

Amanda Ardente, DVM, PhD

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AMANDA@ARDENTEVETNUTRITION.COM

EDUCATION

Doctor of Philosophy

Aquatic Animal Health Program and Small Animal Clinical Sciences

University of Florida College of Veterinary Medicine, Gainesville, FL (2011-2016)

Research topic: Investigating the role nutrition plays in ammonium urate kidney stone development in managed bottlenose dolphins, Tursiops truncatus

Small Animal Rotating Internship (Nutrition)

North Carolina State University College of Veterinary Medicine, Raleigh, NC (2009-2010)

Doctorate of Veterinary Medicine

North Carolina State University College of Veterinary Medicine, Raleigh, NC (2005-2009)

Bachelor of Science, Veterinary Medical Technology; Chemistry minor

Wilson College, Chambersburg, PA (1998-2002)

PROFESSIONAL POSITIONS

Business Owner, Nutrition Consultant

Ardente Veterinary Nutrition LLC, Gainesville, FL (August 2017-present)

- Nutrition Consultant, zoo/aquarium facilities: CuriOdyssey at Coyote Point (San Mateo, CA); Turtle Back Zoo (West Orange, NJ); Cape May County Park & Zoo (Cape May, NJ); Birmingham Zoo (Birmingham, AL); Six Flags Discovery Kingdom (Vallejo, CA); Brookfield Zoo (Brookfield, IL); Dolphin Island, Resorts World Sentosa (Singapore)
- Nutrition Consultant, companion animal clients
- Research Consultant, Animal Necessity LLC (New York, NY)

Nutrition Consultant

National Marine Mammal Foundation, San Diego, CA (August 2017-present)

Post-doctoral Associate, Animal Nutrition Center

Disney's Animal Kingdom, Orlando, FL, in conjunction with University of Florida, Gainesville, FL (February 2016-September 2017)

Graduate Research Assistant

University of Florida Aquatic Animal Health Program, Gainesville, FL (August 2011-February 2016)

Teaching Assistant

University of Florida Aquatic Animal Health Program, Gainesville, FL (August 2012-May 2015)

Relief Veterinarian

Veterinary Emergency Clinic of Central Florida, Leesburg, FL (September 2011-present)

Jacksonville Community Pet Mobile Clinic, Jacksonville, FL (September 2012-January 2016)

Banfield Pet Hospital #303, Gainesville, FL (September 2011-September 2012)

Associate Veterinarian

Valley Cottage Animal Hospital, Valley Cottage, NY (July 2010-June 2011)

Small Animal Rotating Intern (Nutrition)

NCSU Veterinary Teaching Hospital, Raleigh, NC (June 2009-June 2010)

Small Animal Intensive Care Unit (ICU) Supervisor (Supervised 11 veterinary technicians)

NCSU Veterinary Teaching Hospital, Raleigh, NC (September 2003-July 2005)

EDUCATIONAL EXPERIENCES

Practical Zoo Nutrition Management, Smithsonian-Mason School of Conservation – 2018

Relevant PhD graduate coursework, University of Florida:

- BCH 6206 Advanced Metabolism (3)
- ANS 5446 Animal Nutrition (3)
- FOS 6315C Advanced Food Chemistry (4)
- HUN 6356 Minerals in Nutrition (3)
- STA 6166 Statistical Methods in Research I (3)
- STA 6167 Statistical Methods in Research II (3)
- VME 6771 Veterinary Epidemiology Research (3)
- ALS 6046 Grant Writing (2)
- Journal clubs/seminars: Zoological medicine journal club (2013-current), Topics in Aquatic Animal Health seminar course (2012, 2013)

Conferences attended, Zoo/nutrition focus:

- Comparative Nutrition Society – 2014
- International Association for Aquatic Animal Medicine – 2013, 2015, 2016, 2017
- American Association of Zoo Veterinarians Conference – 2008, 2009, 2010, 2013, 2017
- Nutrition Advisory Group – 2009, 2013, 2015, 2017
- Crissey Zoological Nutrition Symposium – 2008, 2010
- Association of Reptile and Amphibian Veterinarians – 2008

