



Education

North Carolina State University

Raleigh, NC

- PhD, Comparative Biomedical Sciences, August 2016 – December 2020
 - Concentration area: Population Medicine
- Teaching in Biomedical Sciences Certificate, December 2020

Cornell University College of Veterinary Medicine

Ithaca, NY

- DVM, June 2012

Stanford University

Stanford, CA

- MS, Biological Sciences, June 2006
- BS with Honors, Individually Designed Major in Astrobiology, June 2006
 - Thesis: *The Role of Nucleotide Excision Repair and Photoreactivation Repair in Correcting UV Induced DNA Damage in S. Cerevisiae*

Professional Experience

Clinical Assistant Professor, Small Animal Internal Medicine

University of Wisconsin: October 2020-present

Madison, WI

- Supervisory case responsibility for inpatient and outpatient Internal Medicine specialty service at UW teaching hospital
- Supervise rotating interns and SAIM and other specialty residents
- Instruct 4th year veterinary students on clinical rotations and preclinical veterinary students in lecture and laboratory courses
- Research focusing on epidemiology and modeling vector borne zoonotic diseases in a One Health context

Clinician Investigator Resident, Small Animal Internal Medicine

North Carolina State University: July 2015- July 2018

Raleigh, NC

- Primary case responsibility for inpatient and outpatient Internal Medicine specialty service at NCSU teaching hospital; related specialty rotations, teaching responsibilities for interns and veterinary students
- Achieved board-certification in Small Animal Internal Medicine through the American College of Veterinary Internal Medicine
- Research focusing on epidemiology of *Bartonella* infection in dogs

Associate Veterinarian

Brighton-Eggert Animal Clinic: January 2014-June 2015

Tonawanda, NY

- Companion animal preventative medicine and urgent care, with caseload approx. 200 patients per month

Emergency Veterinarian

Veterinary Emergency Clinic: August 2013-February 2014

Cheektowaga, NY

- Managed inpatient and outpatient emergency and critical care at a nights-and-weekends only hospital

Assistant Professor

D'Youville College: August 2013-May 2014

Buffalo, NY

- Developed original curriculum for, and taught, introductory chemistry course at Middle Early College High School, a five-year program in which successful students graduate with a high school diploma and Associates Degree (four sections of 20-30 students in grades 10-12)

Small Animal Rotating Intern

Veterinary Emergency and Referral Group: June 2012-July 2013

Brooklyn, NY



- Maintained primary case responsibility for inpatient and outpatient emergency and critical care services in busy urban 24-hour emergency hospital; expanded skills during specialty rotations

Research Assistant

Las Cruces Biological Station: July-Aug 2010

San Vito, Costa Rica

- Collaborated with an international team of researchers and assistants to establish field test plots and collect data on seed predation and sapling growth in tropical rainforest ecosystems; assisting graduate students from University of Georgia on their thesis research

Post Graduate Researcher

University of California San Francisco, McDonald Lab: 2006-2008

San Francisco, CA

- Lab dedicated to in vivo research on the cellular mechanisms of angiogenesis, microvascular remodeling, and plasma leakage in animal models of chronic inflammation and neoplasia
- Developed research skills working directly with senior scientists and post-doctoral scholars on all steps of scientific process; wrote multiple manuscripts as contributing and lead author, contributed to grant writing; presented literature reviews at weekly lab meeting

Publications (last 5 years)

Complete list of published work: <https://www.ncbi.nlm.nih.gov/sites/myncbi/erin.lashnits.2/bibliography/public/>

