

*Curriculum Vitae*  
**Carolyn L. Hodo**

3 January 2018

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## Personal Information

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## Education/Board Certification

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- 2017      **Ph.D.**, Texas A&M University, College Station, TX  
            Veterinary Pathobiology
- 2014      **Diplomate of the American College of Veterinary Pathologists**  
            Anatomic Pathology Residency 2011-2014, Texas A&M University,  
            College Station, TX
- 2011      **Doctor of Veterinary Medicine**, University of Georgia CVM, Athens, GA
- 2007      **Bachelor of Science**, Berry College, Mount Berry, GA  
            Major: Animal Science; Minor: Chemistry  
            Summa cum laude

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## Professional Experience

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- 2017-present    **Postdoctoral Research Associate**, Texas A&M University  
                    Department of Veterinary Integrative Biosciences  
                    Supervisor: Sarah Hamer
- 2014-2017      **NIH T32 Graduate Fellow**, Texas A&M University  
                    Department of Veterinary Pathobiology  
                    Dissertation: Ecology of *Trypanosoma cruzi* and its mammalian reservoirs  
                    in Texas, USA  
                    Graduate Committee: Sarah Hamer, C. Jane Welsh, Gabriel Hamer, and  
                    Ann Kier
- 2011-2014      **Anatomic Pathology Resident**, Texas A&M University
- 2010-2011      **Veterinary Extern**  
                    **Southeastern Cooperative Wildlife Disease Study**, Athens, GA  
                    Assisted with mist netting and banding of birds for disease surveillance  
                    Performed diagnostic necropsies on submitted wildlife  
                    **University of Colorado Pathology Service**, Fort Collins, CO  
                    **Washington State University Pathology Service**, Pullman, WA  
                    **Las Cruces Biological Station**, Costa Rica  
                    Mentored undergraduates in field research involving wildlife trapping and  
                    sampling of dogs in indigenous villages for zoonotic diseases
- 2008-2010      **Veterinary Student Representative**, Fort Dodge Animal Health  
                    Paid competitive position - organized quarterly educational lectures and  
                    oversaw distribution of products to veterinary students

## **Research Support/Grants Awarded**

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### **Bats: an under-recognized reservoir of *Trypanosoma cruzi* in the United States?**

Texas A&M University College of Veterinary Medicine.

Graduate Trainee Research Grant, 2015

Amount: \$5000

### **Consequences of polyparasitism on Chagas disease emergence: investigating immune-mediated parasite interactions**

Texas A&M University College of Veterinary Medicine.

Post-doctoral Trainee Research Grant, 2013

Amount: \$10000

## **Fellowships and Awards**

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### **Fellowships**

NIH T32 Ruth L. Kirchstein NRSA Institutional Research Training Grant

Texas A&M University. Active dates: August 2014-August 2017

### **Awards**

- 2017 American Committee of Medical Entomology (ACME) Young Investigator Award  
Graduate Student Travel Award, American Society of Tropical Medicine and Hygiene (ASTMH)
- 2017 Wildlife Disease Association Student Scholarship
- 2017 Outstanding PhD Student Award, TAMU College of Veterinary Medicine
- 2017 Graduate Student Advanced Developmental Training Award, TAMU College of Veterinary Medicine
- 2017 High Impact Achievement Award – First Author Publication, TAMU College of Veterinary Medicine
- 2016 One Health Travel Award, TAMU College of Veterinary Medicine
- 2015 Graduate Student Advanced Developmental Training Award, TAMU College of Veterinary Medicine
- 2013 American College of Veterinary Pathologists Student Travel Award
- 2013 Graduate Student Advanced Developmental Training Award, TAMU College of Veterinary Medicine
- 2010 Research Travel Grant, University of Georgia Latin American and Caribbean Studies Institute
- 2010 American College of Veterinary Pathology Externship Scholarship
- 2010 International Externship Stipend, Student Association of Global Awareness, University of Georgia

## **Publications**

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### **Peer-reviewed Publications (6)**

