

# Morgan M. Wilson

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## Education

**Virginia Tech:** Blacksburg, VA. Ph.D. Student, Urban Entomology.  
Advisor: Dr. Dini Miller.

**Texas Tech University:** Lubbock, TX. Non-thesis Master Science, Plant & Soil Science.  
Advisor: Dr. Sanjit K. Deb. GPA: 3.2. 2016-2018.

**Virginia Tech:** Blacksburg, VA. Bachelor of Science, Wildlife Science. 2010-2014.

## Professional Experience

**Dodson Urban Pest Management Laboratory at Virginia Tech,** May 2019-Present  
Research Technician

Supervisor: Dr. Dini Miller

- Responsible for supervising and participating in research and extension projects related to urban and structural pest management
- Oversee the design and management of sponsored research projects in the field and laboratory
- Write, edit and finalize proposals and reports for sponsored research
- Engage in extension sponsored education and training for pest management professionals, social workers, and housing management
- Present research results at pest management conferences

**Biotherapeutics Inc.,** October 2018- May 2019

Animal Lab Technician

Supervisor: Victoria Zoccoli-Rodriguez

- Oversaw the production and husbandry of a transgenic mouse colony
- Genotyped and weaned individuals in order to maintain specific lines
- Set up breeding pairs to continue output of research line
- Administered oral treatments for project mice

**Critter Control Operations,** August 2016 – April 2017

Wildlife Removal Specialist

Supervisor: Justin Rosenberger

- Conducted thorough inspections in facilities for wildlife and pest activity
- Trapped and removed multiple species of Virginia wildlife
- Identified entry points and provided building exclusion services to prevent invasion of federally protected wildlife including bats and snakes
- Managed a route for pest control services
- Proactively communicated with clients and provided regular consultations
- Adhered to both Virginia and Federal regulations in regards to safe wildlife handling

- Utilized integrated pest management procedures to control insects and rodents using safe application methods in commercial buildings, single-family homes and multi-family housing

**Brookhill Farm Inc.,** November 2015 – July 2016

Horse Care Professional

Supervisor: Madeline Maciel

- Operated farm equipment for manure and seeding management
- Maintained animal records
- Assisted in day to day operations on the farm
- Saw to daily care of horses and clients

**West Virginia University,** April 2015 – July 2015

Cerulean Warbler Research Aid

Supervisor: Dr. Gretchen Nareff

- Conducted avian population surveys in silviculture stands
- Monitored territories and searched for nests in designated spot mapping plots
- Entered point count data and digitized behavioral observations in GIS
- Collected bird habitat data within prism plots

**Tin Mountain Conservation Center,** August 2014 – February 2015

Avian Intern for Resident Bird Study

Supervisor: Dr. Michael Cline

- Designed protocol and wrote technical reports for resident bird study
- Collected winter survival data through mark-recapture methods and point counts
- Captured, banded, and recorded measurements of songbirds and woodpeckers
- Monitored flock winter ranges with GPS tracking and ArcMap
- Planted saplings for a habitat restoration project
- Delivered research presentations to public and Tin Mountain Board of Supervisors
- Led middle-school students on field excursions and gave ecology focused lectures

**Tin Mountain Conservation Center,** June 2014 – August 2014

Avian Intern

Supervisor: Dr. Michael Cline

- Collected data through mark-recapture methods and point counts
- Captured, banded, and recorded body measurements of black-throated blue warbler adults and nestlings
- Assessed the change in habitat by sampling vegetation and analyzing in GIS
- Conducted nest searching in shrubby understory
- Surveyed cold-water fish populations using electroshock
- Sampled and identified macroinvertebrates
- Assisted with stream restoration for trout habitat

## **Presentations**

### *Conferences*

**Wilson, M. M.** & D. M. Miller (2021). Quantification of daily feces production for each bed bug (*Cimex lectularius*) life stage. Student Paper Competition. Virtual 2020 National Conference on Urban Entomology and Invasive Pest Ant Conference. May 2021.

**Wilson, M. M.** (2021). Understanding repellent and pesticide usage for wildlife control professionals. The Virginia Wildlife Damage Management Association Seventh Annual Conference (virtual). March 2021.

**Wilson, M. M.,** D. B. Todd, & D. M. Miller (2020). VT Research Update - Determining the costs of an assessment-based pest management (APM) program for German cockroach control in low-income public housing units. The Virginia Pest Management Association Virtual State Technical Meeting. December 2020.

**Wilson, M. M.** & D. M. Miller (2020). Determining the costs of an assessment-based pest management (APM) program for German cockroach control in low-income public housing units. On-demand 10-minute presentation: Medical, Urban, and Veterinary Entomology. Entomological Society of America Annual Conference. November 2020.

### *Extension outreach/training*

**Wilson, M. M.** & D. M. Miller (2021). How to identify termites in Virginia. Virginia Pest Management Association Virtual Master Technician Workshop: Termites. February 2021.

**Wilson, M. M.** (2020). The cost of bed bug control. North Carolina Pest Management Association Bed Bug Training. November 2020.

**Wilson, M. M.** (2020). Bed bug scenarios in 2020. North Carolina Pest Management Association Bed Bug Training. November 2020.

**Wilson, M. M.** & D. M. Miller (2020). Determining the costs of an assessment-based pest management (APM) program for German cockroach control in low-income public housing units. Virtual Training for Smart Pest Control. Smart Pest Control, Phoenix, AZ. October 2020.

## **Grants**

- Pi Chi Omega Founders Endowment Scholarship (\$2,000). 2021.
- Internal Graduate Research Grant Competition (\$700). 2021.
- Virginia Pest Management Association Fall 2020 Scholarship (\$1,500). 2020.
- Dow AgroScience Graduate Fellowship Endowment (\$900). 2018.

## **Certifications**

- Virginia Department of Agriculture and Consumer Services Commercial Pesticide Applicator Certification Category 7-C – Fumigation (non-agriculture). 2020-Present.
- Virginia Department of Agriculture and Consumer Services Commercial Pesticide Applicator Certification Category 10 – Research and Demonstration. 2019–Present.

**Memberships**

- Graduate Student Assembly Delegate (elected Spring 2021) of the Virginia Tech Alwood Society. Student Member from 2020-Present.
- Student Member of Pi Chi Omega: national fraternity of pest management professionals. 2020- Present.
- Student Member of Entomological Society of America. 2020- Present
- Volunteer at Southwestern Virginia Wildlife Center. 2019- 2020.