- Barash NR, **Lashnits E**, Kern ZT, Tolbert MK, Lunn KF. Outcomes of esophageal and gastric bone foreign bodies in dogs. *J Vet Intern Med.* 2022 Feb 14: Epub ahead of print
- Neupane P, Maggi RG, Basnet M, **Lashnits E**, Andrews GP, Breitschwerdt EB. *Bartonella henselae* Recombinant Pap31 for the Diagnosis of Canine and Human Bartonellosis. *Pathogens.* 2022 Jan 28;11(2).
- **Lashnits E**, Thatcher B, Carruth A, Mestek A, Buch J, Beall M, Neupane P, Chandrashekar R, Breitschwerdt EB. *Bartonella* spp. seroepidemiology and associations with clinicopathologic findings in dogs in the United States. *J Vet Intern Med.* 2022 Jan;36(1):116-125.
- Manvell C, Ferris K, Maggi R, Breitschwerdt EB, **Lashnits E**. Prevalence of Vector-Borne Pathogens in Reproductive and Non-Reproductive Tissue Samples from Free-Roaming Domestic Cats in the South Atlantic USA. *Pathogens.* 2021 Sep 21;10(9).
- **Lashnits E**, Neupane P, Bradley JM, Richardson T, Maggi RG, Breitschwerdt EB. Comparison of Serological and Molecular Assays for *Bartonella* Species in Dogs with Hemangiosarcoma. *Pathogens.* 2021 Jun 23;10(7).
- **Lashnits E**, Maggi R, Jarskog F, Bradley J, Breitschwerdt E, Frohlich F. Schizophrenia and *Bartonella* spp. Infection: A Pilot Case-Control Study. *Vector Borne Zoonotic Dis.* 2021 Jun;21(6):413-421.
- Gin TE, **Lashnits E**, Wilson JM, Breitschwerdt EB, Qurollo B. Demographics and travel history of imported and autochthonous cases of leishmaniosis in dogs in the United States and Canada, 2006 to 2019. *J Vet Intern Med.* 2021 Mar;35(2):954-964.
- Breitschwerdt EB, Bradley JM, Maggi RG, **Lashnits E**, Reicherter P. *Bartonella* Associated Cutaneous Lesions (BACL) in People with Neuropsychiatric Symptoms. *Pathogens.* 2020 Dec 4;9(12).
- Easley F, Holowaychuk M, **Lashnits E**, Nordone S, Marr H, Birkenheuer A. Evaluation of serum procalcitonin in dogs with induced endotoxemia. *J Vet Intern Med.* 2020 Mar;34(2):653-658.
- **Lashnits E**, Neupane P, Bradley J, Richardson T, Thomas R, Linder K, Breen M, Maggi R, Breitschwerdt E. Molecular prevalence of *Bartonella*, *Babesia*, and hemotropic *Mycoplasma* species in dogs with hemangiosarcoma from across the United States. *PLOS One.* 2020; 15(1): e0227234.
- Purswell EK, **Lashnits EW**, Breitschwerdt EB, Vaden SL. A retrospective study of vector-borne disease prevalence in dogs with renal proteinuria: Southeastern United States. *J Vet Intern Med.* 2020 Mar;34(2):742-753.
- **Lashnits E**, Neupane P, Maggi R, Linder K, Bradley J, Balakrishnan N, Southern B, McKeon G, Chandrashekar R, Breitschwerdt E. Detection of *Bartonella* spp. in dogs after experimental infection with *Rickettsia rickettsii*. *J Vet Intern Med.* 2020 Jan;34(1):145-159.



- **Lashnits EW**, Dawson DE, Breitschwerdt E, Lanzas C. Ecological and Socioeconomic Factors Associated with *Bartonella henselae* Exposure in Dogs Tested for Vector-Borne Diseases in North Carolina. *Vector Borne Zoonotic Dis.* 2019 Aug;19(8): 582-595.
- **Lashnits E**, Grant S, Thomas B, Qurollo B, Breitschwerdt EB. Case Report: Evidence for vertical transmission of *Mycoplasma haemocanis*, but not *Ehrlichia ewingii*, in a dog. *J Vet Intern Med.* 2019 Jul;33(4): 1747-52.
- **Lashnits E**, Correa M, Hegarty BC, Birkenheuer A, Breitschwerdt EB. *Bartonella* seroepidemiology in dogs from North America, 2008-2014. *J Vet Intern Med.* 2018 Jan;32 (1): 222-231.

Selected Presentations

Midwest Veterinary Conference

Columbus, OH

February 2022

- Oral CE presentations (1 hr each): Flea-borne disease in free-roaming cats; Zoonotic *Bartonella* infection and neuropsychiatric disease in humans; Bartonellosis in dogs and cats; Vector-borne disease in a one health context (2 parts); SARS-CoV2 infections in non-human animals; Human pathogens associated with *Ixodes scapularis*

ACVIM ACE Course: Infectious Diseases: A Comprehensive Update

Online

April 2021

- Oral presentation: Diagnostic Testing for Bartonellosis: An Update; Group Panel Discussion and Q+A on Vector-Borne and Other Emerging Infectious Diseases

ACVIM Forum

June 2020

Online

- Abstract poster presentation: Flea-borne bacterial pathogens from free roaming cats and their fleas

