

## Chloé Lahondère

*Thermal Biology, Eco-Physiology and Neuroethology of Disease Vector Insects*

Assistant Professor

Department of Biochemistry – Virginia Tech

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### EDUCATION

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- 2009-2012 PhD Thesis in *Life Sciences – Entomology*  
University François Rabelais, Tours, France (*With highest honors*)
- 2008-2009 *Master of Science degree: MASTER 2<sup>nd</sup> year in Insect Science*  
University François Rabelais, Tours, France (*Rank: 1/35, with honors*)
- 2007-2008 *MASTER 1<sup>st</sup> year in Population Biology*  
University François Rabelais, Tours, France (*Rank: 3/35, with honors*)
- 2004-2007 *Bachelor of Science: LICENCE in Integrative & Evolutive Biology*  
University François Rabelais, Tours, France (*With honors*)

### RESEARCH POSITIONS and EXPERIENCES

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- 2020-present **Assistant Professor** - Dept. of Biochemistry, Virginia Tech, Blacksburg, USA  
Affiliated Faculty **Fralin Life Sciences Institute** (2017-present)  
Affiliated Faculty **Global Change Center** (2018-present)  
Affiliated Faculty **BIOTRANS program** (2018-present)  
Affiliated Faculty **Dept. of Entomology** (2020-present)  
Affiliated Faculty **CeZAP** (2020-present)
- 2017-2020 **Research Assistant Professor** - Dept. of Biochemistry, Virginia Tech, Blacksburg, USA
- 2014-2017 **Research Associate**  
Advised by Jeffrey Riffell - Dept. of Biology, University of Washington, Seattle USA
- 06-07 2014 **Research Assistant**  
Advised by Lauren Buckley - Dept. of Biology, University of Washington, Seattle USA
- 01-04 2013 **Visiting Scholar**  
Advised by Jeffrey Riffell - Dept. of Biology, University of Washington, Seattle USA
- 2009-2012 **Graduate Researcher** (PhD degree)  
Advised by Claudio Lazzari - University François Rabelais, Tours, France
- 2008-2009 **Graduate Researcher** (MSc degree)  
Advised by Claudio Lazzari - Université François Rabelais, Tours, France
- 2007 **Undergraduate Researcher** (BSc degree)  
Advised by Michael Greenfield - Université François Rabelais, Tours, France

### PUBLICATIONS (\*: undergraduate student \*\*: graduate student)

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#### Under review / in revision / preprints

- 19- Wolff G.H., **Lahondère C.**, Vinauger C. and J.A. Riffell. Neuromodulation and Differential Learning Across Mosquito Species. (*in revision*). **BioRxiv**, 755017.
- 18- **Lahondère C.**, Buradino M.\*\* and Lazzari C.R. (2019). Thermoregulation in *Rhodnius prolixus*: heart activity and heterothermy. (*in revision*) **BioRxiv**, 685305.

