

Rachel K. Berngantt, D.V.M.



EMPLOYMENT HISTORY AND SKILLS

Owner/Veterinarian

Bridge Veterinary Services, LLC, Juneau, Alaska: 2005-current. Provides contract clinical veterinary services: small animal veterinary care (currently providing services for Juneau Veterinary Hospital), sled dog veterinary care (lead veterinarian for Alaska Icefield Expeditions for 2015-2018), marine mammal research and stranding (contract necropsy services for Alaska Veterinary Pathology Services and clinical field services in McMurdo Station, Antarctica for Massachusetts General Hospital/Harvard through Partners Healthcare for Weddell seal research). Provided equine and farm animal veterinary services throughout Alaska (2005-2014). Provided on-site pet animal cremation service and in-home end-of-life services (2007-2012). Knowledgeable about local and state business laws, budgeting, accounting practices, public relations, and marketing. Led efforts to push forward change of State of Alaska Veterinary Regulations to permit in-good-faith reporting of animal neglect/abuse. High School Science Fair Supervising Veterinarian for vertebrate species (2011-2014). Volunteers regularly with Alaska Department of Fish and Game projects including aerial mountain goat survey work, scientific equipment servicing, captive wildlife evaluation, neonatal animal care, and public outreach.

Seed Intellectual Property Law Group

Summer Associate, Biotech Division, Seattle, WA: June 2019-July 2019. Drafted responses to Office Actions to United States Patent and Trademark Office (USPTO) (both foreign and domestic), compiled due diligence assessment studies, completed patent surveys, research USPTO and European Patent Office decisions, drafted assignments for U.S. and Foreign patents, drafted amendments to claims, drafted communications to Foreign Associates regarding patent applications in the United States, researched and drafted copyright ownership issues, and technical translation (i.e. DNA sequence to Amino Acid sequencing for purposes of patent survey).

Clinical Field Services Veterinarian, Co-Investigator

University of Alaska, Anchorage: McMurdo Station, Antarctica: 2013 (Nov/Dec), 2015 (Jan/Feb), 2015 (Nov/Dec), 2016 (Jan/Feb) and 2016 (Nov/Dec) field seasons. Team field services veterinarian responsible for anesthesia and medical evaluation of Weddell seals (*Leptonychotes weddellii*) for National Science Foundation funded research "The cost of a new fur coat: Interactions between molt and reproduction in Weddell seals," Jennifer Burns, PhD., Principal Investigator. Taught classes in veterinary emergency preparedness and veterinary techniques for the researcher. Served as Antarctic Conservation Association Historic Hut Guide for 2013, 2015 and 2016 seasons. Completed extensive USAP (United States Antarctic Program) training including cold weather survival. Completed University of Alaska IACUC training. Provided necropsy services and multi-

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agency written reports. Responsible for accurate data collection, proper sampling technique, processing samples, and planning veterinary supplies for field use. Participated in permit amendment working groups. Responsible for controlled drug inventory and documentation. Participated in reproductive ultrasound (percutaneous and transrectal) workshop at the Vancouver Aquarium September 2014 studying fur seal (*Callorhinus ursinus*) and Steller sea lion (*Eumetopias jubatus*) anatomy. Familiar with animal identification, tagging, and tracking utilizing VHF radio and satellite techniques.

Stranding Veterinarian

NOAA NMFS Marine Mammal Stranding Network: 2005-Current. Stranding Agreement/Letter of Authorization Holder with NMFS since 2007. Provide rapid response to stranded dead or live marine mammals, including triage and medical care prior to transport to Alaska SeaLife Center. Necropsy services for pinniped and cetacean species to include large whales. Submission of Level A data forms and necropsy reports. Regularly led public outreach events directed to adults and children. Presentation, participation and attendance at regional and national stranding meetings. Completion of MARVET training, Sausalito, CA 2008. Attended NOAA NMFS Large Whale Disentanglement Training August 2015.

Clinical Field Services Veterinarian

Alaska SeaLife Center: McMurdo Station, Antarctica: 2011 and 2012 field seasons. Team field services veterinarian responsible for anesthesia and medical evaluation of Weddell seals (*Leptonychotes weddellii*) for National Science Foundation funded research "Thermoregulation in Free-ranging Weddell Seals," Jo-Ann Mellish, PhD., Principal Investigator. Taught classes in emergency preparedness for the researcher and served as Antarctic Conservation Association Historic Hut Guide for 2012 season. Completed extensive USAP (United States Antarctic Program) training. Provided necropsy services and multi-agency written reports. Responsible for accurate data collection and technique, processing samples and planning veterinary supplies for field use. Participated in permit amendment working groups. Responsible for controlled drug inventory and documentation.