Research Experiences

- Bottlenose dolphin annual health assessments, Chicago Zoological Society's Sarasota Dolphin Research Project, Sarasota, FL (May 2012-2015)
- Sarasota Bay prey abundance surveys, Chicago Zoological Society's Sarasota Dolphin Research Project, Sarasota, FL (Summer months 2013-2014)
- Bottlenose dolphin husbandry/nutritional assessments, Atlantis Aquarium, Paradise Island, Bahamas (August 2011, March 2012)
- Loggerhead sea turtle health assessments, NCSU-CMAST, Morehead City, NC (May 2006, 2007)
- Green iguana blood pressure study, University of Georgia, Athens, GA (November 2007)
- Bottlenose dolphin project, NOAA, Beaufort, NC (April 2006)

Nutrition-focused Veterinary Internship Research Project

North Carolina Zoo, Asheboro, NC (June 2009-June 2010)

- Research topic: determine the gastrointestinal transit time of chimpanzees, *Pan troglodytes*
- Collaborated with Drs. Mike Loomis, Ryan DeVoe, Sathya Chinnadurai, and Betsy Stringer, the Curator of Mammals and zoo keeper staff to develop and implement research plan

Veterinary Externships

- Mystic Aquarium and Institute for Exploration, Mystic, CT (February 2009-March 2009)

- Worked under the supervision of Drs. Allison Tuttle and Barbara Biancani to provide veterinary care to collection animals
- Worked with Dr. Lisa Mazzaro to research general theory and practices in teleost fish nutrition, providing a presentation reviewing current literature in fish nutrition to the Mystic Aquarium veterinary/research staff
- Massey University Wildlife Health Center, Palmerston North, New Zealand (May 2007)
 - Worked with marine avian species, assisting with husbandry, medical treatments, and diagnostic and surgical procedures

Merck-Merial Veterinary Student Internship Program

North Carolina State University CVM, Raleigh, NC (May 2006-August 2006)

- Research topic: topical sevoflurane anesthetic use in amphibians
- Research mentors: Dr. Patrick Burns and Dr. Ronald Baynes

Notable Elective Coursework, North Carolina State University CVM (August 2005-May 2009)

- VMC 991U – Primate Medicine
- VMC 991V – Environmental Medicine and Policy
- VMC 991Z – Advanced Herpetological Medicine
- VMC 991W – International Veterinary Medicine
- VMC 991U – Carnivore Medicine
- VMC 950 – Sea Turtle Medicine (clinical rotation)
- VMC 989 – Zoo Medicine (clinical rotation)

ORGANIZATIONS AND SERVICE WORK

American Academy of Veterinary Nutrition, Member-at-Large (June 2017-present)

Nutrition chapter primary author, AZA Kea Husbandry Manual Update (March 2013-present)

Veterinarian (volunteer), St. Francis Pet Care Clinic, Gainesville, FL (January 2012-present)

Reviewer: Journal of Zoo and Wildlife Medicine (2013-current), Zoo Biology (2015-present), PLOS ONE (2014-present)

Case Studies coordinator, Nutrition Advisory Group (NAG) 2015 Conference Planning Committee (August 2014-September 2015)

Secretary, American Academy of Veterinary Nutrition (June 2010-June 2012)

Nutritionist (volunteer), Trevor Zoo at the Millbrook School, Millbrook, NY (November 2010-June 2011)

Co-President and Co-Captain, NCSU Turtle Rescue Team (May 2005-May 2008)

Delegate, Student American Veterinary Medicine Association, House of Delegates (March 2006-May 2008)

Class Books Representative, Veterinary Educational Textbooks, Inc., Raleigh, NC (August 2005-May 2008)

PROFESSIONAL QUALIFICATIONS

- Doctor of Veterinary Medicine, Florida (current), North Carolina and New York (not current)
- Registered Veterinary Technician, North Carolina (not current)