**Peer-reviewed**

- 17- Lazzari C.R., Fauquet A.\*\*, **Lahondère C.**, Pereira M.H. and R. Araujo. (in press) Ticks perform evaporative cooling during blood-feeding (*under review - Journal of Insect physiology*). ***Journal of Insect Physiology***, BioRxiv:180968.
- 16- **Lahondère C.** (2021). A step-by-step guide to mosquito electroantennography. ***JOVE***.
- 15- Bates T.A, Chuong C., Marano J., Waldman A., Klinger A., Reinhold J.M.\*\*, **Lahondère C.** and J. Weger. (2021). American *Aedes japonicus japonicus*, *Culex pipiens pipiens*, and *Culex restuans* mosquitoes have limited transmission capacity for a recent isolate of Usutu virus. 555: 64-70. ***Virology***.
- 14- Reinhold J.M.\*\*, Shaw R.\* and **Lahondère C.** (2021). Beat the heat: *Culex quinquefasciatus* regulates its body temperature during blood-feeding. 96: 102826. ***Journal of Thermal Biology***.
- 13- Chandrasegaran K., **Lahondère C.**, Escobar L.E. and Vinauger C. Mosquito ecology, behavior, and disease transmission. (2020). 36(4): 393-403. ***Trends in Parasitology***.
- 12- **Lahondère C.**, C. Vinauger, R.P. Okubo, G. Wolff, J.K. Chan, O.S. Akbari, J.A. Riffell. (2020). The olfactory basis of orchid pollination by mosquitoes. ***Proceedings of the National Academy of Sciences***. 201910589; DOI: 10.1073/pnas.1910589117.
- 11- Upshur I.F.\*\*, Bose E.A\*, Hart C.\* and **C. Lahondère.** (2019). Temperature and sugar feeding effects on *Aedes aegypti* mosquitoes' activity ***Insects***. 10(10): 347.
- 10- Afify A., Betz J.F., Riabinina O., **C. Lahondère**, C.J. Potter. (2019). Commonly used insect repellents hide human odors from *Anopheles* mosquitoes. ***Current Biology***. 29:1-12.
- 9- Benoit J.B., Lazzari C.R., Denlinger D.L. and **C. Lahondère.** (2019). Thermoprotective adaptations are critical for arthropods feeding on warm-blooded hosts. ***Current Opinion in Insect Science***. (34):7-11. *Recommended by the F1000*.
- 8- Reinhold J.\*\*, Lazzari C.R. and **C. Lahondère.** (2018). Effects of temperature on *Aedes aegypti* and *Aedes albopictus*: a review. ***Insects*** 9(4), 158.
- 7- Lazzari C.R., Fauquet A.\*\* and **Lahondère C.** (2018). Keeping cool: kissing bugs avoid cannibalism thermoregulating. ***Journal of Insect Physiology***. (107):29–33.
- 6- Vinauger C., **C. Lahondère**+, G.H. Wolf, L.T. Locke\*, J.E. Liaw\*, J.Z. Parrish, O.S. Akbari, M.H. Dickinson and J.A. Riffell (2017). Dopamine modulation of host learning in *Aedes aegypti* mosquitoes. ***Current Biology***. 28(333–344). (+: co first authorship)
- 5- **Lahondère C.**, Insausti T., Paim RMM, Luan X., Belev G., Pereira M.H., Ianowski J.P. and C.R. Lazzari (2017). Countercurrent heat exchange and thermoregulation during blood-feeding in kissing bugs. ***eLife***. 2017; 6:e26107.
- 4- Lutz E.K.\*\*, **Lahondère C.**, Vinauger, C. and J.A. Riffell (2017). Olfactory learning and chemical ecology of olfaction in disease vector mosquitoes: A life history perspective. ***Current Opinion in Insect Science***. 20:75-83.
- 3- Vinauger C., **Lahondère C.**, Cohuet A., Lazzari C.R. and J.A. Riffell (2016). Learning and memory in disease vector insects. ***Trends in Parasitology***. 32(10):761–771.
- 2- **Lahondère C.** and C.R. Lazzari (2015). Thermal effect of blood feeding in the telmophagous fly *Glossina morsitans morsitans*. ***Journal of Thermal Biology***. 48:45-50.
- 1- **Lahondère C.** and C.R. Lazzari (2012). Mosquitoes cool down during blood feeding to avoid overheating, ***Current Biology***, 22(1): 40-45. *Recommended by the F1000*.

**Book Chapter:**

- Pereira M.H., Paim R.M.M., **Lahondère C.** and C.R. Lazzari (2017). Heat shock proteins and blood-feeding in arthropods. *In: Asea A., Kaur P. (eds) Heat Shock Proteins in Veterinary Medicine and Sciences. Heat Shock Proteins, vol 12. Springer.*
- **Lahondère C.** and C.R. Lazzari (2013). Thermal stress and thermoregulation in *Anopheles* mosquitoes - New insights into malaria vectors, *ed. Sylvie Manguin. ISBN 980-953-307-550-6.*

**FUNDINGS, HONORS and AWARDS**

2020 Department of Biochemistry Service / Outreach Award nominee		2020
Board of Reviewers – MDPI Insects		2020
NSF REU-site ( <i>Role</i> : Senior Personnel)	\$371,154	2020-2023
F1000 recommendation for <i>Current Opinion in Insect Science</i> paper		2019
Sigma Xi - The Scientific Research Honor Society - Full membership		2019
<i>eLife</i> Travel grant	\$1,000	2019
The Fralin Life Science Institute	\$10,000	2019
Global Change Center ISCE - Fralin Institute. ( <i>Role</i> : PI)	\$17,300	2018-19
MicroFEWHS – Fralin Institute ( <i>Role</i> : PI)	\$3,500	2018-19
The Eppley Foundation for Research ( <i>Role</i> : PI)	\$23,097	2018-19
2018 Department of Biochemistry Research Award		2018
Margaret Walton Fellowship for Mountain Lake	\$493	2018
"Best presentation" award - UWPA research symposium		2016
University of Washington, Department of Biology Travel Grant	\$1,000	2016
University of Washington Undergraduate Research Mentor Nominee		2016
University of Washington Undergraduate Research Mentor Nominee		2015
<i>The Journal of Experimental Biology</i> Travelling Fellowship	£2,300	2012
Bed bugs physiology and behavior research ( <i>Role</i> : Co- PI)	8000€	2012
Research and career development grant from IRBI / CNRS Tours, France	600€	2012
F1000 recommendation for 2012 <i>Current Biology</i> paper		2012
“Centenary Medal”		2009

