

## I. EMPLOYMENT

Anatomic Pathologist – 2022-present

*Northwest ZooPath, Monroe, WA*

Contract Anatomic Pathologist – 2022

*Bronson Animal Disease Diagnostic Laboratory, Kissimmee, FL*

Locum in Anatomic Pathology – 2021-present

*University of Florida, College of Veterinary Medicine, Gainesville, FL*

## II. EDUCATION/PROFESSIONAL TRAINING

M.S. in Entomology – 2021-2023 – Summa cum laude; 4.00 GPA

*Entomology and Nematology Department, University of Florida, Gainesville, FL*

Anatomic Pathology Residency – 2018-2021

*University of Florida, College of Veterinary Medicine, Gainesville, FL*

Small Animal Clinical Internship – 2017-2018

*Atlantic Coast Veterinary Specialists, Bohemia, NY*

Doctor of Veterinary Medicine – 2013-2017

*Washington State University, College of Veterinary Medicine, Pullman, WA*

B.S. Wildlife Ecology – 2010-2014 – Magna Cum Laude; 3.68 GPA

*Washington State University, Pullman, WA*

## III. REFEREED PUBLICATIONS

- Bogan, Jr., James E., Michael M. Garner, Elise E.B. LaDouceur, Alexandra K. Mason, **Marley E. Iredale**, Amanda Wen, Carolyn Cray, and Jeffery Tyler Etheredge. "Investigating Blood Viscosity in Eastern Indigo Snakes (*Drymarchon couperi*)."  
*Journal of Herpetological Medicine and Surgery*. Published online February 25, 2026. <https://doi.org/10.5818/JHMS-D-25-00028>.
- Miller, Bryce M., Nicole I. Stacy, **Marley E. Iredale**, Judith Kovach-Zukin, Elise LaDouceur, Kathleen Colegrove, Brittany McHale, Grace White, Bethany Doescher, Carolina R. Le-Bert, and Robert J. Ossiboff. "Cutaneous mast cell tumors in California sea lions (*Zalophus californianus*)".  
*Veterinary Pathology*. 2024. <https://doi.org/10.1177/03009858251374690>
- Cottingham, Sydney L., An-Chi Cheng, Pedro H. de Oliveira Viadanna, Kuttichantran Subramaniam, William F. Craft, **Marley E. Iredale**, Samantha M. Wisely, and Juan M. Campos Krauer. 2024. "Mycobacterium kansasii Infection in a Farmed White-Tailed Deer (*Odocoileus virginianus*) in Florida, USA".  
*Animals* 14, no. 10: 1511. <https://doi.org/10.3390/ani14101511>
- **Marley E. Iredale**, Galen Cobb, Emily D. Vu, Saptarshi Ghosh, James D. Ellis, Bryony C. Bonning. "Development of a multiplex real-time quantitative reverse-transcription polymerase chain reaction for the detection of four bee viruses".  
*Journal of Virological Methods* Volume 328, 2024. <https://doi.org/10.1016/j.jviromet.2024.114953>.
- Hannah N. Gurland, James C. Fulton, **Marley E. Iredale**, and Amy Vu. "Monitoring for amoebic disease (*Malpighamoeba mellificae*) in honey bee colonies." UF/IFAS Electronic Data Information System. 2024.
- Courtney Patson, Elizabeth J. Elsmo, Lauren Trepanier, Michael M. Garner, Michael J. Murray, Ellen Bronson, Lorelei L. Clarke, Sherry K. Cox, Robert J. Ossiboff, **Marley E. Iredale**, Bryce M. Miller, Lindsey Waxman, Eric Littman, and Mary I. Thurber. "Fatal acute hemolysis following triazole therapy in African penguins (*Spheniscus demersus*)".  
*Journal of Zoo and Wildlife Medicine* 2024 55(2) doi: 10.1638/2023-0073