Triangle Global Health Conference

October 2019

Durham, NC

- Abstract poster presentation: A novel perspective on mental illness: *Bartonella* infection in a population of chronically ill people with self-reported neuropsychiatric symptoms
- Selected breakout panel presentation, organizer and moderator: Pathways to One Health Research in Vector-Borne Disease

International Conference on *Bartonella* as an Emerging Pathogen

September 2019

Maisons-Alfort, France

- Abstract oral presentation: A novel perspective on mental illness: *Bartonella* infection in a population of chronically ill people with self-reported neuropsychiatric symptoms

NCSU CVM Research Forum

August 2019

Raleigh, NC

- Abstract poster presentation: A novel perspective on mental illness: *Bartonella* infection in a population of chronically ill people with self-reported neuropsychiatric symptoms

NCSU Comparative Medicine Institute Symposium

August 2019

Raleigh, NC

- Abstract poster presentation: A novel perspective on mental illness: *Bartonella* infection in a population of chronically ill people with self-reported neuropsychiatric symptoms

Seminar Series, Galaxy Diagnostics

July 2019

Morrisville, NC

- Invited speaker: Vector-borne diseases in cats



ACVIM Forum

June 2019

Phoenix, AZ

- Abstract oral presentation: Molecular prevalence of *Bartonella*, *Babesia*, and hemotropic *Mycoplasma* species in dogs with hemangiosarcoma
- Abstract oral presentation: A novel perspective on mental illness: *Bartonella* infection in a population of chronically ill people with self-reported neuropsychiatric symptoms
- Session moderator: Small Animal Internal Medicine Research Abstracts

NCSU Graduate Research Symposium

March 2019

Raleigh, NC

- Abstract poster presentation: Ecological and socioeconomic drivers of *Bartonella henselae* exposure in dogs in North Carolina

NIH OD T32 Comparative Medicine Training Grants Joint Retreat

September 2018

Minneapolis, MN

- Research oral presentation: Vector-borne disease epidemiology and modeling in a One Health context

NCSU Comparative Medicine Institute Symposium

August 2018

Raleigh, NC

- Abstract poster presentation: Ecological and socioeconomic drivers of *Bartonella henselae* exposure in dogs in North Carolina

NCSU CVM Research Forum

August 2018

Raleigh, NC

- Abstract poster presentation: Ecological and socioeconomic drivers of *Bartonella henselae* exposure in dogs in North Carolina

Comparative Pathology Seminar Series, Stanford University School of Medicine

June 2018

Stanford, CA

- Invited speaker: “Vector-borne disease epidemiology and One Health: Transmission and disease manifestation of *Bartonella* species infection in dogs and humans.” June, 2018

NCSU House Officer Seminar Series

September 2017

Raleigh, NC

- “Epidemiology of Canine Bartonellosis”

NCSU CVM Research Forum

August 2017

Raleigh, NC

- Abstract oral presentation: *Bartonella* seroepidemiology in dogs from North America, 2008-2014

ACVIM Forum

June 2017

National Harbor, MD

- Abstract oral presentation: *Bartonella* seroepidemiology in dogs from North America, 2008-2014
 - Winner of ACVIM Resident Research Award

NCSU House Officer Seminar Series

October 2016

Raleigh, NC

- “Canine Bartonellosis: The hot new trend in fevers”

Science on Stage, NC Museum of Natural Sciences

September 2016

Raleigh, NC

- Selected TED-style talk: “Fighting like cats and dogs: Cat scratch fever in pet dogs”

Grants



Submitted/pending review

Awarded

AKC Canine Health Foundation (CHF Grant No. 02978-A), 2021: *Babesia* species in thrombocytopenic dogs in the upper Midwest, USA

Role: PI

October 2021-September 2022

UW Companion Animal Fund: Beta1-tubulin mutations in non-Cavalier King Charles Spaniel dogs with persistent macrothrombocytopenia

Role: PI

July 2022-June 2024

Access to Veterinary Care Program Research Grant 2021, ASPCA (Grant No. 202108-28672): Fecal Microbial Transplant for Parvovirus in the Outpatient Setting (FMT-POOP): A randomized controlled trial to evaluate a practical and low-cost intervention

Role: PI

Feb 2022-Jan 2023

UW Companion Animal Fund: Flea-borne pathogens in fleas and free-roaming cats across geographic locations

Role: PI

July 2021-June 2023

NCSU Comparative Medicine Institute, Young Scholar Award, 2019: Flea-borne disease and the microbiome of fleas from free-roaming cats in North Carolina

Role: Co-PI

Spring-Summer 2019

AKC Canine Health Foundation (CHF Grant No. 2550), 2018: The role of *Bartonella* spp. exposure and cardiac genetic variation on the clinical expression of arrhythmogenic right ventricular cardiomyopathy in the Boxer dog.