PEER-REVIEWED PUBLICATIONS

- Barratclough A, Ardente AJ, Boren B, Ialeggio D, and Garner MM. Xanthine nephrolithiasis in giant otters (*Pteronura brasiliensis*). *Journal of Zoo and Wildlife Medicine*. Under review.
- Le-Bert C, Smith CR, Poindexter J, **Ardente A**, Meegan J, Wells R, Venn-Watson S, Jensen E, Sakhae K. Comparison of potential dietary and urinary risk factors for ammonium urate nephrolithiasis in two bottlenose dolphin (*Tursiops truncatus*) populations. *American Journal of Physiology-Renal Physiology*. 2018. Accepted.
- **Ardente AJ**, Garrett TJ, Colee J, Vagt BJ, Walsh MT, Wells RS, Smith CR, Jensen ED, Schmitt TL, Hill RC. 2017. Differences in purine metabolite concentrations in the diet in managed and free-ranging common bottlenose dolphins, *Tursiops truncatus*. *Aquatic Mammals*. 43 (6). doi: 10.1578/AM.43.6.2017.xxx.
- **Ardente AJ**, Wells RS, Smith CR, Walsh MT, Jensen ED, Schmitt TL, Colee J, Vagt BJ, and Hill RC. 2016. Dietary cation-anion difference may explain why ammonium urate nephrolithiasis occurs more frequently in common bottlenose dolphins (*Tursiops truncatus*) under human care than in free-ranging common bottlenose dolphins. *Journal of Animal Science*. 95: 1396-1406. doi: 10.2527/jas2016.1113.
- **Ardente AJ**, Garrett TJ, Wells RS, Walsh MT, Smith CR, Colee J, and Hill RC. 2016. A targeted metabolomics assay to measure eight purines in the diet of common bottlenose dolphins, *Tursiops truncatus*. *Journal of Chromatography Separation Techniques*. 7:5. doi: 10.4172/2157-7064.1000334
- **Ardente AJ**, Hill RC. The nutrient composition of the diet of bottlenose dolphins, *Tursiops truncatus*, is better assessed relative to metabolizable energy than dry matter. *Journal of Zoo and Wildlife Medicine*. 2015; 46(2): 198-204.
- **Ardente AJ**. Investigating relationships between dolphin diets and kidney stones. *Nicks n' Notches*, Annual Summary of the Activities and Findings of the Chicago Zoological Society's Sarasota Research Program. November 2014; 14.
- Slifka KA, Wells RS, **Ardente AJ**, Crissey S (deceased, November 23, 2002). Comparative diet analysis of fish species commonly consumed by managed and free-ranging bottlenose dolphins (*Tursiops truncatus*). *The Internet Journal of Veterinary Medicine*. 2013; 10(1).
- **Ardente AJ**, Christian LS, Borst LB, Lewbart GA. Mistaken identity of a squamous cell carcinoma in captive red-eared slider turtle (*Trachemys scripta elegans*). *Journal of Zoo and Wildlife Medicine*. 2011; 42(4):770-773.
- **Ardente AJ**, Chinnadurai S, De Voe R, et al. Relationship between gastrointestinal transit time and anesthetic fasting protocols in the captive chimpanzee, *Pan troglodytes*. *Journal of Medical Primatology*. April 2011; 40(3): 181-187.
- **Ardente AJ**, Barlow BM, Burns P, et al. In-vitro pharmacokinetic study involving the transdermal absorption of sevoflurane in the bullfrog, *Rana catesbeiana*. *Environmental Toxicology and Pharmacology*. May 2008; 25:373-379.
- Chinnadurai SK, DeVoe R, Koenig A, Gadsen N, **Ardente A**, Divers SJ. Comparison of an implantable telemetry device and an oscillometric monitor for measurement of blood pressure in anesthetized and unrestrained green iguanas (*Iguana iguana*). *Veterinary Anaesthesia and Analgesia*. 2010; 37(5): 434-439.

PRESENTED ABSTRACTS

- Meegan J, Poindexter JR, Sakhae K, Le-Bert C, Johnson S, Venn-Watson S, **Ardente AJ**, Sur R, Jensen E, Smith C. Current strategies for diagnosis, treatment, management and prevention of renal calculi in bottlenose dolphins (*Tursiops truncatus*)... What we've learned and where we're headed. American Association of Zoo Veterinarians Conference. October 2018.
- **Ardente A**, Mejia-Fava J. Preliminary assessment of the clinical relevance and understanding of iron storage disease among facilities managing bottlenose dolphins, *Tursiops truncatus*. International Association for Aquatic Animal Medicine Conference. May 2018.
- Michaels LT, **Ardente AJ**, Field CL, Norris T, Gezon ZJ, Johnson SP. Optimizing the survival of malnourished stranded California sea lion pups and yearlings (*Zalophus californianus*) through select feeding strategies. International Association for Aquatic Animal Medicine Conference. May 2018.