Relief Veterinarian

Alaska SeaLife Center, Seward, Alaska: 2007-2013. Relief veterinarian responsible for providing veterinary services for animals in rehabilitation, research, and curatorial collections. Knowledgeable and responsible for maintaining compliance with federal permit regulations relating to marine mammals. Trained in IACUC policy and procedures. Supervised interns, technicians and volunteers. Participated in environmental enrichment programs for captive animals. Volunteered for fundraising programs regularly. Veterinary medical experience with pinniped, mustelid (specifically

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Enhydra lutus), avian and fish species. Provided veterinary surgical support for research involving life history transmitter (LHX) abdominal implantation in Steller sea lions (*Eumetopias jubatus*) Completed continuing education in the field of marine mammal/aquatic animal medicine regularly.

Clinical Field Services Veterinarian

Alaska Department of Fish and Game / National Park Service: Glacier Bay, AK and Prince William Sound, AK: 2004-2008. Contract Veterinary Surgeon for research on harbor seals (*Phoca vitulina*). Vessel based operations consisting of surgical implantation of VHF transmitters, anesthesia, medical management, capture in both terrestrial and ice haul-out habitat. Sampling (fur, vibrissae, milk, teeth, blubber, skin, muscle, tracheal mucous, gastric contents, blood, feces), tagging (PIT, VHF, TDR, satellite), scat collection, and photo documentation. Contracted through Gail Blundell, PhD., Principal investigator (2004-2007) and Jamie Womble, M.S., Principle Investigator (2008).

Veterinarian

2015 Iditarod and 2017 Iditarod Veterinary Team: Completed International Sled Dog Veterinary Medicine Association continuing education, March 2015. Conducted pre-race health checks for sled dogs. Conducted health exams during the Iditarod for racing dogs, cared for dropped dogs, provided veterinary consultation to mushers regarding the care of their team and provided treatment for injured/ill dogs. Led vaccination clinic for village of Shaktoolik.

Clinical Director

Gastineau Humane Society, Juneau, Alaska: affiliated since November 2004 (contract), employed January 2006-December 2014. Served as the Veterinary Clinical Director for open admission, private non-profit (c103) shelter. Supervised clinic employees and serve as liaison between clinic and other shelter departments. Performed shelter and public spay/neuters, provided veterinary care for sheltered animals including medical and surgical treatment, implemented disease prevention programs in shelter, oversaw Rabies vaccination program for Animal Control, provided necropsy services, provided examination and expert testimony for cruelty and neglect cases, on-call services for Animal Control, expert support for community disaster planning. Taught courses on animal-related material for employees and public (adults and children), as well as lead public outreach events. Instructed veterinary student interns. Participated regularly in appropriate shelter research studies. Wrote policies and procedural documents. Adept in utilizing software including ShelterNet and all Microsoft Office programs. Completed continuing education in the field of Shelter Medicine regularly. Implemented "Guidelines for Standards of Care in Animal Shelters" published by the Association of

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Shelter Veterinarians. Led and participated in fundraising events; acquired corporate grants and private donations. Spoke on local radio networks regarding events and programs. Testified in front of legislative committees regarding animal law.

Associate Veterinarian

After Hours Emergency Veterinary Clinic, Inc., Fairbanks, Alaska: Nov 2004-April 2005, and October 2002-April 2003. Provided emergency veterinary care for canine and feline species.

Associate Veterinarian

Southeast Alaska Veterinary Clinic, Juneau, Alaska: May 2003-Nov 2004. Provided medical and surgical care for equine, canine and feline species.

Ballaine Veterinary Clinic, Fairbanks, Alaska: May 2002-October 2002.

Fredericktown Veterinary Clinic, Inc., Fredericktown, Ohio: June 2001-May 2002.

EDUCATION

The Ohio State University, College of Veterinary Medicine. Graduated June 2001 with the degree of Doctor of Veterinary Medicine.

Seattle University School of Law, Juris Doctor Candidate, May 2020.
GPA 3.760. Class Rank: 14/186 as of January 29, 2020.

PRESENTATIONS AND PUBLICATIONS

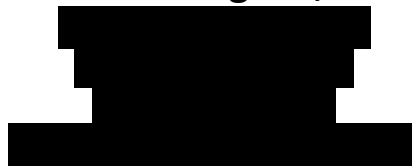
Herreman, J.K., McIntosh, A.D., **Dziuba, R.K.**, Blundell, G.M., Ben-David, M., Greiner, E.C. 2011. Parasites of harbor seals (*Phoca vitulina*) in Glacier Bay and Prince William Sound, Alaska. Marine Mammal Science, v. 27, i. 1, pp. 247-253.