Role: Co-investigator

February 2019-February 2022

Comparative Medicine and Translational Research Fellowship, NIH T-32 Award (Grant T32OD011130)

Role: trainee

August 2018 – December 2020

AKC Canine Health Foundation (Grant AKC-CHF 01231A), 2017: Prevalence of *Bartonella* spp. infection in dogs with cardiac and splenic hemangiosarcomas within and between geographic locations.

Role: statistical analysis of data

January 2017-January 2022

Awards and Honors

NCSU College of Veterinary Medicine, Department of Clinical Sciences: Graduate Student of the Year award, 2020

University of Washington Biostatistics Summer Institute scholarship and travel grant recipient: Statistics and Modeling in Infectious Diseases, 2018

ACVIM Forum 2017: Winner of ACVIM Resident Research Award

2017-2018 Travel Award for Postdocs and House Officers from the Office of Postdoctoral Affairs and the Graduate School, North Carolina State University

SUNY Chancellor's Award for Student Excellence, 2011

Western Veterinary Conference: Student scholarship recipient, 2011

NASA Astrobiology Institute Meeting: Sponsored attendee, 2005

PAC 10 All-Academic First Team (Diving): 2005



Teaching experience

Course Coordinator, PATH-BIO150 – Contemporary Topics and Careers in the Veterinary Sciences

University of Wisconsin: Fall semester 2021-present *Madison, WI*

- Guest lecturer-based course for undergraduate students interested in careers in veterinary medicine and animal health
- Revised and updated curriculum and learning objectives to focus on the breadth of career options available in veterinary medicine, create practical course assignments to develop students' networking skills, and highlight diverse veterinarians and traditionally "atypical" career trajectories

Instructor, PATH-BIO525 – Active Integrated Learning I

University of Wisconsin: Fall semester 2021-present *Madison, WI*

- Facilitator for case-based clinical problem solving course for 2nd year veterinary students (1 case)

Instructor, MEDSC-V633 – Companion Animal and Equine Medicine II

University of Wisconsin: Spring semester 2021-present *Madison, WI*

- Didactic lectures for 3rd year veterinary students in endocrinology (4 lectures)

Directed study supervisor, MEDSC-V699

University of Wisconsin: 2020-present *Madison, WI*

- Fall semester 2020: Supervised a 1 week remote/online directed study for one 4th year student: completed literature review on *Bartonella* diagnostic testing in dogs
- Fall semester 2021: Supervised 4 week remote/online directed study for one 4th year student: literature review and initial draft of *Bartonella* clinical review manuscript

Course facilitator, VMC 920 – Small Group Problem Solving in Veterinary Medicine

NCSU: Spring semester 2019, 2020 *Raleigh, NC*

- Lead weekly small group discussion in problem-based learning approach to clinical reasoning and critical thinking for first year veterinary students

Advisor, One Health Club Epidemiology Rounds

NCSU: Spring semester 2019 – Fall semester 2020 *Raleigh, NC*

- Lead monthly rounds for veterinary students on case reports and epidemiologic studies relating to One Health; advise student leadership

Veterinary student and house officer seminars

UW *Madison, WI*

- 2021 – Bartonella (1 hr, ACVIM House Officer Rounds)

NCSU

Raleigh, NC

- 2022 – Bartonella (1 hr ACVIM House Office Rounds)
- 2020 – Conn's Syndrome (1 hr, Feline club)
- 2019 – Canine and Feline Vector-Borne Diseases (1 hr, ACVECC House Officer Board Prep Rounds)
- 2019 – Epidemiology and Statistics (2 hrs, ACVIM House Officer Board Prep Rounds)
- 2019 – Vector-borne Disease in Cats (2 hr, Feline club)
- 2018 – Approach to Effusions (1 hr, SCACVIM)
- 2018 – Anemia in Cats (2 hrs, Feline club)
- 2017 – Conn's Syndrome (1 hr, Feline club)
- 2016 – Emergency Management of Feline Urethral Obstruction (2 hrs, SVECCS)
- 2016 – Feline Infectious Peritonitis (1 hr, Feline club)



