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CURRENT POSITION

2022 - **Assistant Professor**
 Department of Biology
University of Wisconsin-Eau Claire, WI USA

EDUCATION AND TRAINING

2020 - 2022 NIAID NRSA (F32) Postdoctoral Fellow
University of Wisconsin-Madison, Madison, WI USA

2017 - 2020 Postdoctoral Fellow
Merck KGaA, Madison, WI USA

2013 - 2017 PhD in Genetics & Genomics
Iowa State University, Ames, IA USA

2009 - 2013 BS in Oxbridge Honors Molecular Biology
William Jewell College, Liberty, MO USA

TEACHING

UWEC teaching

Biol 221L - Foundations of Biology I Lab
 Role: co-instructor
 Fall 2022 - 2025 & Spring 2023 - 2026 (11 sections total)

Biol 305 - Molecular and Cell Biology
 Role: course coordinator and sole instructor
 Spring 2023-2026 (4 credits, lecture)

Biol 306 - Infectious Disease Biology
 Role: course coordinator and sole instructor
 Fall 2023 - 2025 (3 credits, lecture)

Biol 343 - Applied Bioinformatics I
 Role: course coordinator and sole instructor
 Fall 2024 & 2025 (4 credits, lecture and lab)

Biol 393 - Junior Seminar in Bioinformatics
 Role: course coordinator and sole instructor
 Spring 2025 (1 credit, seminar)

Biol 443 - Applied Bioinformatics II
 Role: course coordinator and sole instructor
 Spring 2025 (4 credits, lecture and lab)

Biol 345 - Invertebrate Zoology
 Role: course coordinator and sole instructor
 Fall 2022 (4 credits, lecture + lab)

Previous teaching

PBS 514 - Veterinary Parasitology
 UW-Madison School of Veterinary Medicine
 2019-2022: Course instructor (4 lectures, 2 labs)

V PTH 353 - Introduction to Parasitology
 Iowa State University
 2017: Course instructor (1 lecture)

BMS 329 - Anatomy and Physiology of Domestic Animals
 Iowa State University
 2017: Course instructor (3 lectures)

PUBLICATIONS

‡ Corresponding author(s) † Co-senior authors § Equal contribution [UWEC undergraduate](#)
 Citations: 824, h-index: 11 | [Google Scholar](#) | [MyNCBI Bibliography](#)

UWEC Affiliation

8. RV Horejsi[§], CN Nelson[§], A De Ruyter, H Gensch, S Maasz-Seawright, C Weber, S Willett, SA Olson, NJ Wheeler[†]. *Quantitative ethology of schistosome miracidia characterizes a conserved snail peptide that inhibits penetration.* Accepted manuscript at **PLOS Pathogens** 2025.
7. S Willett[§], SA Olson[§], RV Horejsi, CN Nelson, NJ Wheeler[†]. *Tissue-specific distribution of eggs in the definitive host drives transcriptomic and behavioral differences in *Schistosoma mansoni* miracidia.* In review at **Journal of Parasitology** 2025.
6. Z Caterer, R Horejsi, C Weber, B Mathisen, C Nelson, M Bagatta, I Coughlin, M Wettstein, A Kulshrestha, HSB Lee, LR Nunn, M Zamanian, NJ Wheeler[†]. *A graphical user interface for wormXpress democratizes phenotypic screening of parasitic worms.* **International Journal of Parasitology: Drugs and Drug Resistance** 2025.
5. LR Nunn, TD Juang, DJ Beebe, NJ Wheeler^{††}, M Zamanian[†]. *A high-throughput sensory assay for parasitic and free-living nematodes.* **Integrative Biology** 2023.
4. EG Rehborg[§], NJ Wheeler[§], M Zamanian[†]. *Mapping resistance-associated anthelmintic interactions in the model nematode *Caenorhabditis elegans*.* **PLOS NTD** 2023.
3. NJ Wheeler, KT Ryan, KJ Gallo, CR Henthorn, SS Erickson, JD Chan, M Zamanian[†]. *Multivariate chemogenomic screening prioritizes new macrofilaricidal leads.* **Communications Biology** 2023.
2. KT Ryan, NJ Wheeler, IK Kamara, H Johnson, JE Humphries, M Zamanian, JD Chan[†]. *Phenotypic profiling of macrocyclic lactones on parasitic *Schistosoma* flatworms.* **Antimicrobial Agents and Chemotherapy** 2023.
1. IK Kamara, JT Thao, K Kaur, NJ Wheeler, JD Chan[†]. *Annotation of G-protein coupled receptors in the genomes of parasitic blood flukes.* **microPublication Biology** 2023.