Blundell, G.M., Hoover-Miller, A. A., Schmale, C. A., **Berngartt, R. K.**, Karpovich, S. A. Efficacy of subcutaneous VHF implants and remote telemetry monitoring to assess survival rates in harbor seals in Alaska. Journal of Mammalogy, v 95, i. 3.

Horning M, Haulena M, Tuomi PA, Mellish JE, Goertz CE, Woodie K, **Berngartt RK**, Johnson S, Shuert CR, Walker KA, Skinner JP, Boveng PL. Best practice recommendations for the use of fully implanted telemetry devices in pinnipeds. Anim. Biotelemetry (2017) 5:13.

Fahsbender, E, Burns, J.M., Kim, S., Kraberger, S., Frankfurter, G., Eilers, A., Shero, M., Beltran, R., Kirkham, A., McCorkell, R., **Berngartt, R.**, Male, M.F., Ballard, G., Ainley, D.G.,

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Breitbart, M., Varsani, A. Diverse and highly recombinant anelloviruses associated with Weddell seals in Antarctica. Virus Evolution, v 3, i. 1.

Smeele ZE, Burns JM, Van Doorsaler K, Fontenele RS, Waits K, Stainton D, Shero MR, Beltran RS, Kirkham AL, **Bergartt R**, Krabberger S, Varsani A. Diverse papilloma viruses identified in Weddell seals. J Gen Virol. 2018 Apr;99(4):549-557.

Bergartt, R.K. Presented “3 Seasons as a Clinical Field Services Veterinarian in the Antarctic.” 2014 Juneau Yacht Club, Juneau Alaska.

Bergartt, R.K. Presented Steller Sea Lion Necropsy Techniques and Wetlab. 2011. Alaska Region Stranding Meeting, Seward Alaska.

Bergartt, R.K., Presented Case Studies from the Southeast Alaska Region, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014 and 2015. Alaska Regional Stranding Meeting, Seward, Alaska.

Bergartt, R.K., Sitka Steller Sea Lion Necropsy Case Study. 2012. NMFS Alaska Region Stranding Network newsletter.

Bergartt., R.K., From Alaska to Antarctica: Adventures in Marine Mammal Science. 2012. NMFS Alaska Region Stranding Network newsletter.

Bergartt, R.K. Whalefest, Sitka, Alaska: 2009, 2010. Science in the Schools. Necropsy Workshop Leader.

VETERINARY AWARDS

Recipient, Association of Shelter Veterinarians Scholarship for Continuing Education. January 2012.

Recipient, Oiled Wildlife Care Network Scholarship for Continuing Education. May 2015.

LAW STUDENT AWARDS

Dean’s List (2017-2018, 2018-2019, 2019-2020). Presidential Law Scholarship (2017, 2018, 2019). Alaska Student Law Scholarship (2017, 2018, 2019). Seed IP Group Founder’s Scholarship Recipient (2018). CALI Excellence for the Future Award, Torts. CALI Excellence for the Future Award, Legal Writing I. CALI Excellence for the Future Award, Gender Law. Finalist for the Seattle University Cheney/Metzger Legal Writing Scholarship (2018).

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PROFESSIONAL LICENSES

State of Ohio: Licensed Veterinarian, 2001-2003.

State of Alaska: Licensed Veterinarian, 2002-current.

State of Washington: Licensed Veterinarian, 2017 – 2019.

Drug Enforcement Administration (DEA): Licensed Practitioner, 2005-current.

PROFESSIONAL MEMBERSHIPS

NOAA NMFS Marine Mammal Stranding Agreement: Letter holder, 2007 – current.

American Veterinary Medical Association: Member, 2001-current.

American Veterinary Medical Law Association: Member, 2017-current.

Evidence Based Veterinary Medicine Association: Member, 2012-current.

BOARD SEATS

Alaska State Board of Veterinary Medical Examiners: Member, March 2016-Current.

University of Alaska Fairbanks, Institutional Animal Care and Use Committee: Veterinary Member, May 2017-Current.

Regulatory Policy Task Force, American Association of State Veterinary Boards: Member, 2018-Current.

City and Borough of Juneau Animal Advisory Board: Veterinary Member, 2004-2016

CERTIFICATIONS

Fear Free Certification for Veterinary Professionals: certified 2018.

Better Veterinary Visits Certified, Karen Pryor Academy: certified 2018.

USFS USDA A-213 Water Ditching and Survival: certified 2011, 2012.

24 Hour HAZWOPER for Wildlife Professionals: certified 2011, 2014, 2015, 2016, 2017, 2018, 2019.