

Dr. Syed Aizaz Ali Shah

Ph.D. Zoology

Quaid-i-Azam University



Cell: 0092-333-4132812

Email: zzooologist@gmail.com | saashah@bs.qau.edu.pk

Career Objective

A dedicated and compassionate social work professional with a Ph.D. and hands-on experience in humanitarian projects, public health initiatives, community mobilization, and academic teaching. Committed to improving the well-being of vulnerable communities through evidence-based interventions, health education, capacity building, and sustainable development programs. Possessing strong communication, organizational, and teamwork skills, I aspire to contribute to national and international organizations by promoting social welfare, public health, and community empowerment while upholding the highest standards of professionalism and integrity.

Personal Information

Father Name: Syed Abu Ali Shah
CNIC: 16101-8346375-1
Nationality: Pakistani
Address: Mohallah Saidan, Village & PO Gujrat, Tehsil & District Mardan.

Social and Professional Activities

Social Organizer

Project: Provision of Emergency Nutrition Services to IDPs and Returnees in Tehsil Sarwakai, South Waziristan

Duration: May–December 2016

Funder: UNOCHA

Biosafety and Biosecurity Training

National Institute of Health (NIH), February 2019

Biorisk Management Training

Relief International, February 2016

Voluntary Blood Donor

Pakistan Thalassaemia Welfare Society

Academic Experience

- One and half year teaching experience as Assistant Professor (Visiting)
Department of Zoology
Abdul Wali Khan University, Mardan
Semesters: Fall 2023, Spring & Fall 2024
- One semester teaching experience as Assistant Professor (Visiting)
Department of Zoology
Bacha Khan University Charsadda
Semesters: Spring 2025

- One semester teaching experience as Assistant Professor (Contract based)
Department of Zoology
Bacha Khan University Charsadda
Semesters: Fall 2025

Additional Duties at Department of Zoology
Bacha Khan University Charsadda

- LMS Incharge
- Cocurricular activities Incharge
- Timetable Incharge

Academic & Professional Qualification

Ph-D in Zoology

Year of completion: 2024
Passing division: First
Institute: Quaid-I Azam University, Islamabad

Thesis Title:

Research Area: Prevalence of Avian Coccidiosis in Peshawar Khyber Pakhtunkhwa, Pakistan: its control using medicinal herbs and Iron Nanoparticles of *Verbena officinalis* including *in-silico* molecular docking

M.Phil in Zoology (Parasitology)

Year of completion: 2014
Passing division: First
Institute: Quaid-I Azam University, Islamabad

Thesis Title:

Morphological characterization and biological control of *Alitropus typus* (Fish Parasite)

BS in Zoology (16 year education)

Year of completion: 2012
Passing division: First
Institute: Islamia College University, Peshawar

Thesis Title:

Hormonal profile of infertile females in Khyber Pakhtunkhwa, Pakistan

Intermedite Certificate (Pre-medical)

Year of completion: 2008
Passing division: First
Institute: Board of Intermediate Secondary Education, Peshawar

Secondary School Certificate (Science)

Year of completion: 2006
Passing division: First
Institute: Board of Intermediate Secondary Education, Peshawar

Accepted Publications

- Occurrence and demographic distribution of leishmaniasis from KP, Pakistan. Journal of Population therapeutics and Clinical Pharmacology. 2024, 31(7).
- Characterization and bioactivities of *M. arvensis*, *V. officinalis* and *P. glabrum*: In-silico

modeling of *V. officinalis* as a potential drug source. Saudi Journal of Biological Sciences, 2023, 103646. IF: 4.052

