

# Sample Student- Biology (Biochemistry)

Fitchburg, MA

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## Education

### Fitchburg State University, Fitchburg, MA

Expected May 2025

Bachelor of Science in Biology, Concentration in Biochemistry

Cumulative GPA : 3.50/ 4.00

**Relevant coursework:** Organic Chemistry I and II, Biochemistry I and II, Molecular Biology, Genetics, Physical Chemistry, Analytical Chemistry

**Relevant techniques learned in courses:** IR and NMR spectroscopy; chromatography; titration; synthesis, separation, and purification of simple organic compounds DNA isolation by PCR; DNA and protein synthesis

## Skills

**Data analysis:** Skilled in data interpretation and analysis using software such as SPSS, Minitab and Excel.

**Language:** Spanish (intermediate)

**Technology:** Minitab, SPSS, Excel

## Research Experience

### Fitchburg State University, Fitchburg, MA

Student Researcher

September – December 2023

Independent Study

- Contributed to a research project focusing on the development and optimization of Polymerase Chain Reaction (PCR) assays for the detection of the malaria parasite's DNA in blood samples for malaria diagnosis
- Conducted PCR experiments, including primer design, nucleic acid extraction, and gel electrophoresis analysis
- Analyzed PCR data, including amplification efficiency and Ct values, to assess assay performance
- Collaborated with team members to troubleshoot technical issues and ensure protocol optimization and reproducibility
- Presented results at Fitchburg State Undergraduate Research Conference in April 2024

### UMass Chan Medical School, Worcester, MA

Research Intern

May - August 2023

- Participated in a summer research program focused on investigating protein folding in neurodegenerative diseases
- Conducted literature reviews to support research objectives and identify relevant methodologies
- Analyzed experimental data using statistical techniques
- Collaborated with researchers and peers to refine research protocols and troubleshoot experimental challenges

## Campus Involvement

### Fitchburg State University, Fitchburg, MA

Biology and Chemistry Club Member

September 2022 – Present

- Engaged in discussions, seminars, and workshops related to current topics in biology and chemistry