- **Ardente A**, De Voe Ryan, Fontenot D, Pye G, Mylniczenko N, Atkins A, Gonzalez J, Sullivan K, Livingston S, Williams S, Valdes E. Investigating the mob: A tale of infiltration. AZA Nutrition Advisory Group 12th Conference on Zoo and Wildlife Nutrition. September 2017.
- **Ardente A**, William S, Mylniczenko M, Dickson J, Fredrickson A, Macdonald C, Young F, Sullivan K, Livingston S, Valdes E. Comparative serum biochemical, trace mineral, and vitamin analyses of free-ranging and managed green moray eels (*Gymnothorax funebris*) and the relationship to the diet fed to eels under human care. AZA Nutrition Advisory Group 12th Conference on Zoo and Wildlife Nutrition. September 2017.
- **Ardente A**, Sullivan K, Livingston S, Williams S, Colee J, and Valdes E. Practical investigation of cricket dust supplements commonly used to enhance diets provided to insectivore species under human care. AZA Nutrition Advisory Group 12th Conference on Zoo and Wildlife Nutrition. September 2017.
- **Ardente A**, Sincage J, Gezon Z, Savage A, Valdes E. Development of an artificial diet to support conservation efforts of the Atala hairstreak butterfly (*Eumaeus atala*). AZA Nutrition Advisory Group 12th Conference on Zoo and Wildlife Nutrition. September 2017.
- **Ardente A**, William S, Mylniczenko M, Dickson J, Fredrickson A, Macdonald C, Young F, Sullivan K, Livingston S, Valdes E. Comparative serum biochemical, trace mineral, and vitamin analyses of free-ranging and managed green moray eels (*Gymnothorax funebris*) and the relationship to the diet fed to eels under human care. International Association for Aquatic Animal Medicine Conference. May 22nd, 2017.
- Meegan JM, Poindexter JR, Sakhaee K, Baird M, Parry C, Le-Bert C, **Ardente AJ**, Jensen ED, Venn-Watson S, Smith CR. Dietary effects on urinary physicochemistry in a managed population of bottlenose dolphins (*Tursiops truncatus*). International Association for Aquatic Animal Medicine Conference. May 25th, 2016.
- **Ardente AJ**, Garrett TJ, Wells RS, Smith CR, Hill RC. A comparative nutrient analysis of model diets consumed by common bottlenose dolphins, *Tursiops truncatus*, may explain why some dolphins form ammonium urate nephroliths. International Association for Aquatic Animal Medicine Conference. May 25th, 2016.
- **Ardente AJ**, Scott KC, Vagt BJ, Hill RC. A comparative nutrient analysis of fish species consumed by managed and free-ranging common bottlenose dolphins, *Tursiops truncatus*, with respect to ammonium urate nephrolithiasis. AZA Nutrition Advisory Group 11th Conference on Zoo and Wildlife Nutrition. September 2015.
- **Ardente AJ**, Garret TJ, Scott KC, Hill RC. A targeted metabolomics assay to measure purines in the diet of managed and free-ranging common bottlenose dolphins, *Tursiops truncatus*. AZA Nutrition Advisory Group 11th Conference on Zoo and Wildlife Nutrition. September 2015.
- **Ardente AJ**, Garrett TJ, Hill RC. A targeted metabolomics assay to measure purines in the diet of managed and free-ranging common bottlenose dolphins, *Tursiops truncatus*. International Association for Aquatic Animal Medicine Conference. April 8th, 2015.
- **Ardente AJ**, Garrett TJ, Hill RC. A targeted metabolomics assay to measure purines in the diet of managed and free-ranging common bottlenose dolphins, *Tursiops truncatus*. University of Florida College of Veterinary Medicine Phi Zeta Annual Research Symposium. March 2015.
- **Ardente AJ**, Hill RC. Why the nutrient composition of the diet of bottlenose dolphins, *Tursiops truncatus*, is best assessed on an energy basis rather than dry matter basis. AZA Nutrition Advisory Group 10th Conference on Zoo and Wildlife Nutrition. October 2013.
- **Ardente AJ**, Chinnadurai S, Saker K. “Gastrointestinal transit time and its relationship to fasting protocols utilized prior to anesthetic immobilizations in the captive chimpanzee, *Pan troglodytes*.” Crissey Zoological Nutrition Symposium. North Carolina State University College of Veterinary Medicine, NC. December 2010.
- **Ardente AJ**, Chinnadurai S, Saker K. Gastrointestinal transit time of chimpanzees, *Pan troglodytes*, and its relationship to fasting protocols utilized prior to anesthetic immobilizations in captive great apes. American Academy of Veterinary Nutrition Clinical Nutrition and Abstract Symposium. June 2010.
- **Ardente AJ**, Barlow BM, Burns P, et al. In-vitro vehicle effects and pharmacokinetics involving the transdermal absorption of sevoflurane in the bullfrog, *Rana catesbeiana*. Association of Reptilian and Amphibian Veterinarians. Los Angeles, CA, October 2008.

