

# Erin Lashnits, MS, DVM, PhD, DACVIM (SAIM)



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## Education

### **North Carolina State University**

*Raleigh, NC*

- PhD, Comparative Biomedical Sciences, 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 DACVIM specialty residents
- Instruct 4<sup>th</sup> year veterinary students on clinical rotations and preclinical veterinary students in lecture and laboratory courses
- Research focusing on epidemiology and ecology of vector-borne zoonotic diseases in a One Health context
- Honorary Fellow with the Master of Public Health Program (2022-2023)

### **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 (most recent 5 years)**

Complete list of published work: <https://www.ncbi.nlm.nih.gov/myncbi/1nMBy9DaU8PkC/bibliography/public/>

- Taber R, Pankowski A, Ludwig AL, Jensen M, Magsamen V, **Lashnits E**. Bartonellosis in Dogs and Cats, an Update. *Vet Clin North Am Small Anim Pract.* 2022 Nov;52(6):1163-1192.
- Manvell C, Berman H, Callahan B, Breitschwerdt E, Swain W, Ferris K, Maggi R, **Lashnits E**. Identification of microbial taxa present in *Ctenocephalides felis* (cat flea) reveals widespread co-infection and associations with vector phylogeny. *Parasit Vectors.* 2022 Oct 31;15(1):398.
- 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 Mar;36(2):500-507.
- 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

### WVMA CE Palooza

November 2022

*Online*

- Oral CE presentations (1 hr each): Common canine endocrinopathy cases; Canine hyperadrenocorticism – updates from the literature 2020-2022

### International Conference on Bartonella as an Emerging Pathogen

November 2022

*Lima, Peru*

- Oral research abstract: Antibodies to *Borrelia burgdorferi* and *Bartonella* species in serum and synovial fluid from people with rheumatic diseases

### Invisible International: Innovation Hackathon - One Health Medical Education: Bridging the knowledge gap between human and animal clinicians

November 2022

*Online*

- Invited lightning talk: One Health Clinical Models

### ACVIM Forum

September 2022

*Online*

- Panel presentation: Bartonellosis and Cancer

### University of Wisconsin-Madison “Badger Talks”

July 2022

*Online*

- Selected TED-style livestreamed talk on YouTube: Cats, Dogs and Cows, Oh My! Climate Change and the Impacts on Pets and Livestock

### University of Wisconsin Annual Practitioners Seminar: Canine Endocrine Disease – All Glands on Deck!

March 2022

*Madison, WI*

- Oral CE presentation (1 hr): Canine endocrine cases

### Midwest Veterinary Conference

February 2022

*Columbus, OH*

- 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

April 2021

*Online*

- 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, active

UW Companion Animal Fund: \$10936

Why do some fleas spread disease? The ecoepidemiology of bacterial pathogens carried by *Ctenocephalides felis* (cat flea)

Role: PI

July 2023-June 2025

NIH Clinical and Translational Science Award One Health Alliance: \$24921

The Flea Network: A national biorepository for fleas and host tissues to address flea-borne zoonotic disease transmission in the United States

Role: Lead PI

April 2023-March 2024

Elanco Animal Health: \$45927

Evaluation of Credelio CAT (lotilaner) to control flea populations on naturally infested cats in private residences in West Central FL, and to determine the prevalence of pathogens linked to those flea populations

Role: Investigator

May 2022-May 2023

UW Companion Animal Fund: \$4249

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, ASPCA: \$16570  
Fecal Microbial Transplant for Parvovirus in the Outpatient Setting (FMT-POOP): A randomized controlled trial to evaluate a practical and low-cost intervention (Grant No. 202108-28672)  
Role: PI Feb 2022-Jan 2024

AKC Canine Health Foundation: \$14805  
*Babesia* species in thrombocytopenic dogs in the upper Midwest, USA (CHF Grant No. 02978-A)  
Role: PI October 2021-March 2023