- George Elane, Todd Holbrook, **Marley Iredale**, Gemma Cock, Adam Biedrzycki. “Strangulation of the caecum by a pedunculated lipoma in a Rocky Mountain Horse gelding.” *Equine Veterinary Education* 25 January 2024 <https://doi.org/10.1111/eve.13937>
- M. Ashton Boon, **Marley E. Iredale**, Steven B. Tillis, Robert J. Ossiboff; “Ophidian Serpentoviruses: A Review and Perspective”. *Journal of Herpetological Medicine and Surgery* 14 December 2023; 33 (4): 205–216. doi: <https://doi.org/10.5818/JHMS-D-23-00010>
- **Marley E. Iredale**, Pedro H. O. Viadanna, Kuttichantran Subramaniam, Etienne Tardif, Bryony Bonning, James Ellis. “Report of Amoebic Disease in a Colony of Western Honey Bees (*Apis mellifera*)”. *Veterinary Pathology* 14 June 2023; 60 (5): 709-713. doi:10.1177/03009858231179956.
- Steven B. Tillis, Jillian M. Josimovich, Melissa A. Miller, Laura L. Hoon-Hanks, Arik M. Hartmann, Natalie M. Claunch, **Marley E. Iredale**, Tracey D. Logan, Amy A. Yackel Adams, Ian A. Bartoszek, and et al. 2022. "Divergent Serpentoviruses in Free-Ranging Invasive Pythons and Native Colubrids in Southern Florida, United States" *Viruses* 14, 12: 2726.
- Brittany N. Diehl, **Marley E. Iredale**, Federico Vilaplana Grosso, Michael J. Dark, Catalina Cabrera. “Congenital hypospadias and vertebral malformation in a Barbados Blackbelly neonate”. *Clinical Theriogenology* 2022; 14: 22.
- Tasha M. Desiderio, Nicole I. Stacy, Robert J. Ossiboff, **Marley E. Iredale**, Linda L. Archer, Amy B. Alexander, Darryl J. Heard, Sarah E. Crevasse, Daniel V. Fredholm, Kyle A. Donnelly, Justin F. Rosenberg, April L. Childress, Kathy Russell, James F. X. Wellehan Jr.. “Identification of a novel mortality-associated *Helicobacter* Species in Gopher Tortoises (*Gopherus polyphemus*), qPCR test development and validation, and an epidemiologic survey”. *Veterinary Microbiology*. 18 June 2021.
- Steven B. Tillis, **Marley E. Iredale**, April L. Childress, James F.X. Wellehan, Ramiro Isaza, Robert J. Ossiboff. “Identification of a novel Actinomycete in granulomatous cloacal and hemipenal inflammation in captive male ball pythons (*Python regius*)”. *Frontiers in Veterinary Science*. 8 January 2021.
- Katherine H. Haman, Deanna H. Olson, Matthew Gray, Reid Harris, Tracy Thompson, **Marley E. Iredale**, Michelle Christman, Jennifer Williams, Michael J. Adams, Jennifer Ballard. “Enhanced Biosecurity to Minimize Herpetofaunal Disease-Causing Pathogen Transmission at High-Risk Field Sites”. *Herpetological Review*. 2021.
- Heather DS Walden, **Marley E Iredale**, April Childress, Jim F X Wellehan, Robert James Ossiboff. “Invasive pentastomes, *Raillietiella orientalis* (Sambon, 1922), in a free-ranging banded water snake (*Nerodia fasciata*) in north central Florida”. *Frontiers in Veterinary Science*. 04 August 2020.
- Marta Garbin, Adam W Stern, **Marley E Iredale**, Marta Romano. “Pheochromocytoma in a horse undergoing exploratory laparotomy”. *Journal of the American Veterinary Medical Association*. 15 July 2020.

#### IV. NON-REFEREED PUBLICATIONS

- Kaylin Kleckner and **Marley E. Iredale**. “Roles in a Honey Bee Lab”. *Bee Culture*. June 2023.

