



Maha Saeed

Date of birth: 16/07/2000

Place of birth: Toba Tek Singh,
Pakistan

Nationality: Pakistani

Contact

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RESEARCH INTEREST

Academic and Research focus

Passionate Zoologist with an MPhil and expertise in Animal Physiology, Ecology, and Biodiversity. Experienced in experimental design, statistical analysis (SPSS), and scientific writing. Dedicated to understanding organismal health and ecosystem dynamics to address biological challenges. Committed to contributing to sustainable biological research and conservation efforts.

WORK EXPERIENCE

Self employed Wah cant

Private Tutor

31/07/2025 - Current

- Delivered specialized one-to-one home tuition in Biology and Chemistry to A-Level students, focusing on exam preparation and concept clarity.

University of Agriculture Faisalabad

Research Assistantship

13/10/2023 - 09/11/2025

Collaborated with my **supervisor** to mentor undergraduate students in laboratory techniques and research activities.

Conducted experiments on Black Soldier Fly (*Hermetia illucens*) larvae and evaluated antioxidant activity in quail.

- Applied theoretical knowledge to practical research, developing hands-on skills in experimental design, data analysis, and sustainable feed development.

National College for Women Toba Tek Singh, Pakistan

Volunteer Biology Instructor

01/07/2024 - 30/06/2025

- Delivered lectures** on genetics, ecology, and physiology for intermediate-level biology students.
- Designed and **managed course-work**, ensuring improved class engagement and academic performance.
- Balanced teaching with MPhil research**, demonstrating strong time management and dedication.
- Tutored a 10th-grade student in Chemistry and Physics, strengthening core concepts and exam performance through focused session.

National School System (Boys) Toba Tek Singh, Pakistan

Volunteer Science Teacher

01/04/2023 - 30/05/2024

- Developed weekly lesson plans and laboratory sessions in **Biology** to over 50 secondary school students.
- Assessed **student performance** and provided individual mentorship, improving class engagement and learning outcomes.
- Managed **classroom dynamics** and fostered an interactive learning environment to enhance students' critical thinking and problem-solving skills.

EDUCATION & TRAINING

02/10/2023 - 11/11/2025 Faisalabad

● **M.Phil. Zoology** University of Agriculture

Evaluated insect-based diets (*Hermetia illucens*) as a sustainable protein source for improving poultry growth performance and immune response.

Conducted a feeding trial using a Completely Randomized Design (CRD) and performed enzymatic assays on liver and breast muscle tissues.

- Analyzed data using Tukey's HSD test ($p < 0.05$) with Statistix 8.1 and SPSS.

Final grade: CGPA : 3.47 out of 4 | **Thesis:** EFFECTS OF SYNTHETIC AND PROTEIN RICH BLACK SOLIDIER FLY LARVAE (BSF) ON GROWTH PERFORMANCE AND ANTI-OXIDANT ENZYMATIC ACTIVITY OF COMMON QUAIL (COUTURNIX COUTURNIX).

02/09/2019 - 21/07/2023 Faisalabad, Pakistan

● **Bachelor of Science in Zoology** University of Agriculture Faisalabad

- **Final Year Project:** Conducted a comprehensive technical report on the "**Biochemical and Pharmacological Activities of Esculetin**" which formed the basis of a published book chapter.
- **Key Coursework:** Molecular Biology, Biochemistry, Animal Physiology, Aquaculture, Behavioral ecology, Statistics.

Final grade: CGPA : 3.51 out of 4

PUBLICATIONS

2025

● **Biological and Pharmacological activities of Esculetin**

Saeed, M., Ghaffar, M., Sohail, F., Akram, A., Fatima, H., & Fatima, E. (2025). Biological and Pharmacological activities of Esculetin. In **Medicinal Plants and Aromatics: A Holistic Health Perspective** (pp. 80-84). Unique Scientific Publishers.

VOLUNTEERING

● **Current**

● **Volunteering & Leadership**

Member – AIESEC

Registered Volunteer – UNV Online

Community Member – Million Smiles

HONOURS AND AWARDS

● **HEC Undergraduate Scholarship**

2019 - 2023

Awarded by the Higher Education Commission of Pakistan for sustained academic excellence throughout undergraduate studies.

CONFERENCES & SEMINARS

● **Seminars**

- Seminar on Entomopathogens as Biocontrol Agents in Crop Protection – University of Agriculture, Faisalabad
- 1st Pakistan Young Physiologists Symposium, Government College University, Faisalabad, Pakistan
- Methods and Standards of Crop Pest Management in China and Pakistan (Online).

LANGUAGE SKILLS

MOTHER TONGUE(S): Urdu

OTHER LANGUAGE(S):

English

Listening B2

Reading B2

Writing B2

Spoken production B2

Spoken interaction B2

SKILLS AND EXPERTISE

● Digital Skills

Microsoft Office (Word , Excel and Power Point) IBM Statistical package for Sciences (SPSS), Endnote, Minitab and Good Communication and Writing Skills.

Graphic Design: Adobe Photoshop, Corel Draw (Basic)

CERTIFICATIONS

● Courses

IELTS Listening and Speaking Sections Skills Mastery, University of California, Irvine

Link <https://coursera.org/share/44dd25aa12b601a1cbc322c260cc9e1e>

● Computer Applications and Graphic Design

- *Al-Syed Computer College, Lahore, Pakistan.*

- **Focus:** Proficient in Microsoft Word for technical documentation and Adobe Photoshop for scientific illustration, poster design, and visual data presentation.

- **Grade:** A+

RECOMMENDATIONS

● Dr. Muhammad Sajid Abdullah Associate Professor

University of Agriculture ,Faisalabad

Email drsajid@uaf.edu.pk | **Phone** +92 419200161

● Dr. Muhammad Umar Ijaz Assistant Professor

HEC approved Supervisor, Department of Zoology, University of Agriculture ,Faisalabad

Email umar.ijaz@uaf.edu.pk | **Phone** +92 3226246335

● Dr. Khalid Abbas Associate Professor, University of Agriculture ,Faisalabad

Studied cellular and molecular mechanisms, including DNA/RNA structure, gene expression, cell signaling, and cellular functions. Gained practical understanding of processes underlying animal physiology and molecular regulation.

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