### Awarded, completed

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 and II**

*University of Wisconsin:* 2021-present

*Madison, WI*

- Facilitator for case-based clinical problem solving course for 2<sup>nd</sup> year veterinary students (2 cases; 1 per semester)

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

*University of Wisconsin:* Spring semester 2021-present

*Madison, WI*

- Didactic lectures for 3<sup>rd</sup> year veterinary students in endocrinology (4-5 lectures)
- Revised endocrinology curriculum to present "flipped" classroom model with pre-recorded lectures available asynchronously and in-class interactive sessions (small group problem-based case and Kahoot! Interactive presentation on small animal endocrine physiology)

#### **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 4<sup>th</sup> year student: completed literature review on *Bartonella* diagnostic testing in dogs
- Fall semester 2021: Supervised 4 week remote/online directed study for one 4<sup>th</sup> 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*

- 2022 – Hyperadrenocorticism (1 hr, ACVIM House Officer Rounds)
- 2022 – DIC (1 hr, ACVIM House Officer Rounds)
- 2021 – Bartonellosis (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*

- 2022 - Health, History, and PE laboratory (6 sessions; 8 hrs); Introduction to the Veterinary Medical Teaching Hospital (facilitator, 1 session)
- 2021 – Health, History, and PE laboratory (four 1 hr labs) ; Introduction to the Veterinary Medical Teaching Hospital (facilitator, 3 sessions)
- 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 School of Medicine and Public Health, MPH student advisor

2022-2023

- Oversee research project for MPH student preceptorship (Haley Uustal, MPH class of 2023)

UW Veterinary Student and House Officer Advisor

2020-present

- Clinical advisor for residents in small animal internal medicine, rotating interns, and veterinary students
  - 2022-2023: 1 resident, 1 intern, 5 veterinary students
  - 2021-2022: 1 resident, 1 intern, 5 veterinary students
- Research mentor for house officers and veterinary students
  - 2022-2023: 1 resident, 9 veterinary students, 1 undergraduate student
  - 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, and Community Activities

NIH Early Career Reviewer Program, <i>accepted as reviewer</i>	2023
UW-Madison School of Veterinary Medicine Curriculum Revision Committee	
• NIMBLE Curriculum Revision group, <i>member</i>	2023-present
• Curriculum Design Working Group, <i>member</i>	2022
Invisible International, <i>CME faculty</i>	2022-present
ACVIM Education and Research Committee, <i>member</i>	2022-present
Preschool of the Arts, DEI Committee, <i>member</i>	2021-present
Obi Veterinary Education, <i>contributor</i>	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 <i>Member</i>	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 <a href="#">Publons profile</a> for details.	
• ACVIM Forum abstracts	2020-present
• UW Companion Animal Fund Grant:	2022
• AKC Canine Health Foundation: Acorn Grants	2022
SciREN Lesson Plan workshop and Networking Event, <i>participant</i>	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 <i>National Team Rider</i>	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, <i>member</i>	2008-present
• Student Chapter - <i>President</i> , 2010; <i>Philanthropy Chairperson</i> : 2009-2010	
Omega Tau Sigma Professional Fraternity, Beta Chapter, <i>member</i>	2008-2012
• <i>Unity Chairperson</i> 2008-9, <i>member</i> , 2008-2012	
Cornell University Wildlife Health Center	2008-2011
• <i>Supervisor</i> , 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)  
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	2021-present
Wisconsin Veterinary Medical Association	2020-present
Graduate Women in Science	2019-2020
International Society for Companion Animal Infectious Diseases	2019-present
American Society of Microbiology	2018-2020
American Society of Tropical Medicine and Hygiene	2018-present
NCSU Comparative Medicine Institute – Associate member	2018-2020
American College of Veterinary Internal Medicine	2015-present
NC State Veterinary Medical Association	2015-2021
American Veterinary Medical Association	2012-present
NY State Veterinary Medical Association	2012-2015