

Alana Gonzalez

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EDUCATION

Grand Valley State University
Bachelor of Science Expected
Major: Chemistry, Emphasis in Biochemistry
Minor: Biology

Allendale, MI
Graduation Date: December 2018
GPA: 3.6

RELEVANT COURSEWORK

- Organic Chemistry
- Criminal Justice
- Gross Human Anatomy
- Cell and Molecular Biology
- Human Physiology
- Physical Chemistry
- Forensic Analysis
- Quantitative Analysis
- Advanced Genetics

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 2018
Grand Rapids, MI

- Assisted unit by practicing various techniques such as crime scene photography, latent print and impression processing, and video enhancement

RESEARCH PROJECTS

Latent Fingerprint Processing
Kent County Sheriff's Department

Spring 2017

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

Recombinant Expression and Characterization
*of TEM-1 β -lactamase in *E.coli**
Grand Valley State University

Fall 2015

Allendale, MI

- 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