

# Lani R. Bower

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## **CERTIFICATION, LICENSURE and EDUCATION**

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<b>Wyoming State Veterinary Medical License (#2039)</b>	May 2024 - present
<b>Washington State Veterinary Medical License (#VT60912062)</b>	Oct 2018 – Oct 2024

<b>ACVP Phase II Board Certification Examination</b>	Miami, FL August 15, 2017
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<b>ACVP Phase I Board Certification Examination</b>	Knoxville, TN March 10, 2016
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<b>Colorado State University</b> College of Veterinary Medicine and Biomedical Sciences Doctor of Veterinary Medicine	Fort Collins, CO Aug 2010 - May 2014
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<b>Colorado State University</b> Masters of Agriculture, Integrated Resource Management Program	Fort Collins, CO Aug 2007 - Dec 2009
<ul style="list-style-type: none"><li>Final project consisted of completing a business plan that was implemented by an eastern Colorado ranch</li><li>Professional paper: grant proposal for Rocky Mountain Raptor Program to the El Pomar foundation</li></ul>	

<b>Northeastern University</b> Bachelor of Science in Biology, Wildlife Concentration	Boston, MA Sept 1999 - Dec 2003
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<b>James Cook University</b> Study Abroad Experience- Biology concentration	Townsville, Australia Jan - June 2003
<ul style="list-style-type: none"><li>Participated in vertebrate survey of Moorinya National Park, consensus used for Queensland annual report of vertebrate populations and habitats</li></ul>	

## **PROFESSIONAL EXPERIENCE**

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<b>Diagnostic Pathologist and Clinical Assistant Professor</b> <i>Wyoming State Veterinary Diagnostic Laboratory, University of Wyoming</i>	July 31, 2023 – present
<ul style="list-style-type: none"><li>Board-certified veterinary anatomic pathologist service duties include diagnostic veterinary pathologist (80%), teaching (12%), research and creative activity (5%), and departmental service/advising (3%) duties.</li><li>Perform and coordinate diagnostic surgical biopsies and necropsy services including domestic small and large animals (including production animals), zoo/wildlife/exotic/non-traditional species, and less frequently, laboratory animals</li><li>Interim serology section supervisor, July 2023 – June 2024</li><li>Histopathology section supervisor, June 2024 – present</li><li>Teach one 3 credit course, PATB4170/5170 – Diseases of Wildlife, one time per year and provide guest lectures in invited courses</li><li>Floor sponsor Veterinary Medicine and One Health Living Learning Community/First Year Interest Group</li><li>Participate in hiring committees as needed (participated in 6 faculty and technician committees)</li><li>Student mentor – Pre-veterinary mentoring program (7 students)</li><li>Graduate (masters) student committee member (2 students)</li></ul>	

- Coordinate histology section and necropsy section student/technician monthly rounds
- Coordinate Joint Pathology Center Wednesday Slide Conference submissions

### **Diagnostic Pathologist**

*IDEXX- Virtual, WA, North America*

May 3, 2021- Jun 16, 2023

- Performed diagnostic surgical biopsies and necropsy services (limited formalin fixed specimen); 55 case equivalencies daily with samples from domestic small animals, large animals, zoo/wildlife/exotics and less frequently, laboratory animals
- Served as pathologist on duty; responsibilities included answering all client and customer service inquiries regarding appropriate sample submission, test result interpretation, further diagnostic recommendations and consultation regarding other pathologist's reports
- Member of the general consultation team, providing colleagues with second opinions
- Addressed and consulted with clients regarding general and case specific questions and concerns

*Zoetis Reference Laboratories- Seattle (Phoenix Laboratories)*

Oct 28, 2018 – Mar 6, 2021

- Performed diagnostic surgical biopsies and necropsy service; up to 50 case equivalencies daily with samples from domestic small animals, large animals, zoo/wildlife/exotics and less frequently laboratory animals
- Performed legal/forensic necropsies, collaborating with local law enforcement and animal control agencies
- Addressed and consulted with client regarding general and case specific questions and concerns

### **Interim Diagnostic Pathologist**

*Wyoming State Veterinary Diagnostic Laboratory, University of Wyoming*

Jan 12 - Feb 9, 2018

- Performed 3 weeks of diagnostic surgical pathology and necropsy service
- Oversaw complex sample intake and determined processing and diagnostic testing needed
- Supervised and directed undergraduate student workers trimming and assisting with necropsies
- Addressed and consulted all client questions and concerns during service time
- Worked collaboratively on cases with all department faculty and staff, including the Wyoming Game and Fish Department
- Presented cases to laboratory wide case rounds and discussed diagnostics performed