- Hodo CL**, Hamer SA. 2017. Toward an ecological framework for assessing reservoirs of vector-borne pathogens: wildlife reservoirs of *Trypanosoma cruzi* across the southern United States. *ILAR J.* 1-14. DOI: <https://doi.org/10.1093/ilar/ilx020>
- Hodo, CL**, NR Bertolini, JC Bernal, JL VandeBerg, SA Hamer. 2017. Apparent lack of *Trypanosoma cruzi* infection in urban roof rats (*Rattus rattus*) at a Texas non-human primate facility with naturally infected primates. *J Am Assoc Lab Anim Sci.* 56:57-62.
- Hodo, CL**, CC Goodwin, BC Mayes, JA Mariscal, KA Waldrup, SA Hamer. 2016. Trypanosome species, including *Trypanosoma cruzi*, in sylvatic and peridomestic bats of Texas, USA. *Acta Tropica.* 164:259-266
- Hodo, CL**, DB Whitley, SA Hamer, WV Corapi, K Snowden, JJ Heatley, A Rodrigues Hoffmann. 2015. Histopathologic and Molecular Characterization of *Sarcocystis calchasi* Encephalitis in White-winged Doves (*Zenaida asiatica*) and Eurasian Collared Doves (*Streptopelia decaocto*), East-central Texas, 2010–13. *J Wildl Dis.* 52:395-9.
- Bryan, LK, SA Hamer, S Shaw, R Curtis-Robles, LD Auckland, **CL Hodo**, K Chaffin, RR Rech. 2016. Chagas disease in a Texan horse with neurologic deficits. *Vet Parasitol.* 216:13-17.
- Taylor, A, BM Eichelberger, **CL Hodo**, J Cooper, and BF Porter. 2015. Imaging Diagnosis: Spinal cord histiocytic sarcoma in a dog. *Vet Radiol Ultrasound.* 56:E17-20.

### **Book Chapters (1)**

- Hamer, SH, **CL Hodo**. Chagas Disease: wildlife infection with *Trypanosoma cruzi* in a One Health context. In: RE Miller, ME Fowler, eds. *Fowler's Zoo and Wild Animal Medicine Current Therapy.* 9<sup>th</sup> ed. **In press.**

### **Manuscripts Submitted and in Preparation (4)**

- Hodo, CL**, GK Wilkerson, SB Gray, EC Birkner, SA Hamer. *Trypanosoma cruzi* transmission among captive nonhuman primates, wildlife, and vectors. *In review.*
- Hodo, CL**, J Mansell, M Mauldin, JA Ritter, SA Hamer. Pathological and molecular characterization of a novel poxvirus in wild mice in Texas. *In review.*
- Hodo, CL**, JY Rodriguez, R Curtis-Robles, IB Zecca, K Snowden, KJ Cummings, SA Hamer. Comparative prevalence of *Trypanosoma cruzi*, *Dirofilaria immitis*, *Ehrlichia* spp, *Anaplasma* spp, and *Borrelia burgdorferi* in Texas shelter dogs. *In prep.*
- Hodo, CL**, EE Edwards, RM Bañuelos, EJ Wozniak, R Curtis-Robles, SA Hamer. Strain type associations and pathology of *Trypanosoma cruzi* infection in coyotes (*Canis latrans*) and raccoons (*Procyon lotor*) of Texas, USA. *In prep.*

### **Outreach Publications (5)**

- Hodo, CL**, R Curtis-Robles, A Lopker, SA Hamer. 2016. Canine Chagas disease - a hidden threat? A deadly cardiac disease spread by kissing bugs across the southern half of the United States. *Japanese Chin Club of America biannual magazine.* Spring issue.
- Hodo, CL.** 2011. White Nose Syndrome Update. *SCWDS Briefs*, Newsletter for the Southeastern Cooperative Wildlife Disease Study. 27(1):1-2.
- Hodo, CL.** 2011. Frogs and Salmonella. *SCWDS Briefs*, Newsletter for the Southeastern Cooperative Wildlife Disease Study. 27(1):3-4.

**Hodo, CL.** 2010. *Brucella suis* in North America. *SCWDS Briefs*, Newsletter for the Southeastern Cooperative Wildlife Disease Study. 26(1):8-9.

**Hodo, CL.** 2010. Pneumonia Kills Bighorn Sheep. *SCWDS Briefs*, Newsletter for the Southeastern Cooperative Wildlife Disease Study. 26(1):5-6.