Previous Affiliations

14. KJ Gallo, NJ Wheeler, AM Elmi, PA Airs, M Zamanian[†]. *Pharmacological profiling of a *Brugia malayi* muscarinic acetylcholine receptor as a putative antiparasitic target.* **Antimicrobial Agents and Chemotherapy** 2023.
13. NJ Wheeler, EA Hallem, M Zamanian[†]. *Making sense of sensory behaviors in vector-borne helminths.* **Trends in Parasitology** 2022.

12. HJ Loghry, H Kwon, RC Smith, NA Sondjaja, S Minkler, S Young, **NJ Wheeler**, M Zamanian, L Bartholomay, MJ Kimber[†]. *Extracellular vesicles secreted by Brugia malayi microfilariae modulate the melanization pathway in the mosquito host.* **Scientific Reports** 2022.
11. **NJ Wheeler**, EJ Garncarz, KJ Gallo, KT Ryan, JD Chan, M Zamanian[†]. *wrmXpress: A modular package for high-throughput image analysis of parasitic and free-living worms.* **PLOS NTD** 2022.
10. PM Airs, K Vaccaro, KJ Gallo, N Dinguirard, ZW Heimark, **NJ Wheeler**, J He, K Weiss, NE Schroeder, J Huisken, M Zamanian[†]. *Spatial transcriptomics reveals antiparasitic targets associated with essential behaviors in the human parasite Brugia malayi.* **PLOS Pathogens** 2022. 18(4): e1010399.
9. **NJ Wheeler**, PM Airs, M Zamanian[†]. *Long-read RNA sequencing of human and animal filarial parasites improves gene models and discovers operons.* **PLOS NTD** 2020. 14(11):e0008869.
8. **Wheeler NJ**, Heimark ZW, Airs PM, Mann A, Bartholomay LC, Zamanian M[†]. *Genetic and functional diversification of chemosensory pathway receptors in mosquito-borne filarial nematodes.* **PLOS Biology** 2020. 18(6):e3000723.
7. HJ Loghry, W Yuan, M Zamanian, **NJ Wheeler**, TA Day, MJ Kimber[†]. *Ivermectin inhibits extracellular vesicle secretion from parasitic nematodes.* **Journal of Extracellular Vesicles** 2020. 10(2):e12036.
6. T Maier, **NJ Wheeler**, EKO Namigai, J Tycko, RE Grawelle, Y Woldeamanuel, K Klohe, J Perez-Saez, SH Sokolow, GA De Leo, TP Yoshino, M Zamanian[†], J Reinhard-Rupp[†]. *Gene drives for schistosomiasis transmission control.* **PLOS NTD** 2019. 13(12):e0007833.
5. **International Helminth Genomes Consortium**. 2018. *Comparative genomics of the major parasitic worms.* **Nature Genetics** 2019. doi:10.1038/s41588-018-0262-1
4. **NJ Wheeler**, N Dinguirard, J Marquez, A Gonzalez, M Zamanian, TP Yoshino, MG Castillo[†]. *Sequence and structural variation in the genome of the Biomphalaria glabrata cell line.* **Parasites & Vectors** 2018. 11(1):496.
3. S Hahnel, **NJ Wheeler**, Z Lu, A Wangwiwatsin, P McVeigh, A Maule, M Berriman, TA Day, P Ribeiro, CG Grevelding[†]. *Tissue-specific transcriptome analyses provide new insights into GPCR signaling in adult Schistosoma mansoni.* **PLOS Pathogens** 2018. 14(1):e1006718.
2. **NJ Wheeler**, PN Agbedanu, MJ Kimber, P Ribeiro, TA Day, M Zamanian[†]. 2015. *Functional analysis of Girardia tigrina transcriptome seeds pipeline for anthelmintic target discovery.* **Parasites & Vectors** 2015. 8(1):34.
1. M Zamanian, PN Agbedanu, **NJ Wheeler**, P McVeigh, MJ Kimber, TA Day[†]. *Novel RNAi-mediated approach to G protein-coupled receptor deorphanization: proof of principle and characterization of a planarian 5-HT receptor.* **PLOS One** 2012. 7(7):e40787.

