



Aswad Khan

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ABOUT ME

TEFL-certified educator and biotechnology graduate with teaching, research, and laboratory experience across academic and public-sector institutions. IELTS Academic certified with strong communication, mentoring, and instructional skills. Published researcher in immunology and computational vaccine design with experience in scientific writing, student engagement, and interdisciplinary collaboration. Passionate about education sector development, leadership training, and institutional strengthening initiatives.

EDUCATION AND TRAINING

2021 – 2023 Islamabad, Pakistan

MASTER OF SCIENCE IN BIOTECHNOLOGY International Islamic University

Website <https://www.iiu.edu.pk/>

2014 – 2018 Faisalabad, Pakistan

BACHELOR OF SCIENCE IN BIOCHEMISTRY Government College University

Website <https://gcuf.edu.pk/>

2012 – 2014 Kamalia, Pakistan

HIGHER SECONDARY SCHOOL CERTIFICATE Government P.S.T College

Field of study Bio, Che, Phy

WORK EXPERIENCE

SCIENTIFIC LABORATORY TECHNICIAN – AZ LIFE CARE LABORATORY – 2024 – 2025 – FAISALABAD, PAKISTAN

- Prepared and set up diagnostic tests in hematology, microbiology, and clinical chemistry. Maintained laboratory equipment and ensured safe, organized working conditions in compliance with biosafety protocols. Assisted in training junior staff and supported routine quality control procedures.

RESEARCH ASSISTANT – NATIONAL INSTITUTE OF HEALTH – 2022 – 2023 – ISLAMABAD, PAKISTAN

- MSc thesis on molecular, biochemical & immunological characterization of polyvalent snake antivenom (in vitro/ in vivo). Performed SDS-PAGE, Western blotting & ELISA for protein profiling, antigen-antibody interaction analysis & efficacy assessment. Involved in experimental design, equine plasma purification, data analysis & reporting. Published science communication article on snakebite envenoming in Pakistan, promoting evidence-based treatment & awareness of NIH Pakistan antivenom.

UNIVERSITY TEACHING ASSISTANT – ARID AGRICULTURE UNIVERSITY – 2022 – 2024 – RAWALPINDI, PAKISTAN

- Served as a part-time instructor in the Departments of Applied Microbiology and Biochemistry, supporting undergraduate teaching through laboratory instruction, practical demonstrations, and student mentoring. Assisted in supervising 30+ undergraduate thesis and internship projects, prepared course-related laboratory materials, maintained laboratory resources, and ensured adherence to safety and academic standards.

BIOLOGY TEACHER SECONDARY SCHOOL – RAVIAN SCIENCE AND CADET HIGH SCHOOL – 2018 – 2021 – KAMALIA, PAKISTAN

- Planned and delivered curriculum-aligned senior Biology lessons, developing lesson plans, worksheets, and assessments. Managed classroom behavior and ensured an effective learning environment. Monitored student

progress through tests and assignments. Promoted critical thinking through inquiry-based and STEM activities. Maintained regular parent communication to support student development.

MEDICAL LABORATORY ASSISTANT – TEHSIL HEADQUARTERS HOSPITAL – 2016 – 2016 – KAMALIA, PAKISTAN

- Had practical experience in learning and executing clinical lab testing. Collaborated with medical staff and conducted research work related to cancer immunology.

SKILLS

Experimental Setup & Practical Demonstration | Laboratory Instruction & Technical Support | STEAM Laboratory Familiarity | Team Collaboration & Laboratory Coordination | Scientific Workflow Support | In vivo and in vitro experimental research | Python (basic) for biological data analysis | Data interpretation and visualization | Curriculum planning | Classroom management & discipline control | Student assessment & performance tracking | Critical Analysis and Problem Solving | Continuous evaluation & feedback | Digital Classroom Tools (Google Classroom, Zoom, Microsoft Teams) | Leadership & Mentoring | Education Program Support | Training & Facilitation | Public Sector Coordination | Workshop & Seminar Coordination

CERTIFICATIONS

Teacher Record TEFL Professional Institute, 2026

TEFL (Teaching English as a Foreign Language)

- Completed a 120-hour TEFL certification with Distinction, covering lesson planning, classroom management, ESL teaching methodologies, student engagement, and language assessment. Gained practical skills for teaching English as a foreign language in diverse classroom settings.

