

# 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

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## 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

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## 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

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## HONORS AND AWARDS

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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

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## 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

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## TEACHING

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2025	<b>Graduate Teaching Assistant</b> BCHM4354: Biochemical Communication Virginia Tech   Blacksburg, VA
2024	<b>Undergraduate Teaching Assistant</b> 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

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## PRESENTATIONS

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### 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.

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### **OUTREACH and SERVICE (selected)**

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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

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### **MENTORING**

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#### 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	<u>SaGia Signh</u> (Virginia Tech, Biochemistry)

#### Summer REU Students

2025	<u>Ray Kennedy (Lehigh University, Biological Sciences)</u>
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### **PROFESSIONAL MEMBERSHIPS**

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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