PRESENTATIONS

Invited Talks: 12, Selected Talks: 11, Posters: 18

[†] Presenter UWEC undergraduate

41. **NJ Wheeler[†]**. *Quantitative ethology of schistosome miracidia characterizes a conserved snail peptide that inhibits penetration.* Meeting of the American Society of Parasitologists, Winston-Salem, NC July 2025. **(Selected Talk)**

40. S Willett[†], SA Olson[†], CN Nelson, RV Horejsi, **NJ Wheeler**. Transcriptomic, behavioral, and morphometric differences between *Schistosoma mansoni* miracidia recovered from different host tissues. Meeting of the American Society of Parasitologists, Winston-Salem, NC. July 2025. **(Poster)**
39. A De Ruyter[†], H Gensch[†], **NJ Wheeler**. *Integrated sensory behaviors of larval Aedes triseriatus and Aedes aegypti mosquitoes*. Meeting of the American Society of Parasitologists, Winston-Salem, NC. July 2025. **(Poster)**
38. S Maasz-Seawright[†], S Willett, **NJ Wheeler** *Developing Girardia dorotocephala as a model organism for flatworm sensory biology*. Meeting of the American Society of Parasitologists, Winston-Salem, NC. July 2025. **(Poster)**
37. C Nelson[†], R Horejsi, S Maasz-Seawright, **NJ Wheeler**. *A novel device for high-throughput phenotypic screening of schistosome miracidia enables identification of transient receptor potential (TRP) channels modulators that impact miracidia behavior*. Meeting of the American Society of Parasitologists, Winston-Salem, NC. July 2025. **(Poster)**
36. **NJ Wheeler**[‡]. *Quantitative ethology of schistosome miracidia for basic and translational investigations of host-parasite interactions*. Zoom about Parasitic Worms (monthly international seminar series). June 2025. **(Invited Talk)**
35. **NJ Wheeler**[‡]. *Using high-performance computing to study the quantitative ethology of human parasites*. UWEC HPC User Group, Eau Claire, WI. December 2024. **(Invited Talk)**
34. R Horejsi, C Nelson, A De Ruyter, H Gensch, C Weber, M Bagatta, **NJ Wheeler**[†]. *Quantitative ethology of schistosome miracidia and other aquatic invertebrates*. Meeting of the American Society of Parasitologists, Denver, CO. June 2024. **(Selected Talk)**
33. R Horejsi[†], C Nelson[†], C Weber, **NJ Wheeler**. *Developing methods to quantify Schistosoma mansoni miracidia behavior and responsiveness*. Meeting of the American Society of Parasitologists, Denver, CO. June 2024. **(Poster)**
32. A De Ruyter[†], H Gensch[†], M Bagatta, **NJ Wheeler**. *Chemosensory behaviors of larval Aedes triseriatus mosquitoes*. Meeting of the American Society of Parasitologists, Denver, CO. June 2024. **(Poster)**
31. S Willett[‡], Z Caterer, S Mathisen, **NJ Wheeler**. *wrmXpress GUI: A user-friendly interface for high-throughput analysis of parasitic worms*. Meeting of the American Society of Parasitologists, Denver, CO. June 2024. **(Poster)**
30. R Horejsi[†], **NJ Wheeler**. Quantitative ethology of a parasitic flatworm. UWEC Provost's Honors Symposium. April 2024. **(Selected Talk)**
29. Z Caterer[†], S Mathisen[†], M Zamanian, **NJ Wheeler**. *wrmXpress GUI: A user-friendly interface for high-throughput analysis of parasitic worms*. UWEC Celebration of Excellence in Research + Creative Activity. April 2024. **(Poster)**
28. R Horejsi[†], C Weber[†], C Nelson[†], **NJ Wheeler**. *Developing methods to quantify Schistosoma mansoni miracidia behavior and responsiveness*. UWEC Celebration of Excellence in Research + Creative Activity. April 2024. **(Poster)**
27. M Bagatta[†], I Coughlin, **NJ Wheeler**. *Chemosensory behaviors of larval Aedes triseriatus mosquitoes*. UWEC Celebration of Excellence in Research + Creative Activity. April 2024. **(Poster)**
26. M Bagatta[†], I Coughlin[†], R Horejsi[†], M Wettstein, I Malin, JE Smith, **NJ Wheeler** *Intestinal helminths of the California ground squirrel (*Otospermophilus beecheyi*)*. Meeting of the American Society of Parasitologists, Kansas City, MO. July 2023. **(Poster)**
25. A Coffin[‡], S Biser[‡], M Bagatta, M Brenna, C Dovornay, N Ehrike, E McMichael, L Peterson, A Richard, C Smith, C Veeneman, **NJ Wheeler**. *A survey of aquatic snails and trematodes in Eau Claire County*. National Conference on Undergraduate Research, Eau Claire, WI. April 2023. **(Poster)**
24. **NJ Wheeler** *Making sense of sensory behaviors in vector-borne helminths*. Meeting of the American Society of Parasitologists, College Station, TX. July 2022. **(Selected Talk)**

