens* guer under laboratory conditions, Sci.Int 27(3), 2267-2270 (**HEC-Y**).
16. Bukero. A., M.A. Talpur., M.N. Rais., A.G. Lanjar., I. Arain and **Shahzad Ali Nahiyoon** (2015). Activity of thrips and their natural enemies on rose, Sci.Int 27(4) 3293-3296 (**HEC-Y**).
17. Bukero. A., M. A. Nizamani., I. A. Nizamani., S. S. Ali., M. I. Khaskheli., A. G. Lanjar., M. A.Abro and **Shahzad Ali Nahiyoon** (2015). Effect of Different Diets on The Development and Morphometric of *Coccinella septempunctata* (Linneous). Journal of Basic & Applied Sciences. 11, 284-286(**HEC-Y**).

18. Balouch, S., Bukero. A., I. A. Nizamani M. I. Kumbhar A. G. Lanjar., L. B Rajput N. A. Qureshi J. A. sheikh., Shahzad Ali Nahiyoon and Z. Rajput (2016). Rearing of green lacewing *Chrysoperla Carnea* (Stephens). *Sci.Int.*12,289:292 (HEC-Y).
19. Abdul Waheed Solangi, Abdul Ghani Lanjar, Aslam Bukero, Ali Raza Shah, **Shahzad Ali Nahiyoon** and Babar Hussain Hhang (2016). Weeding, a population suppression tool for *Bemisia tabaci* (hemiptera: aleyrodidae) on tomato crop. *Sci.Int*, 28(4),4007-4012 (HEC-Y).
20. Aslam Bukero¹, Abdul Waheed Solangi, Abdul Ghani Lanjar¹, **Shahzad Ali Nahiyoon** and Mehar Ul Nissa Rais (2016) Effect of natural diets on the biological parameters of *menochilus sexmaculatus* (linneous) under laboratory conditions. *Sci.Int* 28(4) 4103-4108 (HEC-Y).
21. Raja Riaz Hassan Awan, Abdul Ghani Lanjar, Aslam Bukero, Imtiaz Ahmed Nizamani, **Shahzad Ali Nahiyoon** and Dileep Kumar (2021). Life table studies of three mango hopper species in field conditions. *Pure Appl. Biol.*, 11(1):284-290, (HEC-Y).
22. Farhan Ali Rustamani, Aslam Bukero, Farhad Ali Rustamani, **Shahzad Ali Nahiyoon**, Abdul Aziz Bukero, Dileep Kumar and Chetram (2021). Impact of insecticides on sucking insect pests of cucumber in greenhouse. *Pure Appl. Biol.*, 11(1):324-390, (HEC-Y).

Technical Articles

23. **S. A. Nahiyoon**. Importance of Agricultural Drones in Agriculture, especially in Pakistan. **Agri, Science**, SAU, 20-4-2021.
24. **S. A. Nahiyoon**. The first Pakistani agriculture Drone Specialist. *Newage Agriculture*. 30-11-2019. <https://agriculture.newage.pk/profile/2378/>.
25. **S. A. Nahiyoon**. Drones to the rescue in fight for pest control. *THE EXPRESS TRIBUNE*. December 1, 2019. <https://tribune.com.pk/story/2109581/2-drones-rescue-fight-pest-control/#>.
26. **S. A. Nahiyoon**. Crop-Spraying Drones Tackle Locust Swarms in Pakistan. *The drone Magazine* Wednesday, April 1, 2020. <https://thedronemagazine.com/crop-spraying-drones-tackle-locust-swarms-in-pakistan/>.
27. **S. A. Nahiyoon**. Crop-spraying Drones Fight Locust Swarms in Pakistan. *UAS VISION*. 2019-12-12. <https://www.uasvision.com/2019/12/12/crop-spraying-drones-fight-locust-swarms-in-pakistan/>.
28. **S. A. Nahiyoon**. Use of advanced technology to control the pest problem. *ISSUES KTN News live*, 18-11-2019. <https://www.youtube.com/watch?v=xPSACRH7-Kg&feature=youtu.be>.
29. **S. A. Nahiyoon**. A great festival for Farmers and fisherman's, and its importance at (Sindh museum) Hyderabad in *Daily Ibrat* 27 April 2015.
30. **S. A. Nahiyoon**. Mango orchards and safety measures On 9th march 2015 in *Daily ibrat*.
31. **S. A. Nahiyoon**. A brief introduction about the department of entomology and research projects on 16 march 2015 in *Daily Ibrat*
32. **S. A. Nahiyoon**. Education is a fundamental right of girls (In Sindh Pakistan) on 16th May 2013 in *Daily Ibrat*.
33. **S. A. Nahiyoon**. Environment changes and its related factors and challenges of Sindh growers on 28 Sep 2015. In *Daily Ibrat*.
34. **S. A. Nahiyoon**. Flood and its related problems in Pakistan. (Spate irrigation), 21-12-2015 in *Daily Ibrat*.
35. **S. A. Nahiyoon**. Water, importance in agriculture: on world water day (Better Water Better Jobs) in *daily Ibrat* (2016).
36. **S. A. Nahiyoon**. Mango orchards and safety measures *Monthly Zarai Digest* On may & june 2015 in *Agriculture Digest*.