### **Anatomic Pathology Residency**

*College of Veterinary Medicine, University of Tennessee*

July 2014 - June 2017

- Weeks of Biopsy Service: 27 total
- Weeks of Necropsy Service: 28 total
- Resident liaison- represent fellow residents at monthly section meeting and provide mentorship
- Primary pathologist on select surgical pathology and necropsy cases during last 6 months of residency
- Residency Project
  - Survey of raptors presenting to the Avian, Wildlife and Exotics Service focusing on gross and histopathology findings and the prevalence of Sarcocystis sp with polymerase chain reaction
- Teaching Responsibilities
  - 4<sup>th</sup> year veterinary students on necropsy and surgical pathology services
  - 1<sup>st</sup>-3<sup>rd</sup> year veterinary students in laboratory settings
  - Gross and histopathology rounds for residents and faculty

### **Anatomic Pathology Externship**

Apr 4-15, 2016

*Wyoming State Veterinary Diagnostic Laboratory, University of Wyoming*

- Necropsy Service
  - Performed/assisted with diagnostic necropsies including ungulates submitted through the Wyoming Game and Fish

- Reviewed select case histology
- Assisted with field necropsies of two cows from a Brucella seropositive herd in the Greater Yellowstone Basin
- Reviewed surgical pathology cases with pathologist
- Prepared and delivered one hour lecture to fourth year pre-veterinary students on the pathology of aging
- Attended laboratory wide case rounds

### **Anatomic Pathology Externship**

Jan 27 - Feb 7, 2014

*College of Veterinary Medicine, University of Tennessee*

- Participated in university necropsy rotation, complete necropsies and prepared reports
- Participated in daily surgical pathology readings with resident and pathologist
- Attended resident rounds and seminars

### **Wildlife Immobilization Workshop**

Sept 23, 2012

*Wildlife Disease Association in Collaboration with Colorado Parks and Wildlife*

- Attended lectures about immobilization concerns, regulations, and indications
- Assisted with elk immobilization and data gathering for anesthetic protocol study

### **Wildlife Disease Investigation and Diagnostics Workshop**

Apr 26-30, 2011

*Wildlife Disease Association, Colorado State University*

- Lecture series
- Case based investigations of bacterial, viral, and parasitic agents

## **TEACHING**

*Colorado State University*

ANEQ551 Field Necropsy Laboratory; **co-instructor**

Spring 2008

*Northeastern University*

Ornithology Laboratory, BIO4459; **laboratory and field assistant**

Spring 2001 and 2002

*University of Tennessee*

General pathology for residents, **lecturer** (1 hr/lecture):

Cell as a unit and cell responses and inflammation

Summer 2015 and 2016

Neoplasia

Fall 2015

Gross rounds for residents, **lecturer** (1 hr/lecture):

Accumulative random difficult cases

Spring 2017

Musculoskeletal pathology

Summer 2016

Reproductive pathology in small animals

Spring 2016

Reproductive pathology in large animals

Winter 2016

Equine lesions

Fall 2015

Pulmonary pathology in large animals

Spring 2015

Nonhuman primate pathology

Fall 2014

Histology rounds for residents, **lecturer** (1 hr/lecture):

Interesting AFIP infectious cases

Fall 2016

Reproductive neoplasia and inflammation

Summer 2015

Interesting cases from surgical pathology

Fall 2014

Histology rounds for UTCVM Pathology Club: Classic biopsy lesions; **lecturer** (1 hr session)

Fall 2016

UT Forestry, Wildlife and Fisheries, WFS530 (Wildlife diseases):

Wildlife necropsies; **co-instructor**

Fall 2016

UTCVM General Pathology (VM-871 – fall second year) course; **assistant**:

Anomalies of growth (8 hours)	Fall 2015 and 2016
Acute inflammation laboratory (4 hours)	Fall 2014
Minerals and pigments laboratory (4 hours)	Fall 2014
UTCVM Large animal symposium: Porcine field necropsies; <b>co-instructor</b>	Fall 2016
UTCVM Small Animal Orthopedics (VM-843 – spring third year) course; <b>assistant:</b>	
Orthopedic pathology laboratory (4 hours)	Spring 2015
UTCVM Undergraduate Pre-Veterinary Necropsy Laboratory; <b>co-instructor</b>	Spring 2017
UTCVM USDA Condemned carcasses: Slaughter house lesions laboratory; <b>assistant</b>	Spring 2015 and 2016
UTCVM Wildlife necropsy techniques for Wildlife Disease Association and Pathology club students	
<b>Co-instructor</b>	Spring 2017
<b>Co-instructor</b>	Spring 2016
<b>Assisted</b> in laboratory	Spring 2015