23. NJ Wheeler *Making sense of helminth sensory behaviors*. University of Wisconsin-Eau Claire, Eau Claire, WI. December 2021. **(Invited Talk)**
22. NJ Wheeler *Making sense of helminth sensory behaviors*. University of Wisconsin-Oshkosh, Oshkosh, WI. December 2021. **(Invited Talk)**
21. NJ Wheeler *Making sense of helminth sensory behaviors*. Uniformed Services University of the Health Sciences, Bethesda, MD. April 2021. **(Invited Talk)**
20. NJ Wheeler. *Uncovering the cellular and molecular program of schistosome migrations*. University of Calgary, Faculty of Veterinary Medicine, Calgary, AB. January 2021. **(Invited Talk)**
19. NJ Wheeler, PM Airs, M Zamanian. *Characterization of the chemosensory pathway of filarial worms*. ASTMH, Virtual. November 2020. **(Selected Talk, Young Investigator Award Winner)**
18. NJ Wheeler, NM Dingirard, J Reinhard-Rupp, D Rollinson, TP Yoshino, M Zamanian. *Development of community efforts towards schistosomiasis vector genetic tools and control strategies*. ASTMH, Virtual. November 2020. **(Poster)**
17. NJ Wheeler *Making sense of helminth sensory behaviors*. Texas Tech University, School of Veterinary Medicine, Amarillo, TX. July 2020. **(Invited Talk)**
16. NJ Wheeler, M Zamanian. *Long-read RNA sequencing in neglected human parasites*. Pacific Biosciences North America User Group Meeting, Newark, DE. September 2019. **(Invited Talk)**
15. NJ Wheeler, ZW Heimark, PM Airs, A Mann, LC Bartholomay, M Zamanian. *Genetic and functional diversification of chemosensory pathway receptors in filarial nematode parasites*. World Association for the Advancement of Veterinary Parasitology, Madison, WI. July 2019. **(Poster)**
14. NJ Wheeler, PM Airs, M Zamanian. *Mining the excretory-secretory system of filarial nematodes for new anthelmintic targets*. Bridging the Divide: Parasitic Nematodes Workshop, GSA International C. elegans Conference, Los Angeles, CA, USA. June 2019. **(Invited Talk)**
13. NJ Wheeler, PM Airs, M Zamanian. *Long-read RNA sequencing in neglected human parasites*. Pacific Biosciences Certified Service Provider Launch, Madison, WI, USA. May 2019. **(Invited Talk)**
12. NJ Wheeler, K Gallo, A Golfinos, C Gilsdorf, T Meikle, M Zamanian. *Tissue-specific heterologous expression of Brugia malayi GPCRs in Caenorhabditis elegans*. Molecular Helminthology: An Integrated Approach. San Antonio, TX USA. Apr 2019. **(Poster)**
11. NJ Wheeler, ZW Heimark, T To, E Chen, PM Airs, M Zamanian. *Conserved and divergent aspects of chemosensory signaling in filarial parasitic nematodes*. Molecular Helminthology: An Integrated Approach. San Antonio, TX USA. Apr 2019. **(Poster)**
10. NJ Wheeler, M Zamanian. *New insights into neglected diseases*. University of Wisconsin-Whitewater Biology Forum, Whitewater, WI, USA. March 2019. **(Invited Talk)**
9. NJ Wheeler, PM Airs, M Zamanian. *Exploring new therapeutic targets for neglected parasites*. Department of Pathobiological Sciences Research Seminar, Madison, WI. March 2019 **(Selected Talk)**
8. NJ Wheeler, N Dingirard, J Reinhard-Rupp, TP Yoshino, M Zamanian. *Progress towards transgenesis in Biomphalaria glabrata and implications for snail control*. Global Schistosomiasis Alliance Meeting. New Orleans, LA USA. Oct 2018. **(Selected Talk)**
7. NJ Wheeler, N Dingirard, G Disselhoff, T Maier, EK Namigai, J Tycko, J Reinhard-Rupp, TP Yoshino, M Zamanian. *Towards transgenesis in Biomphalaria glabrata*. 15th International Symposium on Schistosomiasis. Rio de Janeiro, Brazil. July 2018. **(Invited Talk and Poster)**
6. NJ Wheeler, T Meikle, L Fraser, D Srinivasan, T To, PM Airs, MJ Kimber, LC Bartholomay, M Zamanian. *Exploring sensory pathways and behaviors in filarial nematode parasites*. C. elegans Neuronal Development, Synaptic Function & Behavior Topic Meeting, Madison, WI. June 2018. **(Poster)**
5. NJ Wheeler, T Meikle, LC Bartholomay, M Zamanian. *Adapting tools from free-living nematodes to study chemosensory pathways in filarial nematode parasites*. Chicago Area Worm Meeting (CHAWM). Chicago, IL. May 2018. **(Selected Talk)**