#### V. RESEARCH PRESENTATIONS

- “Hepatozoonosis in a Captive Mexican Black Kingsnake”. **Marley E. Iredale**, Marianne Caron, Robert J. Ossiboff, and Michael M. Garner. Association for Reptile and Amphibian Veterinarians Annual Conference. August 2025. Submitted.
- “Hyperbaric Oxygen Therapy as Adjunctive Therapy for *Plasmodium* spp. Outbreak Magellanic Penguins (*Spheniscus magellanicus*)”. Kaitlyn Cashin, Victoria Milne, and **Marley E. Iredale**. American Association of Zoo Veterinarians Annual Conference. August 2025. Submitted.
- “Report of *Malpighamoeba mellificae* in a colony of western honey bees (*Apis mellifera*)”. **Marley E. Iredale**, Pedro H.O. Viadanna, Kuttichantran Subramaniam, Etienne Tardif, Bryony Bonning, James

Ellis. Oral Presentation. Davis-Thompson Foundation Invertebrate Day Seminar. September 2024. Invited.

- “Squamous Cell Carcinoma in Red-Eared Sliders (*Trachemys scripta elegans*)”. **Marley E. Iredale** and Michael M. Garner. Association for Reptile and Amphibian Veterinarians Annual Conference. August 2024. Submitted.
- “Leptospirosis in a California Sea Lion”. **Marley E. Iredale**, Michael M. Garner, Wm. Kirk Suedmeyer. Oral Presentation. Southeastern Veterinary Pathology Conference. May 2024. Submitted.
- “Medical and Surgical Management of a Pharyngeal Spindle Cell Sarcoma in an Atlantic Stingray (*Hypanus sabinus*)”. Kathryn A. Taxbury, Melissa J. Joblon, Sarah Balik, Charles J. Innis, **Marley E. Iredale**, Nancy L. Stedman, Michael M. Garner. Oral Presentation. International Association for Aquatic Animal Medicine Annual Conference. 2024. Submitted.
- “Description of Amoebic Disease of Western Honey Bees (*Apis mellifera*)”. **Marley E. Iredale**, Pedro H.O. Viadanna, Kuttichantran Subramaniam, Etienne Tardif, Bryony Bonning, James Ellis. Oral Presentation. Bee Informed Partnership Colloquium. January 2023. Invited.
- “Description of Amoebic Disease of Western Honey Bees (*Apis mellifera*)”. **Marley E. Iredale**, Pedro H.O. Viadanna, Kuttichantran Subramaniam, Etienne Tardif, Bryony Bonning, James Ellis. Oral Presentation. American Bee Research Conference. January 2023. Submitted.
- “Characterization of Amoebic Disease in a Colony of Western Honey Bees (*Apis mellifera*)”. **Marley E. Iredale**, Pedro H.O. Viadanna, Kuttichantran Subramaniam, Etienne Tardif, Bryony Bonning, James Ellis. Poster Presentation. Florida Entomologic Society Annual Meeting. June 2022. Submitted.
- “Herpesvirus Infection in Yellow-backed Duikers (*Cephalophus sibiliculator*)”. Bryce Miller, **Marley E. Iredale**, Lisa Farina, James F. X. Wellehan Jr., Robert J. Ossiboff. Oral Presentation. CL Davis and American Association of Zoo Veterinarians. Zoo and Wildlife Pathology Workshop. October 2021. Submitted.
- “Oligochaetosis in anuran amphibians”. **Marley E. Iredale**, Heather S. Walden, Lisa L. Farina, Allan P. Pessier, Jack K. Frenkel, Robert J. Ossiboff. Poster Presentation. American Association for Zoo Veterinarians. Annual Conference. September 2020. Submitted.
- “Leukemia in a population of California newts (*Taricha torosa*)”. **Marley E. Iredale**, Jill Spangenberg, Robert J. Ossiboff. Oral Presentation. CL Davis and American Association of Zoo Veterinarians. Zoo and Wildlife Pathology Workshop. September 2020. Submitted.
- “Intranuclear Coccidiosis in a Galápagos tortoise (*Chelonoidis nigra*). Bryce Miller, **Marley E. Iredale**, Nicole Stacy, Robert J. Ossiboff. Oral Presentation. CL Davis and American Association of Zoo Veterinarians. Zoo and Wildlife Pathology Workshop. September 2020. Submitted.
- “Mycoplasmosis in American alligators (*Alligator mississippiensis*)”. Megan Caudill, Gen Anderson, Jim Darlington, Lauren Gruny, Albert B. Jeon, Erin A. Graham, **Marley E. Iredale**, Emily Brenner, Amy B. Alexander, James F. X. Wellehan Jr., April Childress, Marissa Valentine-King, Mary Brown, Sreekumari Rajeev, Darryl Heard, Robert J. Ossiboff. Oral Presentation. CL Davis and American Association of Zoo Veterinarians. Zoo and Wildlife Pathology Workshop. September 2020. Submitted.
- “Mycoplasmosis in American alligators (*Alligator mississippiensis*): Recrudescence after a quarter of a century with a novel clinical manifestation”. Robert J. Ossiboff, Gen Anderson, Jim Darlington, Lauren Gruny, Megan Caudill, Albert B. Jeon, Erin A. Graham, **Marley E. Iredale**, Emily Brenner, Amy B. Alexander, James F. X. Wellehan Jr., April Childress, Marissa Valentine-King, Mary Brown, Sreekumari Rajeev, Darryl Heard. Oral Presentation. American Association for Zoo Veterinarians. Annual Conference. September 2020. Submitted.