*International Symposium on the Centenary of the Discovery of Chagas Disease, Rio de Janeiro, Brazil*

**INVITED TALKS and PRESENTATIONS** (*O*: oral presentation *P*: poster) – does not highlight contributed talks**2021**

**Lahondère C.** In cold-blood: deciphering the mechanisms underlying mosquito-frog interactions (*O*) *OARDC meeting: Integrative mosquito biology: from molecules to ecosystems, Wooster, OH, USA (Cancelled in May 2020 due to COVID 19 - Rescheduled for May 2021 – invited talk).*

**2020**

**Lahondère C.** In cold-blood: deciphering the mechanisms underlying mosquito-frog interactions (*O*) *OARDC meeting: Integrative mosquito biology: from molecules to ecosystems, Wooster, OH, USA (Cancelled in May 2020 due to COVID 19 - Rescheduled for May 2021 – invited talk).*

**Lahondère C.** The sweet tooth of mosquitoes: leveraging knowledge on sugar feeding for their control (*O*). *VTLSS Seminar series, Blacksburg, VA, USA (October 9<sup>th</sup> – invited talk)*

**Lahondère C.** Mosquito eco-physiology and thermal biology at Virginia Tech (*O*). *Bennett College Seminar Series, (November 12<sup>th</sup> – invited talk)*

**2019**

**Lahondère C.** Eco-physiology and neuro-ethology of disease vector insects (*O*). *Entomology Departmental Seminar series, Blacksburg, VA, USA (March 28<sup>th</sup> – invited talk)*

**Lahondère C., Hanlon R. and D. Schmale.** Development of an unmanned aircraft system (UAS) to collect mosquitoes from remote areas. *2019 Micro FEWHS mini symposium, Blacksburg, VA, USA (May 6<sup>th</sup> – invited talk).*

**Lahondère C.** Eco-physiology and neuro-ethology of disease vector insects (*O*) *Le Studium Conference: New avenues for the behavioral manipulation of disease vectors, Tours, France (May 22<sup>nd</sup> – invited talk)*

**Lahondère C.** Climate change and the dynamics of mosquito populations in Virginia (O) *Carilion Climate Change Conference, Roanoke, VA, USA (October 5<sup>th</sup> – invited talk)*

**Lahondère C.** “Some like it hot”... and sweet (O) *Seminar series, JMU, VA, USA (October 25<sup>th</sup> – invited talk)*

**Lahondère C.** From pollinator to disease vector: a journey through the life of mosquitoes (O) *Promotion Seminar, Department of Biochemistry, Virginia Tech, Blacksburg, VA, USA (November 7<sup>th</sup> – invited talk)*

Upshur I., Bose E., Hart C. and **Lahondère C.** Temperature and sugar feeding effects on *Aedes aegypti* mosquitoes' activity (O) *Entomological Society of America, Saint Louis, MO, USA (November)* (+ 3 student presentations)

## **2018**

**Lahondère C.** Eco-physiology and neuro-ethology of disease vector insects (O) *OARDC meeting: Integrative mosquito biology: from molecules to ecosystems, Wooster, OH, USA (April 13<sup>th</sup> – invited talk)*

**Lahondère C.** Eco-physiology and neuro-ethology of disease vector insects (O) *Mountain Lake Biological Station seminar, Pembroke, VA, USA (June 5<sup>th</sup> – invited talk)*

**Lahondère C.** Effects of temperature on olfactory behavior in mosquitoes (O) *ECRO XXVIII Congress, Würzburg - Germany (September 8<sup>th</sup> – invited talk)*

**Lahondère C.** Some like it hot: thermal biology of disease vector insects (O) *Entomology 2018, ESA's 66th Annual Meeting, Vancouver, BC, Canada (November 14<sup>th</sup> – invited talk)*