4. **NJ Wheeler**, M Zamanian. *Computational and molecular pipelines to combat neglected parasites*. Comparative Biomedical Sciences Recruitment Weekend, Madison, WI. February 2018. **(Selected Talk)**
3. **NJ Wheeler**, M Zamanian, MJ Kimber, TA Day. *The cysloop superfamily of platyhelminths and nematodes*. Molecular Helminthology: An Integrated Approach, Cape Cod, MA. March 2017. **(Poster)**
2. **NJ Wheeler**, M Zamanian, MJ Kimber, TA Day. *Anthelmintic Targets in a Genomic World: a case study in GPCRs*. Anthelmintics: Discovery to Resistance II, San Diego, CA. March 2016. **(Selected Talk)**
1. **NJ Wheeler**, M Zamanian, TA Day. *A Girardia tigrina transcriptome to aid in Neglected Tropical Disease research*. 5th Annual Midwest Neglected Infectious Diseases Meeting, West Bend, IN. July 2015. **(Selected Talk)**

GRANTS & PROJECTS

Submitted proposals

Using a RAG-based chatbot as an upper-level biology tutor

WiSys Ignite

IRB #202542291

Role: Principal Investigator | 2026-2027 | Total Costs: \$50,000

Current funding

Molecular determinants and behavioral fingerprints of schistosome miracidia host-seeking