- “Pneumatosis in the intestine of a lined seahorse (*Hippocampus erectus*)”. **Marley E. Iredale**, Craig A. Pelton, Salvatore Frasca Jr. Oral Presentation. International Association for Aquatic Animal Medicine. Annual Conference. May 2020. Submitted.
- “*Raillietiella orientalis*, an invasive pentastome, in a banded water snake (*Nerodia fasciata*) in north central Florida”. Heather Walden, **Marley E. Iredale**, April Childress, James Wellehan, Jr., Robert Ossiboff. Oral Presentation. American Association of Veterinary Parasitologists. Annual Conference. June 2020.
- “Oligochaetosis”. **Marley E. Iredale**, Heather S. Walden, Lisa L. Farina, Allan P. Pessier, Jack K. Frenkel, Robert J. Ossiboff. Oral Presentation. Southeastern Veterinary Pathology Conference. May 2019. Submitted.
- “Determining the cause of shell disease in the Western Pond Turtle (*Actinemys marmorata*): CT and visual assessment for disease screening”. **Marley E. Iredale**, Katherine Haman, Gretchen Kaufman. Poster Presentation. Washington State University College of Veterinary Medicine. Veterinary Research Symposium. Submitted.
  - 1st Place
- “Determining the cause of shell disease in the Western Pond Turtle (*Actinemys marmorata*): An imaging study using CT and Bone Densitometry”. **Marley E. Iredale**, Katherine Haman, Gretchen Kaufman. Poster Presentation. Morris Animal Foundation. Veterinary Student Research Program. June 2016. Submitted.
  - 2nd Place
- “Determining the cause of shell disease in the Western Pond Turtle (*Actinemys marmorata*): An imaging study using CT and Bone Densitometry”. **Marley E. Iredale**, Katherine Haman, Gretchen Kaufman. Poster Presentation. Washington State University College of Veterinary Medicine. Veterinary Research Symposium. October 2015. Submitted.
- “Determining the cause of shell disease in the Western Pond Turtle (*Actinemys marmorata*): A microbial and histopathological investigation”. **Marley E. Iredale**, Katherine Haman, Kevin Snekvik, Gretchen Kaufman. Poster Presentation. Washington State University College of Veterinary Medicine. Veterinary Research Symposium. October 2014. Submitted.

