

Luccia Herrera

Environmental Scientist | Biochemist

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PROFESSIONAL SUMMARY

Environmental scientist with a biochemistry foundation and hands-on experience in field research, data analysis, and scientific reporting. Skilled in site investigations, biodiversity monitoring, and translating field and lab data into clear findings using GIS and standard analytical software. Adept at navigating specialized scientific databases and repositories (Benchling, NCBI, GBIF) and archival sources (Internet Archive, Wayback Machine) to support literature reviews and research, and experienced integrating AI research tools (Claude, Anara) into the research workflow. Seeking to apply this research and analytical skill set to an environmental or sustainability role.

SKILLS

Technical & GIS: GIS / QGIS / ArcGIS, MS Excel, MS Access

Environmental: Environmental Impact Assessment (EIA), biodiversity monitoring, field sampling, site investigations, data analysis

Laboratory: PCR, chromatography, spectrophotometry

EXPERIENCE

Environmental Research Intern (Thesis) | Association for Community and Environment (ACE)

January 2026 – July 2026

- Conducted master's thesis research, "Bat's Role in Crop Pest Management – A Case Study of Olive Crops in the Shouf-Jezzine Geopark Area, Lebanon."
- Analyzed acoustic monitoring data from 8 olive grove sites, comprising over 11,000 processed audio files, to assess bat activity patterns.
- Learned to operate ANABAT software for bat call frequency analysis.
- Cross-referenced results with published studies from Lebanon and the wider Mediterranean region to evaluate land attractiveness as a driver of bat activity and diversity in agricultural landscapes.

Early Researcher | Jouzour Loubnan Association

July 2023 – September 2024; May 2025 – September 2025

- Drafted two field guidelines covering fungarium and herbarium establishment and a seed collection protocol.
- Gathered field data on wild fauna in Lebanon and documented behavioral patterns.
- Compiled detailed protocols for cytogenetics and seed germination.
- Contributed to conservation efforts for seeds endemic to Lebanon.

EDUCATION

Master's in Environmental Sciences and Management | Saint Joseph University

2024 – 2026

Thesis: "Bat's Role in Crop Pest Management – A Case Study of Olive Crops in the Shouf-Jezzine Geopark Area, Lebanon."

Grade: **85/100**

Bachelor's in Biochemistry | Saint Joseph University

2021 – 2024

RELEVANT COURSEWORK

- Geosystem Fundamentals
- Terrestrial and Marine Ecosystems
- Hydrology
- Biodiversity Conservation: From Genes to Ecosystems
- Environment and Health
- Environmental Policy and Strategy
- Urban, Industrial and Agricultural Pollution

LANGUAGES

Arabic (Native) | English (Fluent – UN Level 3) | French (Fluent – DELF B2)