NIH National Institute of Allergy and Infectious Diseases R15

Role: Principal Investigator | 2024-2027 | Total Costs: \$332,488

Previous funding

Determining the molecular basis of chemosensory behaviors in mosquito-borne filarial nematode parasites

NIH Ruth L. Kirschstein National Research Service Award (NRSA) Individual Postdoctoral Fellowship

Role: Principal Investigator | 2020-2022 | Total Direct Costs: \$137,124

Driving schistosome-resistance in *Biomphalaria*

Merck KGaA Global Health Institute (MGHI) Postdoctoral Fellowship

Role: Principal Investigator. | 2017-2021 | Total Direct Costs: \$200,000

An optimized CRISPR/Cas9 protocol for genome editing in *Schistosoma mansoni*

Iowa State University College of Veterinary Medicine Seed Grant

Role: Primary Author and Co-Investigator. | 2015-2017 | Total Direct Costs: \$40,000

Unfunded proposals

CC* Compute-Campus: Accelerating Undergraduate Education and Discovery in AI-driven and Data-Intensive Science and Engineering.

NSF Campus Cyberinfrastructure (CC*)

Role: Senior Personnel | 2026-2027 | Total Costs: \$669,718

BRC-BIO: Uncovering a chemosensory role for TRP channels in free-living and parasitic flatworms.

NSF BRC-BIO (Scored Highly Meritorious)

Role: Principal Investigator | 2024-2027 | Total Costs: \$500,000

Other internal funding

Total of 9 UWEC ORSP Student-Faculty Research Collaboration & Summer Research Experience for Undergraduates awards

HONORS & AWARDS

2025	ASP Marc Dresden Student Travel Award (x4, awarded to Sophie Willett, Chase Nelson, Avery De Ruyter, and Saige Maasz-Seawright)
2024 2025	UWEC Emerging Mentor in Research, Scholarship, and Creative Activity Award finalist

2024	ASP Marc Dresden Student Travel Award (x2, awarded to Sophie Willett and Rachel Horejsi
2024	UWEC CAS nominee for The Discussion Project
2023	UWEC ORSP Celebration of Scholarship
2020	ASTMH Young Investigator Award First Tier Mention
2016	Anthelmintics Conference Travel Grant
2016	ISU GPSS Professional Advancement Grant
2016	Interdepartmental Genetics and Genomics Travel Award
2015 – 2016	Brown Research Fellowship, Iowa State University
2013 – 2017	Graduate College Fellowship, Iowa State University
2013 – 2017	Biotechnology Fellowship, Iowa State University
2009 – 2013	Jewell Scholarship, William Jewell College

UNDERGRADUATE MENTORSHIP

Current UWEC research mentorship

2025 –	Declan Algrem <i>Blugold Fellow</i>
2025 –	Theodore Schwantes
2025 –	Bailey Stuart
2024 –	Sonja Olson
2024 –	Saige Maasz-Seawright <i>Diversity Mentoring Award</i>
2023 –	Helen Gensch <i>Ralph E. Duxbury Biology Scholarship</i>
2023 –	Sophie Willett
2023 –	Avery De Ruyter
2023 –	Chase Nelson
2022 –	Rachel Horejsi <i>Goldwater Scholar</i> <i>UWEC ORSP Outstanding Undergraduate Research Project Award (x2)</i> <i>UWEC Women In Science Scholarship</i> <i>UWEC Duxbury Student High Achievement Scholarship</i> <i>UWEC Duxbury Lim Scholarship in Experimental Biology Scholarship</i>