EXTERNAL EXAMINER AT GRADUATE

1. Sindh Agriculture University, Sub Campus Umarkot, Sindh

Skills and Computer Tools

Computer Skills	• Graphical software (Adobe-Photoshop, Teams)		
Writing Skills	• Research Writing	• Report Writing	• Technical Writing
Laboratory Techniques	• Pesticide Bioassays • Artificial diets • Adjuvant solutions • Active Ingredients • Spray Nozzles	• Micro-application tests • Antidrift techniques • Contact Angel Device • Surface Tension • Atomization Pumps	• Insect Rearing • Formulation • Viscosity findings • Laser size analyzer • Deposition
Research Tools	• EndNote • Origin • Turnitin	• Mendeley Desktop • GraphPad Prism • Statistics	• SPSS • Image-J

Conferences, Congress

October 17, 2016	International conference on UK postgraduate system and China UK collaboration in food agriculture and biotechnology organized by GSCAAS at Beijing China.
Nov 17-18, 2016	International Conference on Nanotechnology application and implications of agrochemicals towards sustainable agriculture and food system at Beijing international convention center at Beijing China.
Nov 24-27, 2018	International Annual Conference of China Plant Protection, and Technology in Xian, Shanxi, China.
JAN 31, 2018	International Annual anniversary of Han He, Plant Protection Technology, regarding advanced unmanned aerial application technology, Wuxi, Jiangsu, China.

Training, Seminars, Webinars

April 17, 2015	Participated in International Day of Farmers struggles for Food security, Peasants rights and Farmers Seeds entitles as “National peasants convention on food and seed” 17th April 2015, Indus Hotel, Hyderabad, organized by SAFWCO (Sindh agricultural, Forestry worker’s coordination organization).
July 26-28, 2016	5th national biocontrol program ceremony Three-day training program in nuclear institute of Agriculture (NIA) Tando jam
March 27, 2015	One day farmers training workshops on (on the management of major plant protection issues in mango orchards) organized by ASLP at SAU Tando jam on
Sep 20, 2016	One-day training program CAAS-Daxing International Cooperation Base for Agriculture Research and Development at Beijing China

Sep 2, 2016	Training on aerial spray application on cotton crop with different drones (UAV) sprayers in Xinjiang Urumqi China.
July 12-15, 2020	Successfully participated one-month National Faculty Development Programme 2020, organized by National Academy of Higher Education (NAHI), Higher Education Commission Islamabad Pakistan.
March 27, 2021	Fundamentals of Project Management, offered by NAHE, HEC in collaboration with Oxon Global from 27 March 2021 to 03 April 2021
March 27, 2021	AN INTERNATIONAL WEBINAR, THE NATURE OF A CYST NEMATODE POPULATION SUPPRESSION, offered by The Islamia University of Bahawalpur, Pakistan 2021

Symposium, and Invited Talks

March 02-04, 2016	Symposium: 5th international symposium on pesticide and environmental safety at Beijing China.
March 04-06, 2016	Workshop: 4 th international workshop of Plant Protection machinery and application techniques Beijing China
Sep 5, 2018	Workshop: World Water day (Better water, better jobs) jointly organized by at Sindh Agriculture University, TandoJam, Pakistan, 70060 and international labour organization (ILO).
June 8, 2013	Workshop: Integrated Pest Management in cotton crop, National productivity organization, Ministry of industries, Govt. of Pakistan, in collaboration with Sindh Agriculture University, TandoJam.
Sep 14, 2016	Symposium: International Symposium of Camel Management and Reproduction at Sindh Agriculture University Tandojam.
Nov 21, 2016	Workshop: Pak-China international workshop on agriculture technology, at SAU, Hyderabad Sindh, Pakistan.
Sep 2, 2016	Invited Talks: Training on aerial spray application on cotton crop with different drones (UAV)

Languages and Communication Skills

English	(Professional)
Urdu	(Native)
Sindhi	(Native)
Chinese	(Basic)

- I have gained good communication skills through previous work experience and cooperation with various national and international research groups during my doctoral degree.
- I also have skills in teaching and supervising research groups.

Memberships and Social Activities

2019-2021	Joint Sectary: Entomological Society of Sindh (ESS)
2021	Editorial Board Member: E-NEWSLETTER, Faculty of Crop Protection, SAU Tandojam
April 2021	Social Activity- One Day Insect Painting and Display Program Organized by ESS, at Department of Entomology, Sindh Agriculture University Tandojam, Sindh, Pakistan.

Research Interests

- I am interested in a research project of use of advanced atomization systems, reduce pesticide dosage, increased pesticide efficiency, related aerial applications by agricultural drones.
- To understand the ecology of major insect pest To identify pesticide-associated problem in field based operations.
- Identification and development of insect attractants for IPM systems
- Management of cucurbit fruitfly

- Control release application of insect pheromones
- To find the effect of advanced aerial applications 2020-2023 in different crops.
- To determine the effect of new adjuvants with different pesticides on aerial spray applications
- To determine the biocidal radiuses of different pesticides using agricultural drones
- Biological vs Chemical control of different agricultural pests

References

Prof. Dr. Yuan Huizhu

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