Nadya D. Muchoney

Biology Dept. (MS 0314) | University of Nevada, Reno | 1664 N. Virginia St. Reno, NV 89557
nmuchoney@nevada.unr.edu

EDUCATION

Ph.D. **University of Nevada, Reno** (Department of Biology) *Expected: May 2021*
Ecology, Evolution, and Conservation Biology
Advisor: Dr. Angela Smilanich

B.S. **Boston College** (College of Arts & Sciences, Honors Program) *May 2013*
Biology, Minor: Environmental Studies
Senior Honors Thesis: "From community to genome: Evaluating differential approaches to understanding plant-insect coevolution"

AWARDS & HONORS

2019 **Graduate Research Opportunities Worldwide**, National Science Foundation. ($5000)

2019 **Research Grant**, Graduate Student Association, University of Nevada, Reno. ($2000)

2019 **Service Awards**, Nevada INBRE Genomics and Bioinformatics Cores. ($2000, $1800)

2019 **Research Grant**, E.N. Huyck Preserve and Biological Research Station. ($1000)

2018 **First Place**, Graduate Student Poster Competition, University of Nevada, Reno. ($500)

2018 **First Place**, Oral Competition: Biocontrol II, Entomological Society of America. ($75)

2018 **Travel Grant**, Graduate Student Association, University of Nevada, Reno. ($450)

2018 **Third Place**, Oral Competition, Pacific Branch, Entomological Society of America. ($50)

2018 **Research Grant**, International Activities Committee, University of Nevada, Reno. ($1000)

2018 **Research Grant**, Ron Leuschner Memorial Fund for Research on the Lepidoptera. ($500)

2017 **Second Place**, Oral Competition: General Ecology I, Entomological Society of America.

2017 **Travel Grants**, Graduate Student Association, University of Nevada, Reno. ($500, $500)

2017 **Graduate Research Fellowship**, National Science Foundation. ($138,000)

2016 **First Place**, College of Science Poster Competition, University of Nevada, Reno. ($350)

2016 **First Place**, Poster Competition: Insect Immunology, Intl. Congress of Entomology. ($75)

2016 **Travel Grant**, Graduate Student Association, University of Nevada, Reno. ($450)

2015 **Dean's Graduate Scholarship**, College of Science, University of Nevada, Reno. ($8,000)

2009-2013 **Gabelli Distinguished Presidential Scholarship**, Boston College. ($165,030)

PUBLICATIONS

Dyer LA, Philbin CS, Ochsenrider KM, Richards LA, Massad T, Smilanich AM, Forister ML, Parchman TL, Galland LM, Hurtado PJ, Espeset AE, Glassmire AE, Harrison JG, Mo C, Yoon SA, Pardikes NA, **Muchoney ND**, Jahner JP, Slinn HL, Shelef O, Dodson CD, Kato MJ, Yamaguchi LF, Jeffrey CS. Modern approaches to study plant-insect interactions in chemical ecology. *Nature Reviews Chemistry*, 2018, 2: 50 - 64.

PRESENTATIONS

Muchoney ND, Bowers MD, Mason PA, Carper AL, Teglas MB, Smilanich AM. June 2019. Disease dynamics of wild butterfly populations utilizing native and novel host-plant species. Poster presentation: 17th Annual Ecology and Evolution of Infectious Diseases

(EEID) Meeting. Princeton, NJ.

Muchoney ND, Bowers MD, Carper AL, Teglas MB, Smilanich AM. Dec. 2018. Impacts of novel host plants on Nymphalid butterflies: The role of host plant chemistry in modulating herbivore protection against a viral pathogen. Oral presentation: Launch Symposium for the Hitchcock Center for Chemical Ecology. Reno, NV.

Muchoney ND, Bowers MD, Carper AL, Smilanich AM. Nov. 2018. Use of an introduced host plant provides protection against viral infection in a native insect herbivore, *Anartia jatrophae*. Oral presentation: Joint Annual Meeting of the Entomological Societies of America, Canada, and British Columbia. Vancouver, Canada.

Muchoney ND, Bowers MD, Mason PA, Carper AL, Teglas MB, Smilanich AM. Aug. 2018. Variation in immune performance and interactions with a viral pathogen in a North American herbivore using native and novel host plants. Poster presentation: II Joint Congress on Evolutionary Biology. Montpellier, France.

Muchoney ND, Bowers MD, Mason PA, Carper AL, Teglas MB, Smilanich AM. Nov. 2017. Novel host plant use *in Euphydryas phaeton*: Influences on caterpillar immunity, chemical defense, and interactions with natural enemies. Oral presentation: 65th Annual Meeting of the Entomological Society of America. Denver, CO.

Muchoney ND, Bowers MD, Mason PA, Carper AL, Teglas MB, Smilanich AM. Aug. 2017. Consequences of novel host plant utilization for pathogen exposure, immunocompetence, and chemical defense in wild populations of *Euphydryas phaeton.* Poster presentation: 102nd Annual Meeting of the Ecological Society of America. Portland, OR.

Muchoney ND, Mason PA, Teglas MB, Hsueh J, Bowers MD, Smilanich AM. Sept. 2016. Utilization of a novel host plant impairs immunity and increases pathogen prevalence in wild populations of *Euphydryas phaeton*. Poster presentation: 25th International Congress of Entomology. Orlando, FL.

RESEARCH EXPERIENCE

Graduate Research Fellow, National Science Foundation *2018 – Present*

Graduate Research Assistant, Smilanich Lab, University of Nevada, Reno *2016 – 2018*

Research Technician, Ecology of Bird Loss Project (Rice University) *2015*

Field Intern, Ecology of Bird Loss Project (University of Washington) *2014*

Research Technician, Boston-Area Climate Experiment (Purdue University) *2013 – 2014*

Botanical Technician, Dixie National Forest (Nature's Capital, LLC) *2013*

TEACHING EXPERIENCE

Graduate Teaching Assistant, University of Nevada, Reno *2015 – 2016*
Principles of Biological Investigation Laboratory (BIOL 192)

Senior Health Educator, Peer Health Exchange (Boston, MA) *2009 – 2011*

SERVICE & OUTREACH

Board of Directors, Nevada Bugs and Butterflies *2019 – Present*

Museum Guide, Museum of Natural History, University of Nevada, Reno *2018 – Present*

Outreach Coordinator, EECB Program, University of Nevada, Reno *2016 – Present*

Outreach Volunteer, Nevada Bugs and Butterflies *2016 – Present*

Skype Lecturer, South County Middle School/Bucknell Elementary School *2017 – 2019*

Activity Leader, South Valleys Library STEAM Program *2018*