### *University of Wyoming*

Diseases of Production Animals, PATB4110/5110	
Disease of Backyard Birds (50 minute lecture); <b>guest lecturer</b>	Fall 2023, 2024
Diseases of Wildlife, PATB4170/5170: 3 credit hour course (~15 students)	
Upper level undergraduate/graduate course; <b>course director/instructor</b>	Fall 2024
Mammalian Pathology, PATB4130/5110	
Pathology of Aging (50 minute lecture); <b>guest lecturer</b>	Spring 2018
Wildlife Ecology and Management Necropsy Laboratory, ZOO4300/5300	
<b>Co-instructor</b> , 2 sessions/semester	Fall 2023, 2024

## **PUBLICATIONS**

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- Baker, E., L. R. Bower, R. Gerhold, and D. Miller. Prevalence and Pathology Associated with Sarcocystis spp. in Raptors in Southeast Tennessee. J Wildlife Disease. Manuscript submitted for publication. 2025
- Bower, L.R., J.C. Larson et. al. Feline primary hyperaldosteronism: Anatomic pathology perspective. DVM 360, Winter 2017/2018
- Bower, L.R., J.C. Larson et. al. Insulinoma in a senior pitbull: Anatomic pathology perspective. DVM 360, April 8, 2016
- Jones, G.S. and L.R. Bower, 2001. "Mammals IV: Rodentia (Aplodontidae, Sciuridae, Castoridae, Geomyidae, Heteromyidae, Dipodidae)" Northeastern University Vertebrate Collection, Special Publication #14, Center for Vertebrate Studies

## **ORAL AND POSTER PRESENTATIONS**

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Poster: Absence of splenomegaly and external hemorrhage in a Wyoming bovine anthrax outbreak. J.P. Kurz, **L.R. Bower**, M.J. Forzan, M.E. Srednik, H.J. Killion, A.S. Terry, J. Reese, A. Brower, and J.H. Fox. Annual Meeting of American College of Veterinary Pathology, Seattle, WA. November 2024.

West Nile Virus: 2023 Impacts and Beyond and WSVL *Brucella abortus* testing updates. Wyoming Veterinary Medical Association Winter Meeting. Casper, WY. December 2023.

Case Medley. Pre-veterinary club guest speaker. University of Wyoming. Laramie, WY. November 2023.

*Batrachochytrium salamandrivorans*: University of Tennessee's Center for Wildlife Health challenge experiment. Southeastern Veterinary Pathology Conference. Tifton, GA. May 2017.

Feline Functional Adrenal Tumors. Tumor boards at the University of Tennessee, College of Veterinary Medicine. February, 2017.

Poster: Chemodectoma in a Meerkat (*Suricata suricatta*). C.L. Peck, **L.R. Bower**, and M.M. Sula. Annual Meeting of American College of Veterinary Pathology, New Orleans, LA. November 2016.

Sarcina associated abomasal rupture in a Holstein calf: Pathology slide seminar. American Association of Veterinary Laboratory Diagnosticians Annual Meeting. October 2016.

Udder mania. Faculty Rounds at the University of Tennessee, College of Veterinary Medicine. August 2016.

Multicentric lymphoma with pulmonary bone marrow emboli in an African gray parrot. Midwest Association of Veterinary Pathology conference. Fall Creek Falls, TN. August 2016.

Canine apocrine gland anal sac adenocarcinoma. Tumor boards at the University of Tennessee, College of Veterinary Medicine. July 2016.

Pathology and ageing. PATB4130/5130. Department of Veterinary Science, University of Wyoming. April 2016.

Canine oral melanoma. Tumor boards at the University of Tennessee, College of Veterinary Medicine. March 2016.

Fallen birds of prey. Faculty Rounds at the University of Tennessee, College of Veterinary Medicine. November 2015.

Testicular teratoma in a Llama. Midwest Association of Veterinary Pathology conference. Lexington, KY. August 2015.

Sarcocystis encephalitis in a Golden Eagle. Southeastern Veterinary Pathology Conference. Tifton, GA. May 2015.

Plasma cell tumors. Tumor boards at the University of Tennessee, College of Veterinary Medicine. February 2015.

### **VETERINARY RELATED EXPERIENCE**

**Paws of the Rockies Animal Hospital**, Fort Collins, CO F/T Aug 2008 - Aug 2010, P/T Aug 10 - Jan 2012

**Cambridge Animal Hospital**, Longmont, CO P/T Jan 2012 - May 2012

**Middle Quarter Animal Hospital**, Woodbury, CT F/T Aug 2004 - July 2007

**VCA Rotherwood Animal Hospital**, Newton, MA P/T Volunteer Sept 2003 - June 2004

*Veterinary Technician, Receptionist*

- Assisted with small animal husbandry, anesthesia and surgery, laboratory sample collection and urinalysis, radiography, and filling prescriptions
- Cared for hospitalized animals, prepared surgical instruments, maintained hospital in orderly fashion
- Maintained client communications by reporting laboratory findings and delivering client concerns to doctors, scheduling, appointments, and performing daily transactions
- Trained new employees, developed daily duty checklist, initiated and ran Morris Animal Foundation patient memorial program