## **2017**

**Lahondère C.** Thermal Biology of disease vector insects (O) *Biochemistry Departmental Seminar, Virginia Tech, Blacksburg, VA, USA (July 20<sup>th</sup> – invited talk)*

**Lahondère C.**, Vinauger C., Okubo R. and J.A. Riffell. Orchid pollination by snow mosquitoes (O) *Entomology 2017, ESA's 65th Annual Meeting, Denver, CO, USA*

**Lahondère C.**, Liaw J.E., Tobin K., Joiner J.M., Vinauger C. and J.A. Riffell. Effect of temperature on olfactory behavior in mosquitoes (**Highlighted P**) *Entomology 2017, ESA's 65th Annual Meeting, Denver, CO, USA*

**Lahondère C.** Effect of temperature on olfactory behavior in mosquitoes (O) *Post-doctoral Symposium – Seattle, WA, USA*

## **2016**

**Lahondère C.** What makes mosquitoes attracted to *Platanthera* orchids? (O) *UWPA Annual Symposium 2016 - Seattle, WA, USA*

**Lahondère C.**, Vinauger C., Okubo R. & J.A. Riffell. The pollination ecology of *Platanthera* orchids by snow mosquitoes (O) *ICE 2016 – XXV International Congress of Entomology, Orlando, FL, USA*

Vinauger C., **Lahondère C.**, Locke L.T, Liaw J.E. & J.A. Riffell. Aversive learning in the disease vector mosquito *Aedes aegypti* (O) *ICE 2016 – XXV International Congress of Entomology, Orlando, FL, USA*

Liaw J.E., **Lahondère C.**, Vinauger C. & J.A. Riffell. Aversive learning in *Aedes aegypti* mosquitoes (O) *19th Annual Undergraduate Research Symposium, Seattle, WA, USA*

**Lahondère C.**, Vinauger C., Wolff G., Locke L.T., Liaw J.E., Parrish J.Z., Akbari O., Dickinson M.H. & J.A. Riffell. Neuromodulation of olfactory learning in *Aedes aegypti* mosquitoes (P) *NIFTI (Nature Inspired Flight Technologies and Ideas) – SOAR meeting, Baltimore, MA, USA*

**Lahondère C.** What makes mosquitoes attracted to *Platanthera* orchids? (O) *Post-doctoral Symposium – PechaKucha, Seattle, WA, USA*

**Lahondère C.**, Vinauger C., Okubo R. & J.A. Riffell. What makes mosquitoes attracted to *Platanthera* orchids? (P) *SICB Annual Meeting, Portland, OR, USA*

C. Vinauger, **Lahondère C.**, Lutz E.K., Locke L.T & J.A. Riffell. Olfactory learning in the vector mosquito *Aedes aegypti* (O) *SICB Annual Meeting, Portland, OR, USA*

### **2015**

Liaw J.E., **Lahondère C.**, Vinauger C. & J.A. Riffell. Exploring learning abilities of disease vector mosquitoes (P) *18th Annual Undergraduate Research Symposium, Seattle, WA, USA*

Joiner J., **Lahondère C.**, & J.A. Riffell. Mosquito olfaction: effects of ambient temperature (P) *18th Annual Undergraduate Research Symposium, Seattle, WA, USA*

### **2014**

**Lahondère C.**, Insausti T., Ianowski J. & C.R. Lazzari. Keeping cool: Thermoregulation during feeding in kissing bugs (O, invited presentation). *Entomology 2014, ESA's 62<sup>nd</sup> Annual Meeting, Portland, OR, USA*

### **2013**

**Lahondère, C.** Thermal stress and thermoregulation in haematophagous insects (O) *Max Planck Institute of Neurobiology, Martinsreid, Germany*

### **2012**

**Lahondère, C.** Thermal stress and thermoregulation in haematophagous insects (O) “*Kikikose*”, *Tours, France*

**Lahondère, C.** Thermal stress and thermoregulation in haematophagous insects (O) *University of Washington, Seattle, WA, USA*

### **2011**

**Lahondère, C.** Rocking behavior in Phasmatodea (P) *Colloque SFECA (Société Française pour l'Etude du Comportement Animal), Tours, France*