### **Peer reviewer**

Journal of the American Veterinary Medical Association: Pathology in Practice (6), Clinical Reports (1)

Journal of Parasitology (1)

Parasites & Vectors (1)

### **Presentations and Lectures**

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#### **Invited presentations at scientific conferences (2)**

American Society of Tropical Medicine and Hygiene 66<sup>th</sup> Annual Meeting, Baltimore, MD. (Nov 2017). Participant in: American Committee of Medical Entomology (ACME) Symposium II: New and Young Investigators in Medical Entomology. *Trypanosoma cruzi transmission ecology at non-human primate facilities in Texas*. **Hodo, CL**, SA Hamer. Symposium presenter.

South Texas Tropical Medicine & Vector Borne Disease Conference, South Padre Island, TX. Feb 2016. *Comparative Pathology of Chagas Disease*. **Hodo, CL**, SA Hamer. Oral presentation.

#### **Contributed talks and poster presentations at scientific conferences (13)**

Wildlife Disease Association International Conference, San Cristobal de las Casas, Mexico. (July 2017). *Trypanosoma cruzi* infection prevalence and pathology among coyotes (*Canis latrans*) and raccoons (*Procyon lotor*) of Texas, USA. **Hodo, CL**, EJ Wozniak, EE Edwards, RM Bañuelos, EC Birkner, SA Hamer. Oral presentation.

Gordon Research Conference – Tropical Infectious Diseases, Galveston, TX. Mar 2017. *Ecology of Trypanosoma cruzi at facilities housing naturally infected non-human primates in Texas, USA*. **Hodo, CL**, EC Birkner, SB Gray, GK Wilkerson, R Curtis-Robles, G Fleurie, M Cottingham, SA Hamer. Poster.

American College of Veterinary Pathologists Annual Meeting, New Orleans, LA. Dec 2016. *Proliferative lesions associated with poxvirus in wild rodents in Texas*. **Hodo, CL**, JL Mansell, JE Light, SA Hamer. Poster.

American College of Veterinary Pathologists Annual Meeting, New Orleans, LA. Dec 2016. *Pathologic lesions and prevalence of Trypanosoma cruzi in wild coyotes (Canis latrans) of Texas*. **Hodo, CL**, EJ Wozniak, EE Edwards, RM Bañuelos, EC Birkner, SA Hamer. Oral presentation.

James Steele Conference on Diseases in Nature Transmissible to Man. San Antonio, TX. May 2016. *Infection of sylvatic and peridomestic bats with trypanosomes, including Trypanosoma cruzi, in bats in Texas, USA*. **Hodo, CL**, B Mayes, K Waldrup, SA Hamer. Poster.

Texas A&M College of Veterinary Medicine Spring Research Symposium. January 2016. *Infection of sylvatic and peridomestic bats with trypanosomes, including Trypanosoma cruzi, in bats in Texas, USA*. **Hodo, CL**, B Mayes, K Waldrup, SA Hamer. Poster.

- James Steele Conference on Diseases in Nature Transmissible to Man, Houston, TX. May 2015. *The role of bats in the eco-epidemiology of Chagas disease in the United States.* **Hodo, CL**, BC Mayes, SA Hamer. Poster.
- American College of Veterinary Pathologists Annual Meeting, Montreal, QC, Canada. Nov 2013. *Fatal Sarcocystis Encephalitis Infections in Doves in Texas.* **Hodo, CL**, DB Whitley, SA Hamer, BF Porter, WV Corapi, K Snowden, JJ Heatley, A Rodrigues Hoffmann. Oral presentation and poster.
- C.L. Davis 23<sup>rd</sup> Annual Southcentral Division Meeting, Galveston, TX. Oct 2013. *Histiocytic sarcoma in a red kangaroo (Macropus rufus).* **Hodo, CL**, J Hilligas, GJ Levine, SM Hoppes, AM Arenas-Gamboa. Oral presentation.
- James Steele Conference on Diseases in Nature Transmissible to Man, Houston, TX. June 2013. *Complementary Approaches to the Characterization of Ecological Drivers of Chagas Disease in the U.S.* Curtis, R, **CL Hodo**, GL Hamer, KF Snowden, EJ Wozniak, SA Hamer. Poster. (Presenter)
- American College of Veterinary Pathologists Annual Meeting, Seattle, WA. Dec 2012. *Hypertrophic Osteopathy Associated with Chronic Bronchopneumonia in Three White-Tailed Deer (Odocoileus virginianus).* **Hodo, CL**, BC Lewis. Oral presentation.
- American College of Veterinary Pathologists Annual Meeting, Seattle, WA. Dec 2012. *Multisystemic Phaeohiphomycosis in Two Loggerhead Sea Turtles (Caretta caretta) Associated with Ochroconis humicola.* **Hodo, CL**, Flanagan JP, Oliveira FN. Poster
- C.L. Davis 22<sup>nd</sup> Annual Southcentral Division Meeting, Galveston, TX Oct 2012. *Phaeohiphomycosis in Loggerhead Sea Turtles.* **Hodo, CL**, JP Flanagan, FN Oliveira. Oral presentation.

