Elizabeth McWellen

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College address: Blacksburg, VA | Permanent address: Richmond, VA

**EDUCATION**

**Bachelor of Science, Biology**, May 20YY

**Minor: Chemistry, emphases in Microbiology and Entomology**

Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, Virginia

GPA: 3.3/4.0 | Major GPA: 3.8/4.0

**COURSEWORK**

Biological Statistics Immunology

Microbial Genetics Insect Biology

Food Microbiology Medical and Veterinary Entomology

Pathogenic Bacteriology Insect Pest Management

**LAB SKILLS**

Gram Stain Procedure Techniques for Bacterial Identification

Cultured Bacterial and Fungal Colonies Tests for Antibiotic Resistant Bacteria

Media Preparation Dilutions

pH Calibration Aseptic Technique

Potentiometric Calibration Methods for Nematode Staining

Calorimetry Maintenance of Laboratory Notebooks

### COMPUTER SKILLS

###  Windows, Mathmatica, Microsoft Excel

**RESEARCH EXPERIENCE**

**Lab Support Technician**  | June 20YY-present | International Research and Development, Virginia Tech

* Conduct research on spores of *Metarhizium anisopliae* for control of locusts in Sub-Saharan Africa.
* Evaluate production processes utilizing hemacytometer and CFU contx.
* Work on methods to decrease water activity to enhance germination at lower humidities.
* Assist in bioassays to determine insects’ mortality and virulence of insect pathogen.

**Laboratory Assistant**  | Jan-May 20YY | Entomology Department, Virginia Tech

* Researched the development and fecundity of *Steinernema carpocapsae* nematodes when exposed to the bacterium *Xenorhabdus nematophilus* using in vitro techniques.
* Assisted in experiment to determine response of plant pathogenic nematodes to *X nematophilus.*
* Applied predatory nematodes for control of Tomato Root Knot nematode.
* Aided in pesticide trial for control of Japanese beetle grubs.

**Undergraduate Research**, | Aug-Dec 20YY | Entomology Department, Virginia Tech

* Worked to develop a viopesticide for control of a plant pathogenic nematode using bacteria *Xenorhabdus borierii.*
* Responsible for general set-up and management of experiments, and collection and analysis of data.

**LEADERSHIP AND ACTIVITIES**

Alpha Chi Omega Women’s Fraternity, 20XX-present

* **Senior Class Representative** to Chapter Relations and Standards Board, 20XY-20XZ

Virginia Tech Tae Kwon Do Club, 20XX-present