- 2015 – Toxoplasmosis: A historical perspective (1 hr, Feline club)

Veterinary student teaching laboratory assistant

UW

Madison, WI

- 2021 – Health, History, and PE laboratory (four 1 hr labs)
- 2020 – Low-stress handling laboratory (two 1 hr labs)

NCSU

Raleigh, NC

- 2020 – Clinical skills laboratory (one 1 hr lab)
- 2019 – Clinical skills laboratory (one 3 hr lab)
- 2019 – Physical exam laboratory (one 3 hr lab)
- 2017 – Clinical skills laboratory (two 3 hr labs)
- 2017 – Physical exam laboratory (two 3 hr labs)
- 2016 – Physical exam laboratory (two 3 hr labs)

Teaching Assistant, Astrobiology

Stanford University: Winter quarter 2005, 2006

Stanford, CA

- Supervised and evaluated approximately 20 students each year in a guest lecturer based seminar

Mentoring experience

UW Veterinary Student and House Officer Advisor

2020-present

- Clinical advisor for residents in small animal internal medicine, rotating interns, and veterinary students
 - 2021-2022: 1 resident, 1 intern, 5 veterinary students
- Research mentor for house officers and veterinary and graduate students
 - 2021-2022: 2 residents, 7 veterinary students
 - 2020-2021: 1 veterinary student

Research Mentor Training Seminar, UW-Madison, *participant*

Spring 2021

- 5-session discussion-based course designed to improve mentoring skills

NCSU Internal Medicine resident journal club

2018-present

- Guide residents in publication selection and review, assist with leading discussion on study design, limitations, interpretation of results (approx. 5-10 times per year, as requested by residents)

NCSU CMI Summer Interdisciplinary Research Initiative, *Undergraduate mentor* 2019-present

- Mentored undergraduate student for summer research project; student presented results of summer research as a poster at three conferences as an undergraduate
- Abstract poster selected for American Society of Tropical Medicine and Hygiene Annual Meeting, 2019: “Prevalence of two bacterial pathogens in fleas and tissues from free roaming domestic cats”
- Undergraduate research grant awarded, Spring semester 2020: “Evaluation of Flea Borne Pathogens in Fleas of Free Roaming Domestic Cats”
- Currently pursuing PhD at NCSU

Royal Veterinary College and London School of Hygiene & Tropical Medicine, Summer 2019
One Health MSc Programme, *External supervisor*

- Mentored MSc student for thesis research project completed at NCSU: “Characterizing zoonotic bacteria in the microbiome of fleas collected from community cats in the United States”
- Student currently pursuing PhD at University of Wyoming

NCSU Internal Medicine Intern Mentor

2017-2018



Non-Degree and Short Courses

- AO Faculty Education Program** 2022
- Participated in two-day interactive seminar on Teaching and Learning for veterinary medicine, from AO North America
- Spotlight on Rickettsia, American Society for Rickettsiology** 2020-2021
- Attended monthly online lecture series on topics in Rickettsiology
- Health Sciences Equity and Diversity Lunch and Learn Series** 2020-2021
- Attended multidisciplinary lecture series focus on topics related to equity, diversity, and inclusion in the health sciences
- ComSciCon Triangle** 2021
- Workshop series dedicated to developing science communication skills, with the goal of producing an original work of science communication for publication
- Certificate for Diversity and Inclusion in Veterinary Medicine, Purdue University** 2021
- Year-long online certificate program for faculty and administrators in veterinary medicine, dedicated to creating inclusive work and learning environments. Includes community service participation and capstone paper.
- Introduction of the Principles and Practice of Clinical Research, NIH OCR** 2020
- Online certificate course training healthcare professionals on how to safely and effectively conduct clinical research. Topics include biostatistical and epidemiologic methods, study design, protocol preparation, patient monitoring, quality assurance, and ethical and legal issues.
 - Certificate granted July 2020
- R for Data Science workshop series, NC State University Libraries** 2019
- Semester-long series of online workshops providing a self-directed learning opportunity to develop functional skills using R to work with data; follows the free online textbook *R for Data Science* (Grolemund and Wickham)
- University of Washington Biostatistics Summer Institute** 2018, 2020
- Statistics and Modeling in Infectious Diseases, Statistics for Clinical and Epidemiological Research: Immersion courses in modern methods of statistical analysis, mathematical modeling, and clinical research
- Data Matters™: Data Science Short Course Series** 2017
- Week-long series designed to teach data analytics skills and encourage integration of data science methods into research designs. Courses included Introduction to R, Programming in R, and Visualization in R.
- AVMA Veterinary Leadership Experience** 2010
- Conference designed to strengthen leadership skills and non-technical competencies including teamwork, communication, and professionalism
- Envirovet Summer Institute** 2009
- Educational immersion in conservation medicine and environmental and public health; travel to Tanzania for hands-on experience working in a developing nation