**Northeastern University, Center for Vertebrate Studies**, Boston, MA P/T July - Dec 2001, 2002 & 2003

*Assistant Curator, Work-study* F/T Jan - June 2001, 2002

- Performed necropsies, prepared skeletal, skinned, liquid prepared, and associated tissue specimens; organized museum for scientific research, organized database of museum holdings

- Collected and organized data from the field and laboratory pertaining to animals prepared for museum, aided with graduate and doctorate research projects
- Assisted with processing of marine mammals in collaboration with the MA Division of Fish and Wildlife
- Prepared and guided wet labs for advanced biology electives, ie. Mammalogy and Wildlife Biology
- Directed and trained work-study students to appropriate tasks concerning the lab and museum
- Conducted guided tours for museum guests, and local primary/secondary science classes

## **VOLUNTEER EXPERIENCE**

### **Rocky Mountain Raptor Program, Fort Collins CO**

*Rehabilitation Intern*

F/T May - Aug 2011; July - Aug 2012; P/T May - Aug 2013

*Medical and Husbandry Provider, Educational bird handler*

P/T June 2008 - May 2015

- Rescued and assisted with triage of injured raptors, restrained birds for treatment and transport
- Administered SQ/IM injections, applied bandages, cleaned wounds, performed physical exams
- Performed necropsies and collected specific tissue samples for research studies, recorded findings
- Handled Great Horned Owls for physical therapy/acupuncture/laser research project Summer 2011
- Assisted with public outreach and education through community exhibits and programs, conducted guided tours through the private facility, taught future generations through daily activities
- Coordinated volunteers at once weekly education and rehabilitation treatment shifts
- Supervised and trained volunteers with medical, husbandry, and handling skills
- Organized and filed past medical records, maintained facility cleanliness

### **Phola African Veterinary Experience, Alldays, South Africa**

June 2012

*Veterinary Assistant, Ranch worker*

- Assisted with wildlife, food, equine and small animal veterinary services including surgery, anesthesia, field calls, calculation of distant chemical immobilization doses, and transportation of wild game
- Performed necropsies and gathered tissues of interest from cattle in outbreak investigation
- Vaccinated, ear tagged, micro-chipped, pregnancy checked cape buffalo herd; collected samples for testing herd for Tuberculosis, Foot and Mouth Disease, Theileria, and Brucellosis
- Performed daily ranch duties: fed Roan antelope, warthogs, and jackal, tracked resident rhinos, cheetahs, and hyenas, built fences, painted offices, maintained camp and prepared meals

## **PROFESSIONAL AND OTHER AFFILIATIONS**

C.L Davis and S.W. Thompson Foundation	Dec 2019 - present
International Society of Veterinary Dermatopathology	Sept 2019 - present
American Veterinary Medical Association	Oct 2018 - present
American College of Veterinary Pathologists	Dec 2017 - present
American Association of Avian Pathologists	Nov 2016 - present
World Veterinary Poultry Association	Nov 2016 – Dec 2022
American Association of Veterinary Laboratory Diagnosticians	July 2016 - present
Wildlife Disease Association	Mar 2015 - present
CSU CVMBS Organizations	
• Spectrum, <i>Vice-President and Co-founder</i>	Mar 2013 - May 2014
• American College of Veterinary Pathologists, Student chapter <i>member</i>	Aug 2011 - May 2014
• Student Chapter American Veterinary Medicine Association, <i>member</i>	Sept 2010 - May 2014
• Zoological Medicine Society, <i>Vice-president</i>	VP- Jun 2012- May 2013, Member 2010 - May 2014
• Wildlife Disease Association, Student Chapter, <i>Member</i>	Aug 2010 - May 2014
• Laboratory Animal Research Club, <i>Member</i>	Aug 2010 - May 2012
• Student Veterinary Emergency and Critical Care Society, <i>Member</i>	Jan 2011 - May 2012

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- Behavior Club, *Member* Aug 2010 - May 2012
  - American College of Veterinary Internal Medicine, *Member* Aug 2010 - May 2011
- CSU Intramural Volleyball, Recreational League Feb 2011 - Jun 2013

### **AWARDS AND HONORS**

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Mentor of the Year Nov 2016  
Student Chapters: American College of Veterinary Pathologists. New Orleans, LA

People's Choice Award Nov 2016  
Poster: Chemodectoma in a Meerkat (*Suricata suricatta*). C.L. Peck, **L.R. Bower**, and M.M. Sula.  
American College of Veterinary Pathology. New Orleans, LA

Relationship Centered Care Award May 2014  
Argus Institute. College of Veterinary Medicine and Biomedical Sciences  
Colorado State University, Fort Collins, CO