- **Ardente AJ**, Burns P, Davidson G, et al. In-vitro pharmacokinetic study involving the transdermal absorption of sevoflurane. North Carolina State University 2007 College of Veterinary Medicine Research Forum. Raleigh, NC, March 2007.

INVITED LECTURES AND PRESENTATIONS

- **University of Florida**
 - Basic Veterinary Nutrition. “Small Exotic Mammal Nutrition.” April 2018, 2019.
 - Aquatic Animal Health Program. “Introduction to Aquatic Nutrition.” November 2017.
 - College of Veterinary Medicine, Doctoral Defense Seminar. “Investigation of the role nutrition plays in the development of ammonium urate nephrolithiasis in common bottlenose dolphins, *Tursiops truncatus*.” April 2016.
 - College of Medicine Department of Urology. “Ammonium urate nephrolithiasis in managed bottlenose dolphins, *Tursiops truncatus*.” July 2015.
 - Aquatic Animal Health Seminar. “Feeding considerations for managed bottlenose dolphins, *Tursiops truncatus*.” December 2014.
- **North Carolina State University**
 - College of Veterinary Medicine, Molecular Biological Sciences Department. “The role of nutrition in the development of nephrolithiasis in bottlenose dolphins.” October 2016.
 - North Carolina Veterinary Conference (NCVC). November 2012.
 - “Pre-anesthetic fasting: Is it just monkey business?”
 - “The skinny on managing pet obesity.”
 - “Urolithiasis and nutritional management.”
 - “One fish, two fish, red fish, fed fish? [Introduction to Aquatic Nutrition]”

RESEARCH GRANTS OBTAINED

- Mazuri Exotic Animal Nutrition Research Grant (2015) \$5,164
- United States Navy Marine Mammal Program (2013) \$22,320
- SeaWorld Parks and Entertainment, Inc. (2013) \$11,712
- Dolphin Quest (2013) \$8,000
- Mazuri Exotic Animal Nutrition Research Donation (2013) \$5,000

AWARDS

- Excellence in Doctoral Work, University of Florida College of Veterinary Medicine (2016)
- Student Travel Award, International Association of Aquatic Animal Medicine (2015)
- Veterinary Graduate Student Association “Best in Show” Award, University of Florida College of Veterinary Medicine (2015)
- Graduate Student Research Award, University of Florida College of Veterinary Medicine Small Animal Clinical Sciences (2015)
- Wildlife, Avian, Aquatic, and Zoo Medicine Award for Clinical Competence in Zoological Medicine: Herpetile Medicine, North Carolina State University College of Veterinary Medicine (2009)

PROFESSIONAL MEMBERSHIPS

- Nutrition Advisory Group
- Comparative Nutrition Society
- American Academy of Veterinary Nutrition
- International Association for Aquatic Animal Medicine
- American Association of Zoo Veterinarians
- American Veterinary Medical Association

- World Aquatic Veterinary Medical Association

PERSONAL INTERESTS AND HOBBIES

- Scuba Diving (SSI certified), kayaking, fishing, mountain biking, community service work