- Saccharification of agricultural lignocellulosic feed stocks by endogenous and symbiotic cellulases from the subterranean termites. Biocatalysis and Agricultural Biotechnology, 2022, 39, 102265. IF: 0.636
- Molecular characterization and genetic diversity of cutaneous leishmaniasis from north eastern Pakistan. Acta Tropica, 2021. 221:105964. IF: 3.22
- Spatiotemporal patterns of cutaneous leishmaniasis in the district Upper and Lower Dir, Khyber Pakhtunkhwa, Pakistan: A GIS-based spatial approaches. Acta Tropica, 2021.217: 105861. IF: 3.22
- Characterization and Biological Control of *Alitropus* typus: Agidae. *Entomological Research*, 2017. 47, 352-365. IF: 1.358
- In-vitro evaluation of the anti-leishmanial activity of *Euphorbia helioscopia* stem extract in comparison with synthetic drug amphotericin b. Asian Journal of Natural & Applied Sciences, 2015.
- Analyzing the genetic variability of rice weevil, *Sitophilus oryzae* (Coleoptera; Curculionidae) in different geographic locations of district Charsadda 2018, Khyber Pakhtunkhwa (KP), Pakistan. Journal of Entomology and Zoology Studies 2018; 6(3): 1117-1121
- In-vitro anti-leishmanial activity of *Polygonum glabrum* stem extract on *Leishmania tropica* (kwh23) strain. Journal of Advances in Biology & Biotechnology, 2015. 3(1) 2394-1081.
- Active sites and potential inhibitors prediction for nonstructural 4a protein of dengue virus. International Journal of Computational Bioinformatics and In-silico Modeling, 2014. 3(2): 340-346.

Publications in process

- Phyto-synthesis and characterization of Iron nanoparticles of *Verbena officinalis* and its biological activity.
- Anticoccidial activity of *V. officinalis* ' fractions and prediction of available natural compounds as inhibitors of *Eimeria tenella* through molecular docking.
- Prevalence of Avian Coccidiosis and its Associated Risk Factors in District Peshawar KP, Pakistan.

Workshop & Seminars

- **One day seminar on “Mushroom Industry in Pakistan: A Potential Solution to Food Shortages and its role in economic growth”**
Date: 25 November, 2025 Venue: Bacha Khan University Charsadda Role: Participant
- **Observance of World Diabetes Day**

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| Date: 14 November, 2025 | Venue: Bacha Khan University Charsadda | Role: Organizer |
| • Observance of World Snow Leopard Day | | |
| Date: 23 October, 2025 | Venue: Bacha Khan University Charsadda | Role: Organizer |
| • <i>International Conference & Workshop on “Dengue infection an emerging threat due to recent floods emergency and climate change; Are we prepared ?”</i> | | |
| Date: 14-15 November, 2022 | Venue: Quaid I Azam University Islamabad | Role: Organizer |
| • <i>International Conference & Workshop on “Dengue infection in Pakistan and its controlling strategies”</i> | | |
| Date: 17-18 December, 2022 | Venue: Quaid I Azam University Islamabad | Role: Organizer |
| • <i>One Health Conference</i> | | |
| Date: 13-15 November, 2017 | Venue: U-VAS Lahore | Role: Participant |
| • <i>Voluntary Blood Donation Campaign (by Pak Thalassemia Welfare Society)</i> | | |
| Date: 9 October, 2014 | Venue: Quaid-i-Azam University, Islamabad | Role: Donor |
| • <i>Emerging Trends and Prospects in Fisheries Management</i> | | |
| Date: 12 June, 2013 | Venue: Punjab Fisheries Department, Chashma | Role: Participant |
| • <i>Preservation and Control of Dengue Virus</i> | | |
| Date: 5-8 November, 2012 | Venue: GC University, Lahore | Role: Participant |
| • <i>Public Health Campaign (by Asian Medical Students Association Pakistan)</i> | | |
| Date: 16 March, 2012 | Venue: Islamia College, Peshawar | Role: Participant |

Computer and Analytical Skills

- Microsoft Office Suite
- Scientific Writing and Proofreading
- Internet Research
- Origin
- ChemDraw
- Probit Analysis
- Biostatistics
- Data Analysis and Interpretation

Scientific Skills

Molecular Biology Techniques

- DNA Extraction
- PCR
- Gel Electrophoresis
- Gel Documentation

Laboratory Techniques

- UV-Visible Spectroscopy

- FTIR Spectroscopy
- GC-MS
- Column Chromatography
- Thin Layer Chromatography (TLC)
- X-Ray Diffraction (XRD)

Biological Research

- Plant Extraction
- Green Synthesis of Nanoparticles
- Anti-parasitic Bioassays
- Hematology
- Histology
- Biochemical Analysis

Languages

- English (Fluent)
- Urdu (Fluent)
- Pashto (Fluent)

Reading, writing, speaking, and comprehension.