### Outreach Presentations

- Australian Shepherd Club of America National Specialty. Bryan, TX. Nov 2014. *Canine Chagas Disease in Texas.* **Hodo, CL**, R Curtis-Robles, SA Hamer.
- M.D. Anderson Cancer Center Michale Keeling Center for Comparative Medicine and Research. Bastrop, TX. June 2016. *Chagas disease ecology at the intersection of human, animal, and vector populations.* **Hodo, CL**, SA Hamer.

## Teaching Experience

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### Laboratories

- 2011-2014 General Pathology and Systemic Pathology Macroscopic Lab, 2 labs per semester  
Collected, organized, and presented relevant tissues in discussion and lecture

### Veterinary Senior Rotations

- 2011-present Diagnostic Pathology clinical rotation  
Lead case-based discussions before and after necropsy; demonstrate and supervise necropsy techniques, tissue collection, and decision making for diagnostic testing; critically correct written necropsy reports

### Guest lectures in didactic courses

- 2017 Epidemiological Methods I – Epidemiologic methods used in the study of *T. cruzi*  
2017 Field and Laboratory Techniques in Vector-Borne Diseases – Scientific Writing

## **Invited talks to student organizations**

- Pathology Club and Wildlife Disease Association student chapters joint meeting. TAMU. Oct 2016. *Wildlife Pathology*. Lecture.
- Student One Health Association. TAMU. Oct 2015. *Careers in One Health*. Panel discussion.
- Zoo, Exotics, Wildlife Medicine Student Organization. TAMU. Nov 2014. *Exotic Animal Necropsy*. Lecture and avian necropsy wetlab.
- Zoo, Exotics, Wildlife Medicine Student Organization. TAMU. Oct 2013. *Exotic Animal Necropsy*. Lecture.

## **Mentoring**

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### **Veterinary students**

Veterinary Medicine Summer Research Training Program (VMSRTP) - Directly supervised and trained in daily research activities, including project development, literature review, proposal writing, field and laboratory techniques.

- Chloe Goodwin. 2015. Project: Trypanosome detection in bats of Texas.
- Nicole Bertolini 2015. Project: Surveillance for *Trypanosoma cruzi* in rats and kissing bugs at a non-human primate facility.
- Elise Birkner. 2016. Project: Characterizing *T. cruzi* transmission between wildlife, vectors, and primates at a non-human primate facility.
- Rosa Bañuelos. 2016. Project: Prevalence and pathology of *T. cruzi* infection in raccoons and coyotes. Field and laboratory techniques. 2016.

### **Undergraduate students**

Supervised and trained in laboratory techniques

- Faith Weeks. 2014-2015. *T. cruzi* surveillance in shelter dogs; Trypanosomes in bats.
- Amani Bourji. 2015-2016. Trypanosomes in bats; *T. cruzi* in rats. Laboratory techniques.

## **Organizations and Professional Memberships**

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- 2017- American Association of Wildlife Veterinarians, member
- 2014- Diplomate of the American College of Veterinary Pathologists (ACVP)
- 2012- Wildlife Disease Association, member
- 2012- Student Chapter of the Wildlife Disease Association, Texas A&M University, Secretary 2012-13, President 2013-14, Secretary 2015-16
- 2012- Post-doctoral Association, Texas A&M University CVMBS, member
- 2012- Graduate Student Association, Texas A&M University CVMBS, member
- 2011- Texas Veterinary Medical License
- 2011- American Veterinary Medical Association, member
- 2011- Phi Zeta Veterinary Honor Society, inductee