

Fatima Bilal Hammoudeh

Molecular and Cellular Biology Student

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Profile

Second-year Master's student in Human Molecular Diagnostics, with a passion for biology education and student engagement. Combines a strong background in research with excellent analytical, problem-solving, and communication skills. Enthusiastic about making complex scientific concepts accessible and inspiring curiosity in young learners.

Education

Lebanese University

Master of science in Human Molecular Diagnostic (M2)

CGPA: 84.98/100 "VERY GOOD" Rank: 2nd in my cohort.

Sep. 2024 – Present

Tripoli, Lebanon

Lebanese University

Master of science in Molecular and Cellular Biology (M1)

CGPA: 91.42 /100 "EXCELLENT" . Rank: 1st in my cohort of 45 students.

Sep. 2023 – July 2024

Tripoli, Lebanon

Lebanese University

Bachelor of Science in Biology

Sep. 2020 – July 2023

Tripoli, Lebanon

Deir Ammar Technical Institute

Higher Technical diploma TSI

Sep. 2023

Tripoli, Lebanon

Iman High School

Lebanese Baccalaureate, Life Science

June 2018

Tripoli, Lebanon

Experience

June. 2023 – Nov 2023

Tripoli, Lebanon

Teacher | Ana Aqraa Association, NGO

- Provided academic support to underprivileged and refugee students in literacy, numeracy, and language skills within inclusive educational settings.
- Led lesson planning, classroom management, and instructional adaptation to meet the diverse learning needs of students.
- Delivered individualized and small group instruction to reinforce learning objectives, ensuring student engagement and comprehension.
- Monitored student behavior and participation, offering emotional and social support to promote a safe and supportive learning environment.
- Collected and organized student performance data, contributing to progress tracking and reporting for educational planning and donor reporting.

Jan. 2023– Nov 2023

Remote work

Business Development Agent | Jahani and Associates

- Proactively reaching out to individuals worldwide and engaging in compelling conversations, encouraging them to collaborate with the company
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Jan. 2022– present

Biology Tutor | Self Employed

- Instructing university-level students in advanced biology concepts, including cell biology, genetics, and immunology
- Breaking down complex topics into simplified, relatable explanations to enhance student understanding and engagement
- Designing customized study plans and visual aids to support diverse learning styles and academic needs

Ielts & SAT Tutor | Self Employed

Jan. 2022– present

- Providing individualized guidance and support to help students overcome academic difficulties and reach their goals
- Developing assessment tools (eg. rubrics, quizzes) to evaluate student mastery of material and time management during tests

Internships

April 2025 – present

Ras Maska Al Koura North Lebanon

Molecular Laboratory Internship, Haykal Hospital

- designing experiments and conducted laboratory tests to explore research hypotheses
- coping with various areas of medicine, including genetics, cancerology, immunology, and blood diseases
- working in different techniques of PCR, ELISA, DNA/ RNA Extractions, Immuno Fluorescence...

June. 2024 – Aug 2024

Tripoli, Lebanon

Rotation at Pathology and Cytology Lab| Dr Nawaf Jurdi Laboratory

- was exposed to all aspects of surgical pathology (manual processing, embedding, paraffin blocks sectioning, staining, cover-slipping and labeling), observation of the gross examination of surgical specimens, and the preparation and staining of cytology specimens

Workshops & Training

June. 2024 – Aug 2024

Beirut, Lebanon

Essentials of Clinical Trials| AUB Clinical Research Institute (CRI)

- Participated in a professional workshop covering key concepts and methodologies in clinical trial design, ethics, and implementation

June. 2023
Tripoli, Lebanon

Literacy and Numeracy Teaching Workshop – Ana Aqra Association, Beirut, Lebanon

- Completed a comprehensive training workshop focused on developing essential teaching skills for delivering basic literacy and numeracy education to children. The training emphasized practical classroom techniques, lesson planning, effective communication, student engagement strategies, and adapting teaching methods to diverse learning needs. It also covered skills in assessing student progress, fostering a positive learning environment, and building rapport with young learners to support their educational development.

Teaching & Lab Skills

- Teach basic biology lab techniques (e.g., staining, titration, microscopy)
- Demonstrate simplified PCR, electrophoresis, and ELISA concepts
- Guide safe and accurate lab practices for students
- Design age-appropriate, hands-on biology experiments
- Explain complex scientific tools in student-friendly ways
- Encourage critical thinking and scientific inquiry in the classroom

Bioinformatics & Computer Skills

- Familiar with basic bioinformatics tools (e.g., BLAST, NCBI resources)
- Proficient in Microsoft Office (Word, Excel, PowerPoint)
- Able to use biology simulation software and virtual labs
- Experience with data analysis and visualization for teaching purposes
- Comfortable with online teaching platforms (e.g., Google Classroom, Zoom)
- Basic coding knowledge (e.g., Python/R for biology education – optional)

Core Competencies

- Strong **classroom problem-solving** and quick decision-making skills
- **Persistent and patient** in helping students grasp challenging topics
- Highly **adaptable** to diverse learning styles and classroom needs
- Clear and effective **communication** with students, parents, and staff
- Excellent **time management** in lesson planning and classroom activities
- Reliable and **responsible** in maintaining a positive, safe learning environment.

Languages

- Arabic (Native)
- English – *Advanced*
- French – *Proficient*

References

- Ms. Razane abbass, ANA AQRAA Center Coordinator razanne.abbass@gmail.com
- Dr.Sami Zreika Professor in Cancer samizreika@hotmail.com