Fresquet N., **Lahondère C.** & C.R. Lazzari. Modulation de la réponse d'extension du proboscis par l'interaction des températures de la cible et de l'environnement chez un insecte hématophage (P) *Colloque SFECA (Société Française pour l'Etude du Comportement Animal), Tours, France*

Fresquet N., **Lahondère C.** & C.R. Lazzari. Role of the thermal background on the response to heat in *Rhodnius prolixus* (P) *The Sixth International Symposium on Molecular Insect Science, Amsterdam, the Netherlands*

**Lahondère C.**, Insausti T. & C.R. Lazzari. Handling of thermal stress associated with feeding in haematophagous insects (O + P) *European PhD Network « Insect Science » Tours, France*

### **2010**

**Lahondère, C.** & C.R. Lazzari. Stress thermique et thermorégulation chez les insectes hématophages (P) *16ème Colloque de Biologie de l'Insecte, Lyon, France*

**Lahondère, C.** & C.R. Lazzari. Thermal stress and thermoregulation in haematophagous insects (P) *Sensory Ecology: an international course for postgraduate students. Lund, Sweden*

### **2009**

**Lahondère, C.** How haematophagous insects avoid excessive heating during feeding? (O) *INRA Versailles, France*

Lazzari, C.R., **Lahondère, C.**, Amino, R. & T.C. Insausti. Keeping cool: how blood-sucking insects avoid excessive warming during feeding. (P) *International Symposium on the Centenary of the Discovery of Chagas Disease, Rio de Janeiro, Brazil*

**Lahondère, C.** Stress thermique et thermorégulation chez les insectes hématophages (O) *Journée de l'IRBI (annual meeting), Tours, France*

**STUDENTS and POST-DOC MENTORING** (*current lab members in bold*)

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2021-present	<b>Anaïs Tallon</b> (Post-doc, Virginia Tech)
2021-present	<b>Silvère Giraud</b> (MSc student, Université de Tours, France)
2021-present	<b>Darren Dougharty</b> (Lab Tech, Virginia Tech)
2020-present	<b>Ashlynn VanWinkle</b> (Biochemistry BS student, Virginia Tech)
2020-present	<b>Forde Upshur</b> (PhD student, Virginia Tech)
2019-present	<b>Lauren Fryzlewicz</b> (BS-MSc student, Virginia Tech)
2019-present	<b>Morgen VanderGiessen</b> (MSc student, Virginia Tech) Co-mentored with C. Vinauger
2018-present	<b>Joanna Reinhold</b> (PhD student, Virginia Tech)
2018-2020	Forde Upshur (MSc student, Virginia Tech)
2019-2020	Aley Savory (Chemical engineering BS student, Virginia Tech)
2019-2020	Ryan Shaw (Biology BS student, Virginia Tech)
2018-2020	Sarah Tartabini (BioChem student, Virginia Tech)
2015-2019	Ryo Okubo (PhD student, UW Biology, Seattle)
2018-2019	Elizabeth Bose (BioChem and Clinical Neuroscience student, Virginia Tech)
2018-2019	Cameron Hart (BioChem student, Virginia Tech)
2016-2017	Kennedy Tobin (Neurobio undergrad student, UW Biology, Seattle)
2015-2017	Korosh Moosavi (BioChem undergrad student, UW Biology, Seattle)
2015-2017	Assel Shardarbekova (Neurobio undergrad student, UW Biology, Seattle)
2014-2017	Jessica E. Liaw (Bio undergrad student, UW Biology, Seattle)
2014-2016	Lauren T. Locke (Neurobio undergrad student, UW Biology, Seattle)
2014-2015	Jillian M. Joiner (Bio undergrad student, UW Biology, Seattle)
2012	Cindy Laurence (B.Sc. level: Licence 3 <sup>rd</sup> year, IRBI, Tours)
2010-2011	Maurane Buradino (B.Sc. level: Licence 3 <sup>rd</sup> year and M.Sc. level: Master 1 <sup>st</sup> year, IRBI Tours)

