Alana Gonzalez

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EDUCATION

Grand Valley State University

Bachelor of Science

Major: Chemistry, Emphasis in Biochemistry

Minor: Biology

Allendale, MI

Graduation Date: April 2026

GPA: 3.6

RELEVANT COURSEWORK

• Organic Chemistry

• Criminal Justice

• Anatomy and Physiology

• Cell and Molecular Biology

• Instrumental Analysis

Analytical Chemistry

• Physical Chemistry

• Green Chemistry

Bacterial Physiology

SKILLS & TECHNIQUES

Chemistry/Biochemistry

- Bioinformatics (sequence alignments)
- Agarose gel electrophoresis
- Restriction analysis of DNA
- Western blot
- PCR amplification of DNA
- Bradford and CENTA assays
- SDS PAGE

Forensics

- Scene, impression, and fingerprint photography
- Preliminary serology analysis
- Arson evidence collection
- ELISA
- Latent print analysis using powders, cyanoacrylate fuming, and enhancement chemicals

RELATED EXPERIENCE

Crime Scene Technician Intern

Kent County Sheriff's Department, Scientific Support Unit

January–May 2023 Grand Rapids, MI

- Employed techniques such as crime scene photography, latent print and impression processing, and video enhancement
- Provided evidentiary analysis and digital evidence to law enforcement personnel and authorized agencies

RESEARCH PROJECTS

Latent Fingerprint Processing

Kent County Sheriff's Department

Spring 2024

• Compared the degree of enhancement of types of latent fingerprints using fluorescent chemical genipin on various types of colored paper

Recombinant Expression and Characterization

Fall 2023

of TEM-1 β-lactamase in E.coli

Grand Valley State University

- Isolated and amplified the TEM-1 gene using PCR, ligation into pET-28a recombinant plasmid, and induction by engineered T7 tag
- Determined success through Western blot, SDS-PAGE, and kinetic assays