

Yazan Aljerro

PROFILE

M.Sc. COMPUTATIONAL BIOLOGY & BIOINFORMATICS

University of Göttingen

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github.com/yazalj · linkedin.com/in/yazan-aljerro

Computational Biology & Bioinformatics M.Sc. student with a biology foundation and practical experience in bioinformatics, statistical modeling, machine learning, and scientific programming. I build reproducible analyses that preserve uncertainty and make biological evidence easier to inspect, explain, and use.

EXPERIENCE

APR 2026 — PRESENT

Student Assistant — Python Programming Tutor

University of Göttingen

Lead weekly Python tutorials, support course material and assignments, and mentor students through programming and debugging problems.

JUL — AUG 2026

Bioinformatics Intern — Bulk ATAC-seq Analysis

University Medical Center Göttingen

Built a reproducible donor-aware workflow for 10 public mature and memory NK-cell samples using Bash, R, and Python. The workflow covers quality control, alignment, consensus-region counting, differential testing, motif exploration, and genome-browser review. Full statistical results and interpretation are available in the GitHub repository.

SEP 2022 — SEP 2023

Genetics Research Intern

Lebanese American University

Contributed to research involving familial Mediterranean fever and APOE, IL-17, and MTHFR variants, including PCR and DNA-sequencing workflows.

SEP 2022 — JAN 2024

Genetics Tutor

Lebanese American University

Supported students through difficult genetics concepts using structured explanations and problem-solving practice.

JUN 2024 — JUN 2025

Sales Assistant

Al Mahaba Bakery

Customer-facing retail experience requiring reliability, clear communication, and teamwork.

EDUCATION

OCT 2025 — EXPECTED
OCT 2027

M.Sc. Computational Biology & Bioinformatics

University of Göttingen

Graduate study spanning biological data analysis, statistics, machine learning, and computational methods.

SEP 2021 — JUN 2024

B.S. Biology — Honors

Lebanese American University

Dean's Honor List, Fall 2022. Kreidie Family Foundation Scholar.

Selected work

Reproducible research, clear evidence, and careful interpretation.

SELECTED PROJECTS

BIOINFORMATICS

Bulk ATAC-seq: Mature vs Memory NK Cells

github.com/yazalj/bulk-atacseq-mature-memory-nk

Reproducible donor-aware workflow for 10 public samples using FastQC, Bowtie2, SAMtools, MACS3, featureCounts, DESeq2, HOMER, and IGV. 59,186 consensus regions passed filtering. Complete statistical results and interpretation are documented in the repository.

MACHINE LEARNING

Berlin Airbnb Price Prediction

github.com/yazalj/airbnb-price-prediction-berlin

Team project; owned modeling, evaluation, and final summary. Selected log-target random forest: MAE €29.59, RMSE €49.24, and R^2 0.645; 63.2% within €25 and 84.4% within €50. Unseen-host performance was weaker.

STATISTICS IN R

Linear Models for Biological Data

github.com/yazalj/BioData-Linear-Models

Readable R workflows for multiple regression, dummy coding, interactions, assumption diagnostics, and publication-quality effect plots.

TECHNICAL SKILLS

Programming

Python, R, Bash

Bioinformatics

FastQC, Bowtie2, SAMtools, MACS3, featureCounts, DESeq2, HOMER, IGV

Data & machine learning

pandas, scikit-learn, PyTorch, regression, random forests, gradient boosting, model evaluation

Research practice

Reproducible workflows, statistical diagnostics, data visualization, scientific documentation

TEACHING, LEADERSHIP & SERVICE

Acting Vice President

MEDLIFE · Mar 2023 — Mar 2024

Secretary

Chess Club · Sep 2022 — Jan 2023

COVID-19 data collection

LeMSIC · Apr — May 2022

LANGUAGES & CERTIFICATIONS

Languages Arabic — native/bilingual · English — native/bilingual
Proteintech · Mar 2025

Certifications IELTS · Sep 2024 · CV Writing Workshop,