## VI. OTHER PRESENTATIONS

- “Gross Lesion Recognition for the Small Mammal Clinician”. Michael M. Garner and **Marley E. Iredale**. Association for Exotic Mammal Veterinarians Annual Conference. August 2025. Submitted.
- “Gross Lesion Recognition for the Reptile Clinician”. Michael M. Garner and **Marley E. Iredale**. Association for Reptile and Amphibian Veterinarians Annual Conference. August 2025. Submitted.
- “Gross Lesion Recognition in Small Exotic Mammals”. **Marley E. Iredale** and Michael M. Garner. Exotic Veterinary Academy. July 2025. Invited.
- “Gross Lesion Recognition for the Small Mammal Clinician”. Michael M. Garner and **Marley E. Iredale**. Association for Exotic Mammal Veterinarians Annual Conference. August 2024. Submitted.
- “Gross Lesion Recognition for the Reptile Clinician”. Michael M. Garner and **Marley E. Iredale**. Association for Reptile and Amphibian Veterinarians Annual Conference. August 2024. Submitted.
- “Gut Pathogens of Honey Bees”. **Marley E. Iredale**. Hybrid Lecture and Laboratory. Florida State Beekeepers Association. Annual Conference. Gainesville, FL. October 2023.
- “Veterinarians and Honey Bee Medicine”. **Marley E. Iredale**. Oral Presentation. Florida State Beekeepers Association. Annual Conference. Gainesville, FL. October 2023.
- “Honey Bee Anatomy and Disease Diagnostics”. **Marley E. Iredale**. Hands-on Laboratory. Honey Bee Veterinary Consortium. Annual Conference. Raliegh, NC. October 2023.

- “Working with Beekeepers”. **Marley E. Iredale**. Oral Presentation. Honey Bee Veterinary Consortium. Annual Conference. Raleigh, NC. October 2023.
- “Oligochaetosis: An overview and case presentation”. **Marley E. Iredale**, Heather S. Walden, Lisa L. Farina, Allan P. Pessier, Jack K. Frenkel, Robert J. Ossiboff. Oral Presentation. University of Florida College of Veterinary Medicine. Resident Seminar. Gainesville, FL. January 2020.
- “Actinomycosis: An overview and case presentation”. **Marley E. Iredale**. Oral Presentation. University of Florida College of Veterinary Medicine. Resident Seminar. Gainesville, FL. April 2019.
- “Plant-herbivore interactions and global climate change: a comparison of the consumption of a plant secondary metabolite by a generalist herbivore between subspecies and season”. **Marley E. Iredale**, Lisa Shipley. Oral Presentation. Washington State University Honors College. Honors Thesis. Pullman, WA. May 2013.
  - Passed with distinction

## VII. EXTENSION AND OUTREACH PRESENTATIONS

Honey Bee College – “Gut Pathogens of Honey Bees” – March 2024

*University of Florida, Honey Bee Research and Extension Laboratory, Gainesville, FL*

Club Presentation – “Gut Pathogens of Honey Bees” – September 2023

*Nassau County Beekeepers Association, Callahan, FL*

Club Presentation – “Gut Pathogens of Honey Bees” – August 2023

*Clay County Beekeepers Association, Cove Springs, FL*

Club Presentation – “Gut Pathogens of Honey Bees” – June 2023

*Jacksonville Beekeepers Association, Jacksonville, FL*

Honey Bee College – “Viral Diseases of Honey Bees” – March 2023

*University of Florida, Honey Bee Research and Extension Laboratory, Gainesville, FL*

Honey Bee College – “Gut Pathogens of Honey Bees” – March 2023

*University of Florida, Honey Bee Research and Extension Laboratory, Gainesville, FL*