Leadership & Service Activities

- ACVIM Education and Research Committee, *member* 2022-present
- Contributor, Obi Veterinary Education 2021-present
- Microlearning online CE course: Common canine endocrinopathies
- IDEXX Key Opinion Leader and contributing writer for The Vetiverse blog 2021-present



- Contributing writer for veterinary diagnostics blog focused on vector-borne disease and client communication
- Improve International, Small Animal Medicine Distance Learning course 2020-present
- Consultant, Canine and Feline Infectious Diseases modules
- NCSU Small Pack Leader for International Student Orientation 2019-2020
- NCSU Academy of Educators *Member* 2018-present
- Education Day planning committee member, 2018-2020
 - Education Day session chairperson, 2019 and 2020
- Ad hoc reviewer: 2018-present
- Preventative Veterinary Medicine, Journal of Wildlife Diseases, Experimental and Applied Acarology, American Journal of Tropical Medicine and Hygiene, Vector Borne and Zoonotic Diseases, Journal of Veterinary Internal Medicine, Topics in Companion Animal Medicine, Journal of the American Animal Hospital Association. See [Publons profile](#) for details.
 - ACVIM Forum abstracts: 2020-present
- SciREN Lesson Plan workshop and Networking Event, *participant* 2018
- Stanford University OVAL Volunteer 2013-present
- NC Leadership team, 2019-present
 - Alumni interviewer: NY (2013-14), NC (2015-present), WI (2020-present)
 - Admissions ambassador conducting applicant interviews and representing Stanford at local college fairs
- Campus Cycling Collective 2013-2015
- Weekly group bicycle ride leader and bike racing team member
- Ride for World Health *National Team Rider* 2012
- Cross country bicycle ride to educate communities across the nation about worldwide public health issues and raise money for beneficiary organizations
- American Veterinary Medical Association, *member* 2008-present
- Student Chapter - *President*, 2010; *Philanthropy Chairperson*: 2009-2010
- Omega Tau Sigma Professional Fraternity, Beta Chapter, *member* 2008-2012
- *Unity Chairperson* 2008-9, *member*, 2008-2012
- Cornell University Wildlife Health Center 2008-2011
- *Supervisor*, 2009-11: Trained veterinary student volunteers; managed cases under DVM supervision at hospital for comprehensive medical and surgical care of sick and injured native wildlife
- Varsity Diving Team, Stanford University 2001-2005

Technical Skills

Software experience: R, Tableau, ArcGIS, Adobe Photoshop; Limited SAS, Carto, Github

Languages: English (primary), Spanish (beginner), German (beginner)

Mental Health First Aid trained (March 2021), QPR for Suicide Prevention Gatekeeper certified (April 2019)

Professional Licenses and Memberships

Diplomate of the American College of Veterinary Internal Medicine 2018-present
WI Veterinary Medical License 2020-present



NC Faculty Veterinary Medical License	2015-2021
NY State Veterinary Medical License	2012-2015
Veterinary and Comparative Clinical Immunology Society	2021-present
American Society of Veterinary Nephrology and Urology	2021-present
American Society for Rickettsiology – member	2021-present
Wisconsin Veterinary Medical Association – member	2020-present
Graduate Women in Science – member	2019-2020
International Society for Companion Animal Infectious Diseases – member	2019-present
American Society of Microbiology – member	2018-2020
American Society of Tropical Medicine and Hygiene – member	2018-present
NCSU Comparative Medicine Institute – Associate member	2018-2020
American College of Veterinary Internal Medicine – member	2015-present
NC State Veterinary Medical Association – member	2015-2021
American Veterinary Medical Association – member	2012-present
NY State Veterinary Medical Association – member	2012-2015