Link <https://www.dropbox.com/scl/fi/ra6lpwwgdem5cgunb5gis/Teaching-Certificate.pdf?rlkey=iovmoojmmcdzm167p55jhwws&st=nx54b5fe&dl=0>

British Council, 02/01/2026

IELTS Academic

- International English Language Testing System (IELTS) Academic Test Report Form showing overall band score 6.5 (CEFR Level B2), including Listening, Reading, Writing, and Speaking 6.5. Issued for English language proficiency verification.

Link https://www.dropbox.com/scl/fi/r7coon3s4xx24pui2r1j2/IELTS_Aswad_Khan.pdf?rlkey=9zn3ztz2h3vuncn5zw1lqzqsc&st=i3j2o7z1&dl=0

Comsats University Islamabad, Pakistan, 2026

The Evolution of the Virtual Classroom: Global Trends and Local Realities in Post-Digital Education

- Learned how to adapt global virtual classroom trends to local teaching realities for effective post-digital education.

European Molecular Biology Laboratory (EMBL) in partnership with Merck, 2024

Molecular Biology Techniques: Comprehensive Approaches for Educators and Enthusiasts

- Certificate of completion for the CPD course "Molecular Biology Techniques: Comprehensive Approaches for Educators and Enthusiasts," focused on modern molecular biology techniques and their application in teaching and laboratory environments through lectures, practical exercises, and scientific readings.

CONFERENCES AND SEMINARS

2026 University of Guelph, Canada

CPHAZ Annual Symposium (One Health & Public Health)

- Delivered the keynotes focused on One Health, zoonotic diseases, and public health approaches, with emphasis on disease ecology, surveillance systems, and global health challenges.

Link <https://www.cphaz.uoguelph.ca/>

- Delivered an oral presentation on computational design of a multiepitope vaccine targeting *Staphylococcus lugdunensis*, focusing on immunoinformatics and vaccine development strategies.

Link <https://www.azsp.org/registration-form-icaz-2025>

● HONOURS AND AWARDS

2025

Certificate of Excellence – AI in Drug Discovery Webinar – RX Connect PK

2023

Prime Minister's Youth Laptop Scheme Award – Higher Education Commission of Pakistan

2014

Punjab Education Endowment Fund (PEEF) Scholarship – Government of Punjab Pakistan

● PUBLICATIONS

2026

[Diverse Physical Exercise Interventions and Their Impact on Individuals with Multiple Sclerosis: A Literature Review](#)

Authors: Aleem Munir, Aswad Khan, Mona Hamoud AlSheikh, Abdulmonem AlSharidah, Muhammad Arshad, Abdulla Almatter, Amara Ilyas, Asim Niaz, Abir Elsayed Ahmed Hegazy, Syed Hamid Habib, Mirza Obaid Baig, Eman Nassim Ali, Turki Abualait, Shahid Bashir | **Journal Name:** Journal of Disability Research | **Volume, Issue and Pages:** Volume 5, Pages 1-12 | **Publisher:** Journal of Disability Research

2024

[Rational Computational Design and Development of an Immunogenic Multiepitope Vaccine Incorporating Transmembrane Proteins of Staphylococcus lugdunensis](#)

Naveed, M., Khan, A. et al. (2024). Rational computational design and development of an immunogenic multiepitope vaccine... International Immunopharmacology, 143, 113345.

Authors: Naveed, M., Khan, A., et al. | **Journal Name:** International Immunopharmacology | **Volume, Issue and Pages:** Vol. 143, 113345 | **Publisher:** Elsevier B.V.

● VOLUNTEERING

2026 Cape Town, South Africa

18th World Congress on Public Health (WCPH 2026) – Abstract Reviewer

- Reviewed 10 abstracts for the 18th World Congress on Public Health, helping ensure high quality and fair representation in global research. A rewarding way to support learning and collaboration in public health.

● RECOMMENDATIONS

Bashir Ahmad Associate Professor, Department of Biotechnology

- I have known Aswad for over two years as his thesis supervisor and instructor; he is a dedicated, curious, and collaborative researcher who would be a wonderful addition to any academic teaching team.

Email bashir.ahmad@iiu.edu.pk | Phone (+92) 92519019737

Amina Najam Principal Scientific Officer

- I have known Aswad for nearly a year as his co-supervisor at NIH; he is a meticulous and impact-driven researcher who would be a joy to have in any teaching or academic role.

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