Club Presentation – “Possible Career Paths in Veterinary Pathology” – January 2023

*Student Chapter of the American College of Veterinary Pathologists, University of Florida, College of Veterinary Medicine, Gainesville, FL*

Kids and Bees 2023

*American Beekeeping Federation Annual Meeting, Jacksonville, FL*

Master Beekeepers Question and Answer Session – October 2022

*University of Florida, Honey Bee Research and Extension Laboratory, Online*

Club Presentation – “Viral Diseases of Honey Bees” – September 2022

*Citrus County Beekeepers, Online*

Honey Bee College – “Viral Diseases of Honey Bees” – August 2022

*Panama City, FL*

Club Presentation – “How to Support Honey Bees and Native Pollinators” – August 2022

*Royal Highlands Garden Club, Leesburg, FL*

Club Presentation – “Amoebic Disease of Honey Bees” – July 2022

*Gainesville Area Bee Club, Gainesville, FL*

Club Presentation – “Viral Diseases of Honey Bees” – June 2022

*Western Apiculture Society, Online*

Club Presentation – “Viral Diseases of Honey Bees” – May 2022

*Nassau County Beekeepers, Callahan, FL*

BugFest – April 2022

*University of Florida, Department of Entomology and Nematology, Gainesville, FL*  
Master Beekeepers Question and Answer Session – April 2022  
*University of Florida, Honey Bee Research and Extension Laboratory, Online*  
Honey Bee College – “Viral Diseases of Honey Bees” and “Bacterial and Fungal Diseases of Honey Bees” –  
March 2022  
*University of Florida, Honey Bee Research and Extension Laboratory, Gainesville, FL*  
Club Presentation – “Viral Diseases of Honey Bees” – February 2022  
*Queen of America Honey, Belleview, FL*  
Master Beekeepers Question and Answer Session – October 2021  
*University of Florida, Honey Bee Research and Extension Laboratory, Online*  
Panel for Undergraduate Students Interested in Veterinary Medicine – February 2020  
*University of Florida, College of Veterinary Medicine, Gainesville, FL*  
Panel for Veterinary Students Interested in Internship/Residency – November 2019  
*University of Florida, College of Veterinary Medicine, Gainesville, FL*

## VIII. DIDACTIC TEACHING

VEM 5161 General Pathology – “Cancer Epidemiology” – September 2022  
*University of Florida, College of Veterinary Medicine, Gainesville, FL*  
VEM 5161 General Pathology – “Cancer Epidemiology” – September 2021  
*University of Florida, College of Veterinary Medicine, Gainesville, FL*  
VEM 5162 Systemic Pathology – “Lymphoid Pathology” – February 2021  
*University of Florida, College of Veterinary Medicine, Gainesville, FL*  
VEM 5161 General Pathology – “Repair and Regeneration” – September 2020  
*University of Florida, College of Veterinary Medicine, Gainesville, FL*  
VEM 5164 Small Animal Pathology – “Lymphoid Pathology” – January 2020  
*University of Florida, College of Veterinary Medicine, Gainesville, FL*

## IX. TEACHING ASSISTANTSHIPS

ENY4573/6572 - Beekeeping I/Apiculture I – Spring 2023  
*Entomology and Nematology Department, University of Florida, Online*  
ENY4573/6572 - Beekeeping I/Apiculture I – Summer 2022  
*Entomology and Nematology Department, University of Florida, Online*  
VEM 5751 Approach to Applied Pathology – 2018-2021  
*University of Florida, College of Veterinary Medicine, Gainesville, FL*  
VEM 5162 Systemic Pathology – 2019-2021  
*University of Florida, College of Veterinary Medicine, Gainesville, FL*  
VEM 5161 General Pathology – 2018-2020  
*University of Florida, College of Veterinary Medicine, Gainesville, FL*  
VET\_MED 588 Radiology – 2015 & 2016  
*Washington State University, College of Veterinary Medicine, Pullman, WA*

