

James Moloney

Chemical Ecology of Mosquitoes, Science Education

PhD Student
Department of Biochemistry – Virginia Tech
Blacksburg, VA
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EDUCATION

- 2024 - Present **PhD in Biochemistry** (in progress)
Virginia Tech | Blacksburg, VA
- 2020 - 2024 **B.S. in Biology** (*magna cum laude*)
Minor in Chemistry
Truman State University | Kirksville, MO

RESEARCH POSITIONS

- 2024 - Present **Graduate Researcher**
Advised by Chloé Lahondère
Virginia Tech | Blacksburg, VA
- 2023 **Research Experience for Undergraduates**
Advised by Chloé Lahondère and Forde Upshur
Mountain Lake Biological Station | Pembroke, VA
- 2022 **Research Education Program**
Advised by Amy Iler and Elsa Godtfredsen
Rocky Mountain Biological Station | Gothic, CO
- 2021-2023 **Undergraduate Researcher**
Advised by Yohei Norimatsu
A.T. Still University | Kirksville, MO

FELLOWSHIPS

- 2025-2028 **Graduate Teaching Scholar**
Virginia Tech College of Agriculture and Life Sciences
- Three academic years of tuition, stipend, and professional development costs.
- 2025-2029 **Graduate Fellow**
Virginia Tech Global Change Interdisciplinary Graduate Education Program

HONORS AND AWARDS

2026	Ecological Society of America Graduate Student Policy Award	Unspecified
2023	Ranessa L. Cooper Botany Award Truman State University Kirksville, MO	\$1000
2022	Peter Goldman Ecology, Evolution, and Conservation Biology Award Truman State University Kirksville, MO	\$1300
2022	Conservation Leadership Award Missouri Department of Conservation Jefferson City, MO	\$250
2021	AmeriCorps Education Award AmeriCorps Washington D.C.	\$1300

GRANTS

2025	Student Travel Award College of Agriculture and Life Science Virginia Tech Blacksburg, VA	\$750
2024	Fellowship Application Travel Grant College of Agriculture and Life Science Virginia Tech Blacksburg, VA	\$750
2023	Charlotte Mangum Student Support Grant Society for Integrative and Comparative Biology	Unspecified
2023	NSF REU Travel Award Rocky Mountain Biological Laboratory	\$1200

TEACHING

2025	Graduate Teaching Assistant BCHM4354: Biochemical Communication Virginia Tech Blacksburg, VA
2024	Undergraduate Teaching Assistant BIOL104: Ecology and Evolution of the Organism Truman State University Kirksville, MO

- 2023 **Undergraduate Teaching Assistant**
TRU112: On Being a Biologist
Truman State University | Kirksville, MO
- 2022 **Undergraduate Teaching Assistant**
BIOL107: Cells, Molecules and Genes
Truman State University | Kirksville, MO
- 2022-2023 **Substitute Teacher (K-12)**
North Kansas City and Liberty School Districts
Kansas City, MO

PRESENTATIONS

2025

Upshur, F., **Moloney, J.**, Kennedy, R., de Montigny, S., Singh, S., Lahondère, C. (Poster). Fatal attraction: exploring the interaction between *Aedes japonicus* and *Amianthium muscitoxicum*. *Virginia Tech Center for Emerging, Zoonotic, and Arthropod-borne Pathogens Research Symposium*. November 15. Blacksburg, VA.

Upshur, F., **Moloney, J.**, Kennedy, R., de Montigny, S., Singh, S., Lahondère, C. (Poster). Fatal attraction: exploring the interaction between *Aedes japonicus* and *Amianthium muscitoxicum*. *Engelpalooza*. October 9. Blacksburg, VA.

Upshur, F., **Moloney, J.**, Kennedy, R., de Montigny, S., Singh, S., Lahondère, C. (Poster). Fatal attraction: exploring the interaction between *Aedes japonicus* and *Amianthium muscitoxicum*. *Ecological Society of America Annual Meeting*. August 11. Baltimore, MD.

Moloney, J., Lahondère, C. (Poster) Mosquitoes eat nectar? – Analysis of Mosquito Sugar Feeding on Goldenrod Flowers. *Virginia Tech Global Change Center Graduate Research Symposium*. April 18. Blacksburg, VA.

2024

Moloney, J., Upshur, F., Lahondère, C. (Oral) *Aedes japonicus* phytophagy of fly poison (*Amianthium muscitoxicum*) and analysis of floral volatiles. *Society for Integrative and Comparative Biology Annual Meeting*. January 6. Seattle, WA.

2023

Moloney, J., Godfredsen, E., Iler, A. (Oral) The effect of snowmelt timing on pollinator visitation to subalpine wildflowers. *Society for Integrative and Comparative Biology Annual Meeting*. January 4. Austin, TX.

Moloney, J., Andell, S., Norimatsu, Y. (Poster) Electromagnetic perceptive gene expression and comparison of associated ion channels in *Xenopus laevis* oocytes. *Truman State Student Research Conference*. April 18. Kirksville, MO.

Moloney, J., Godfredsen, E., Iler, A. (Oral) The effect of snowmelt timing on pollinator visitation to subalpine wildflowers. *Truman State Student Research Conference*. April 18. Kirksville, MO.

OUTREACH and SERVICE (selected)

2025 - Present Virginia Tech Biochemistry Graduate Student Association
Recruitment and Orientation Chair

2025 Virginia Tech Nutshell Games Speaker

2025 Flip the Fair Participant

2025 Hokie Bugfest Participant

2025 Virginia Tech Science Festival Participant

2024 Truman State Showcase Presenter

2021 - 2022 Enactus Connect Taiwan English Teacher

MENTORING

Undergraduate Students

2025 - Present Micah Hodge (Virginia Tech, Biochemistry)

2025 - Present Isabell Lee (Virginia Tech, Biochemistry)

2025 - Present Sophia D'Onofrio (Virginia Tech, Biochemistry)

2025 SaGia Signh (Virginia Tech, Biochemistry)

Summer REU Students

2025 Ray Kennedy (Lehigh University, Biological Sciences)

PROFESSIONAL MEMBERSHIPS

2025 - Present Biochemical Society

2025 - Present International Society for Chemical Ecology

2025 - Present Ecological Society of America

2024 - Present Sigma Xi

2022 - Present Society for Integrative and Comparative Biology