**GRADUATE COMMITTEES** (*current in bold*)

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2021-present	<b>Lindsey Faw</b> (PhD student - Entomology, Advisor: Gillian Eastwood)
2020-present	<b>Tam NGuyen</b> (PhD student - Biochemistry, Advisor: Daniel Slade)
2020	Amadou Sékou Traoré (PhD student – AgroParisTech, Advisor: Frédéric Simard) – <i>Thesis Rapporteur</i>
2020	Tahmina Ahmed (PhD student - Biochemistry, Advisor: Jinsong Zhu)
2019-present	<b>Morgen VanderGiessen</b> (MSc student, Biochemistry) Co-mentored with C. Vinauger
2019-present	<b>Lauren Fryzlewicz</b> (BS-MSc student, Biochemistry - Committee Chair)
2019-present	<b>Morgan Roth</b> (PhD student – Entomology – Advisor: Aaron Gross)
2019	Caitlin Cridland (PhD student – Biochemistry – Advisor: Glenda Gillaspay) – <i>Prelim Committee Chair</i>
2018-present	<b>Nicole Wynne</b> (PhD student – Biochemistry – Advisor: Clément Vinauger)
2018-present	<b>Joanna Reinhold</b> (PhD student - Biochemistry - Committee Chair)
2018-present	<b>Forde Upshur</b> (MSc & PhD student- Biochemistry - Committee Chair)
2018-2020	Megan Richardson (PhD student - Biochemistry - Advisor: Jinsong Zhu)
2018-2019	Chris Yoo (MSc student - Biochemistry - Advisor: Daniel Slade)

**TEACHING EXPERIENCE**


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2021	Biochem 2987 (lab course)
2020	Biochem 2024 (guest lecture)
2020	Medical Entomology - France (guest lecture)
2019	Medical Parasitology - University of Cincinnati (guest lecture)
2019	Biochem 2024 (guest lecture)

2019	Biochemical Communication (guest lecture)
2018	Disease Ecology & Ecosystem Management, FiW 3414 (guest lecture)
2016	Chemical Communication (Instructor of record)
2012	Ecology (4h) <i>B.Sc. level: Licence 1<sup>st</sup> year</i>
2012	Ecology-Ethology (62h) <i>B.Sc. level: Licence 1<sup>st</sup> year</i>
2011	Insects mounting (4h) <i>M.Sc. level: Master 2<sup>nd</sup> year</i>
2011	Behavioral Ecology (14h) <i>Master 1<sup>st</sup> year</i>
2011	Ecology-Ethology (25h) <i>B.Sc. level: Licence 2<sup>nd</sup> year</i>
2010	Neuroethology (4h) <i>Master 1<sup>st</sup> year</i>
2010	Animal Biology (12h) <i>B.Sc. level: Licence 3<sup>rd</sup> year</i>

## **PROFESSIONAL ACTIVITIES & SERVICE**

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2020-present	Member of the Review Editorial Board – Frontier in Insect Science
2020-present	Member of the Review Editorial Board – MDPI Insects
2020-present	Member of the Diversity and Inclusion Committee of ESA
2019-2020	Co-guest editor of a COIS section on Vector and medical and veterinary entomology
2019	Symposium co-organizer for the ESA Eastern Branch Meeting – March 2019 – Blacksburg VA
2018-present	Diversity and Inclusion Committee Chair for the Biochemistry Dept
2018	<i>Ad hoc</i> Reviewer for NSF CAREER award
2018	Co-guest editor of a special issue on mosquito biology and ecology for the journal <i>Insects</i>
2016-2017	Graduate Program Committee Post-doctoral representative
2014-present	Frontiers in Ecology and Evolution / Chemical Ecology Editorial board member
2012	Member of the administrative committee at the IRBI
2010-present	Reviewer for <i>Bulletin of Entomological Research</i> , <i>Current Biology</i> , <i>Frontiers in Microbiology</i> , <i>African Journal of Biotechnology</i> , <i>Frontiers in Public Health</i> , <i>PloS One</i> , <i>Journal of Insect Physiology</i> , <i>Insect Science</i> , <i>Biology Letters</i> , <i>Insects</i> , <i>Parasites and Vectors</i> , <i>Biologia</i> , <i>Plos NTDs</i> , <i>Medical and Veterinary Entomology</i> , <i>Royal Society Open Science</i> , <i>IJERPH</i> , <i>Chemoecology</i> , <i>Journal of Insect Science</i>

## **OUTREACH (selected)**

2020	Kids' Tech guest speaker
2019	MLBS open house
2019-present	Hokie Bug Fest, Blacksburg, VA
2019-present	Virginia Tech Science Festival
2018-present	“Skype a Scientist” participant

## **Professional memberships:**

2019-present	AAAS
2019-present	Sigma Xi
2018-present	Virginia Mosquito Control Association
2014-present	Entomological Society of America
2014-present	Society of Integrative and Comparative Biology