

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

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| 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

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| 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 |

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| 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., Godtfredsen, 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., Godtfredsen, 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