## X. GRANTS AND SCHOLARSHIPS

Nan Yao Su Scholarship (\$1,000) – 2023  
*University of Florida, Entomology and Nematology Department, Gainesville, FL*  
Foundation for the Preservation of Honey Bees Scholar (\$5,000) – 2023  
*American Beekeeping Federation, Jacksonville, FL*

Veterinary Research Scholars Program (\$5,000) – 2016

*Morris Animal Foundation, Denver, CO*

Summer Research Fellowship (\$6,000) – 2015

*Washington State University, College of Veterinary Medicine, Pullman, WA*

Summer Research Fellowship (\$6,000) – 2014

*Washington State University, College of Veterinary Medicine, Pullman, WA*

## **XI. COLLABORATIONS**

- “Taking the sting out of honey bee medicine: Training and tools for veterinarians to increase access to care for beekeepers.” 2022 North Central Research and Education Grant. November 1, 2022 – October 31, 2025. Amount funded: \$250,000.

## **XII. PROFESSIONAL ORGANIZATIONS**

Association of Exotic Mammal Veterinarians – 2025-Present

*Member*

Association of Reptile and Amphibian Veterinarians – 2024-Present

*Member*

American Association of Zoo Veterinarians – 2025-Present

*Member*

American College of Veterinary Pathologists – 2020-Present

*Member*

Honey Bee Veterinary Consortium – 2020-Present

*Member*

Gainesville Beekeepers Association – 2020-2023

*Member*

Florida State Beekeepers Association – 2020-2023

*Member*

Prevention of Honey Bee Colony Losses – 2020-2023

*Member*

International Bee Research Association – 2020-2023

*Member*

## **XIII. REVIEWERSHIP**

Invited Reviewer

*Animals*

Invited Reviewer

*PLOS ONE*

Invited Reviewer

*Applied Sciences*

Invited Reviewer

*Veterinary Pathology*

Invited Reviewer

*Frontiers in Evolutionary and Genomic Microbiology*

Invited Reviewer

*Frontiers in Cellular and Infection Microbiology*

## XIV. MENTORSHIP

- Diagnostic Challenge Facilitator – November 2025  
*Washington State University, College of Veterinary Medicine, Pullman, WA*
- Diagnostic Challenge Case Development – May-August 2025  
*Washington State University, College of Veterinary Medicine, Online*
- Diagnostic Challenge Facilitator – November 2024  
*Washington State University, College of Veterinary Medicine, Pullman, WA*
- Diagnostic Challenge Case Development – May-August 2024  
*Washington State University, College of Veterinary Medicine, Online*
- Diagnostic Challenge Facilitator – November 2023  
*Washington State University, College of Veterinary Medicine, Pullman, WA*
- Diagnostic Challenge Case Development – May-August 2023  
*Washington State University, College of Veterinary Medicine, Online*
- Diagnostic Challenge Facilitator – November 2022  
*Washington State University, College of Veterinary Medicine, Pullman, WA*
- Diagnostic Challenge Case Development – May-August 2022  
*Washington State University, College of Veterinary Medicine, Online*
- Diagnostic Challenge Facilitator – November 2020  
*Washington State University, College of Veterinary Medicine, Online*
- Veterinary Student Summer Research Project – 2020  
*Morris Animal Foundation, Denver, CO*