Previous UWEC research mentorship

2022 – 2024	Maggie Bagatta Entomology MS student at North Dakota State University
2022 – 2024	Ireland Coughlin
2023 – 2024	Blake Mathisen Manufacturing Engineer I at Beckman Coulter
2023 – 2024	Zach Caterer Biological Engineering PhD student at University of Colorado <i>UWEC Outstanding Biology Senior Awardee</i>
2022 – 2024	Megan Wettstein DVM student at University of Wisconsin-Madison <i>UWEC Outstanding Biology Senior Awardee</i> <i>UWEC Jay Metler Pre-Veterinary Scholarship</i> <i>UWEC Wisconsin Rural Pre-Veterinary Scholarship</i>
2022 – 2024	Carly Weber Process Scientist at Diasorin

UWEC other mentorship

2025	Sophie Willett Service-learning project
2024	Becca VonBank Biology education program - faculty reference
2024	Madelyn Ford BIOL 306 Honors contract
2023	Catie Freymuth Service-learning project
2023	Tiffany Pronschinske Service-learning project
2023	Alex Richard Service-learning project
2023	Claire Veeneman Service-learning project

2023	Isaac Ackerman BIOL 305 Honors contract
2023	Jessica Neu Biology education program - faculty reference
2022	Charlie Dovornay Service-learning project
2022	Max Brenna Service-learning project

Previous mentorship

2019 – 2022	Elena Garncarz Rehborg PhD student at UW-Madison MDTP
2020 – 2022	Lenny Nunn Data Scientist at UW-Madison
2021 – 2022	Michelle Cho
2017 – 2020	Tran To PhD student at Icahn School Medicine at Mount Sinai
2017 – 2019	Eric Chen Analyst at US Government Accountability Office
2017	Alexis Mann PhD student at Johns Hopkins University

SERVICE

Departmental service

2025 –	Biology Brown Bag Seminar Coordinator
2025	Lab Manager Search Committee
2024 –	New Science Building Committee
2022 –	Biology EDI Committee

Other service

2025	Ad hoc reviewer for Czech Science Foundation
2025	Ad hoc reviewer for UK Research and Innovation Funding Service
2025	Ad hoc reviewer for NIH NIAID Transmission of Vector-Borne and Zoonotic Diseases study section
2025	Chair for two sessions at the annual meeting of the American Society of Parasitologists
2024 –	American Society of Parasitologists student awards committee
2024	Panelist for UWEC McNair Program discussion on work-life balance
2023	Chair for two sessions at the National Conference for Undergraduate Research (NCUR)
2022	Chair for two sessions at the annual meeting of the American Society of Parasitologists
2020	Co-chair for the ACMCIP: Parasite Biology, Genomics and Genome Editing session at ASTMH

Service to journals:

See my [Web of Science profile](#) for a validated list of my contributions as an ad-hoc reviewer.

Journals include: *Nature Communications* *BMC Research Notes*, *Microbiology Spectrum*, *Experimental Parasitology*, *BMC Genomics*, *Gene*, *PLOS Neglected Tropical Diseases*, *Molecular and Biochemical Parasitology*, *International Journal for Parasitology: Drugs and Drug Resistance*, *International Journal for Parasitology*, *Computational and Structural Biotechnology Journal*, *Current Research in Parasitology & Vector-Borne Diseases*

AFFILIATIONS AND PROFESSIONAL DEVELOPMENT

2022 -	American Society of Parasitologists
	<ul style="list-style-type: none"> – Member – Council Member-at-Large nominee – Student Awards Committee
2020 -	American Society of Tropical Medicine and Hygiene
	<ul style="list-style-type: none"> – Member
2019 -	Global Schistosomiasis Alliance eliminateschisto.org
	<ul style="list-style-type: none"> – Member of the Research Working Group – Previous leader of the snail/vector control work stream

UWEC Tier 2 EDI Workshops

2024	Biology Department Fall 2024 Digital Accessibility Sessions
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2022	Recognizing and Responding to Microaggressions in the Classroom
2022	Transparent Design Framework Workshop
2022	Teaching Academy I
2022	Teaching Academy II
2022	My Personal Journey and Bias
<i>Other training</i>	
2018	FR3 Minicourse, UW-Oshkosh
2018	WISCIENCE Research Mentor Training, UW-Madison
2016 – 2017	Preparing Future Faculty, Iowa State University