

## Elle Winfield

Phone: 804-704-0916

Email: [winfieldelle16@gmail.com](mailto:winfieldelle16@gmail.com)

LinkedIn: <https://www.linkedin.com/in/elle-j-winfield>

### Education

2020-2022

**M.Sc.** Forensic Science (DNA Analysis), George Mason University, Fairfax, VA

*Thesis: Effects of Quicklime and Charring on Insect Colonization and Scavenging of Remains*

2016-2020

**B.Sc. Honors** Biological Science, Hampton University, Hampton, VA

### Relevant Coursework

Organismal Biology  
Parasitology  
Medical Entomology  
Microbiology

Histology  
Immunology  
Advanced DNA Analysis  
Molecular Biology

### Research Experience

2022-present

**Post Master's Research Fellowship**, Silver Spring, MD

Walter Reed Army Institute of Research (WRAIR); Entomology Branch

Advisors: Dr. Elizabeth Wanja, Dr. Andrezza Campos Chagas

- Research Projects:

- Larvicidal Activities of Yeast-Encapsulated Orange and Spearmint Oil against Culex and Aedes species*

- Biophysical Interaction of Aedes and Culex Salivary Compounds with Structural and Non-Structural Protein 1 (NS1) from Multiple Arboviruses*

2020-2022

**Graduate Thesis** Fairfax, VA

George Mason University Forensic Science Research and Training Laboratory (Body Farm)

Advisors: Dr. Anthony Falsetti, Dr. Rebecca Forkner

- Research Project:

- Effects of Quicklime and Charring on Insect Colonization and Scavenging of Remains*

2019-2020

**Field Research Assistant** Hampton, VA

Hampton University

Advisor: Dr. Shawn T. Dash

- Research Project:

- The Ants of Virginia*

### Scientific Communication

**Oral Presentation**

Winfield, E. "Effects of Quicklime and Charring on Insect Colonization and Scavenging of Remains"

*Mid-Atlantic Association of Forensic Scientists, Newport News, VA. 2022*

**Poster Presentations**

**Winfield, E.,** Clark, J.Y., Downer, D., et.al. "Larvicidal Activities of Yeast-Encapsulated Orange and Spearmint Oil against Culex and Aedes species"

*WRAIR One-Health Research Symposium, Silver Spring, MD. 2023.*

*American Society of Tropical Medicine and Hygiene, Chicago, IL. 2023.*

## Mentoring

---

May 2023-present

“The Bridge-A Research and Mentorship Program”  
(B-RAMP) Laboratory Mentor (Ms. Dinelle Downer)

## Trainings/Certifications

---

2022-present

- American Association for Laboratory Animal Science (AALAS) certified
- Collaborative Institutional Training Initiative (CITI) certified
- BSL-2
- BSL-3
- HIPPA

## Skills

---

Laboratory Skills

Manual and Organic DNA Extraction  
Protein Analysis  
Insect Husbandry  
Insect collection (field)  
Taxonomic Identification  
Research Animal Handling  
Bacterial Culturing  
Mosquito Injection  
Mosquito Dissection

Research Skills

Scientific Communication  
Data Analysis  
Experimental Design  
Collaboration  
Managing Research Assistants  
Mentorship