## XV. PROFESSIONAL DEVELOPMENT

- Invertebrate Pathology Conference – September 2024  
*Davis-Thompson Foundation, Online*
- Invertebrate Pathology Conference – April 2022  
*Davis-Thompson Foundation, Online*
- Symposium on Reproductive Pathology – May 2021  
*Davis-Thompson Foundation, Online*
- Symposium on Diseases of Honey Bees – January 2021  
*Davis-Thompson Foundation, Online*
- Symposium on Diagnostic Pathology of Wildlife Diseases – October 2020  
*Davis-Thompson Foundation, Online*
- Honey Bee College – August 2020  
*University of Florida, IFAS Extension, Online*
- Seminar on Diseases of Aquatic and Zoo Animals – June 2020  
*Davis-Thompson Foundation, Online*
- Referring Veterinarian Continuing Education Day – June 2019  
*University of Florida, College of Veterinary Medicine, Gainesville, FL*
- Residency Application Committee – 2019  
*University of Florida, College of Veterinary Medicine, Anatomic Pathology Department, Gainesville, FL*
- Conservation Medicine and Diseases of Amphibians and Reptiles Course – June 2016  
*American Museum of Natural History, Southwest Research Station, AZ*
- Research Scholars Program – 2014-2016  
*Washington State University, College of Veterinary Medicine, Pullman, WA*
- CAHNRS Student Ambassador – 2012-2013

*Washington State University, College of Agricultural, Human, and Natural Resource Sciences, Pullman, WA*

## **XVI. CONFERENCES ATTENDED**

Exotic365 – August 2025

*Seattle, WA*

Southeastern Veterinary Pathology Conference – May 2025

*University of Georgia, Tifton, GA*

AEMV and ARAV Joint Conference – August 2024

*New Orleans, LA*

Southeastern Veterinary Pathology Conference – May 2024

*University of Georgia, Tifton, GA*

Honey Bee Veterinary Consortium Conference – October 2023

*North Carolina State University, Raleigh, NC*

Southeastern Veterinary Pathology Conference – May 2023

*University of Georgia, Tifton, GA*

American Beekeeping Federation Annual Meeting – January 2023

*Jacksonville, FL*

American Bee Research Conference – January 2023

*Jacksonville, FL*

Society for Invertebrate Pathology Annual Meeting – August 2022

*Online*

Florida Entomological Society Annual Meeting – June 2022

*University of Florida, Gainesville, FL*

Southeastern Veterinary Pathology Conference – May 2022

*University of Georgia, Tifton, GA*

North American Bee Research Conference – January 2022

*Online*

17th COLOSS Conference – October 2021

*Online*

Honey Bee Veterinary Consortium Annual Conference – October-December 2021

*Online*

16th COLOSS Conference – October 2020

*Online*

American Association of Zoo Veterinarians Annual Conference – September 2020

*Online*

International Association of Aquatic Animal Medicine Annual Symposium – June 2020

*Online*

Southeastern Veterinary Pathology Conference – May 2019

*University of Georgia, Tifton, GA*

## **XVII. CERTIFICATES AND LICENSES**

Board Certification – October 2021

*American College of Veterinary Pathologists*

Category II Veterinary Accreditation – October 2020

*USDA - APHIS*

State Veterinary License – 2018-Present

*Florida*

State Veterinary License – 2017-2018

*New York*

Honors Certificate of Completion – May 2014

*Honors College, Washington State University, Pullman, WA*

## **XVIII. EXAMINATIONS**

American College of Veterinary Pathologists Phase II Certifying Examination – August 2021

*Passed*

American College of Veterinary Pathologists Phase I Certifying Examination – March 2020

*Passed*

Florida State Veterinary Licensing Examination – October 2018

*Passed*

North American Veterinary Licensing Examination (NAVLE) – November 2016

*Passed*

## **XIX. HONORS AND AWARDS**

Pathology Trainee and Scholarship Award – 2022

*Davis-Thompson Foundation for Veterinary and Comparative Pathology*

Intern of the Year - 2018

*Atlantic Coast Veterinary Specialists, Bobemia, NY*

2nd Place in the Veterinary Student Research Program – 2016

*Morris Animal Foundation, Denver, CO*

1st Place in the Veterinary Research Symposium – 2016

*Washington State University, College of Veterinary Medicine, Pullman, WA*

1st Place in Earth Science – 2009

*International Science and Engineering Fair, Reno, NV*