

## **Curriculum Vitae**

**Natalia Libanio Zidan, DVM**  
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### **Personal Information:**

Name: Natalia Libanio Zidan

Date of Birth: February 9, 1982

Nationality: Brazilian

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### **Education/Titles:**

March 2006  
Federal Fluminense University (UFF)  
Niteroi, RJ – Brazil.  
**Graduated in Veterinary Medicine - DVM**  
*This is a five-year graduate program.*

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### **Honor and Awards**

March 2002 – March 2004  
**Graduate Teaching Assistant of the  
Neuroanatomy Course - UFF**  
First place, Competitive academic  
scholarship position.

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### **Board Certification**

Diplomate of the American College of Veterinary Internal Medicine, Neurology 2022

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### **Postgraduate Training:**

July 2017 – July 2020  
**Neurology/ Neurosurgery Residency**  
**North Carolina State University - College of Veterinary Medicine**  
*This is a three-year program.*

January 2017 – June 2017  
**Neurology/ Neurosurgery Internship**  
**North Carolina State University - College of Veterinary Medicine**  
*This is a six-month program.*

February 2016 – January 2017  
**Neurology Fellowship**  
**North Carolina State University - College of Veterinary Medicine**  
*This is a one-year program.*

### Clinical Research - Spinal Cord Injury Program

Mentor: Dr. Natasha Olby

- Coordination, data collection and analysis for spinal cord injury clinical trials.
- Development of quantitative sensory testing protocols in dogs.
- Patient care of all in house post-op patients.
- Attended neurology and internal medicine rounds, journal clubs, and hospital seminars.
- Projects:
  - The Effect of Electromagnetic Fields on Post-operative Pain and Recovery of Locomotion in Dogs with Acute Intervertebral Disc Herniations
  - The Effect of Post-Operative Rehabilitation on Recovery from Acute Thoracolumbar Intervertebral Disc Herniations
  - Comparison of mechanical sensory thresholds in dogs with naturally occurring spinal cord injury and normal dogs

### Professional Experience:

July 2021 – present

#### **Clinical Assistant Professor in Small Animal Neurology University of Wisconsin - School of Veterinary Medicine**

- Coordination of the Neurology service in the clinical settings
- Teaching and supervision of students, interns and residents (didactic teaching, laboratory teaching and clinical teaching)
- Development of new knowledge through strong, independent research
- Involvement in committees at the Department, School and University level
- Involvement at the professional committee level
- Participation in continuing education programs for veterinary practitioners in Wisconsin

July 2020 – July 2021

#### **Clinical Veterinary Instructor in Neurology/ Neurosurgery**

#### **North Carolina State University - College of Veterinary Medicine**

*This is a one-year position.*

- Supervision of residents, interns and students in their clinical rotation
- Coordination of the Neurology service in the clinical settings
- Teaching students and residents during didactic rounds

July 2008 – November 2015

#### **Federal Fluminense University (UFF) – Small Animal Hospital – Niteroi/ RJ**

- Clinical Neurology – Staff Clinician and Service Chief
- Provided clinical services in the fields of neurology

- Collection and analysis of cerebrospinal fluid and interpretation of all neuroimaging modalities
- Lectured in various topics in veterinary neurology
- Instructed and supervised veterinary students rotating through the neurology service

February 2008 - November 2015

**Private Practice Veterinarian (Neurology)** – Staff Clinician  
*Animalia Animal Hospital* – Rio de Janeiro/ RJ

- Provided clinical services in the fields of neurology; including emergency service as needed
- Consulted with referring veterinarian about clinical cases
- Assisted spinal surgeries and craniotomies
- Collection and analysis of cerebrospinal fluid and interpretation of neuroimaging studies
- Lectured in various topics in veterinary neurology for referring veterinarians

March 2012 - November 2015

**Private Practice Veterinarian (Neurology)** – Staff Clinician  
*Ypiranga Animal Hospital* – Rio de Janeiro/ RJ

- Provided clinical services in the fields of neurology; including emergency service as needed
- Consulted with referring veterinarian about clinical cases
- Assisted spinal surgeries and craniotomies
- Collection and analysis of cerebrospinal fluid and interpretation of neuroimaging studies
- Lectured in various topics in veterinary neurology for referring veterinarians

July 2009 - January 2011

**Private Practice Veterinarian** – Staff Clinician  
*CittaVet Animal Hospital* Rio de Janeiro/ RJ, Brazil.

- General Practice and Clinical Neurology
- Provided medical and surgical care as well as clinical services in the fields of neurology; including emergency service as needed
- Rotated with other clinicians as on-call emergency veterinarian

July 2006 - March 2008

**Private Practice Veterinarian** – Staff Clinician  
*Animalia Animal Hospital* – Rio de Janeiro/ RJ, Brazil.

- Emergency and General Practice
- Provided medical care and routine surgeries
- ICU rotation
- Rotated with other clinicians as on-call emergency veterinarian

April 2006 - January 2010

**Private Practice Veterinarian** – Primary Clinician  
*Instituto Nacional de Proteção Animal INPA. – Animal Hospital* – Rio de Janeiro/ RJ, Brazil.

- Emergency, General Practice, and Clinical Neurology

- Emergency and General Practice
- Provide medical care and routine surgeries, as well as clinical services in the fields of neurology
- ICU rotation
- Rotate with other clinicians as on-call emergency veterinarian

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### Teaching Experience and Presentations:

- **Epilepsy Module** – Post-graduate students in Neurology/Neurosurgery- UFAPE Intercursos – Universidade Federal do Agreste de Pernambuco – 10h lecture - Feb 2023
- **An Update on Intervertebral Disc Disease in Dogs** - Greater Rockford Veterinary Medical Association (GRVMA) - invited online speaking; Rockford,IL Sep 2022
- **Diagnostic Imaging in Cognitive Dysfunction Syndrome** - Facultad de Veterinaria, Universidad de la Republica, Montevideo, Uruguay. – invited online speaking; Uruguay, Jul 2022
- **Advanced imaging: spinal surgery.** CRV imagem – invited online speaking; Brazil, Jun 2021
- **Updates on Prognostic Factors in canine IVDD.** ABNV (Brazilian Veterinary Neurology Association) – invited online speaking; Brazil, Aug 2021
- **Update in Canine Glioma.** ABNV (Brazilian Veterinary Neurology Association) – invited online speaking; Brazil, Oct 2021
- **Neuro-localization for radiologist.** CRV imagem – invited online speaking; Brazil, April 2021
- **Congenital and developmental Spinal Anomalies in dogs.** CRV imagem – invited online speaking; Brazil, Feb 2021
- **Pulsed Electromagnetic Field: an adjunctive therapy for post-operative pain in dogs with disc herniation.** – House Officer Seminar – North Carolina State University - College of Veterinary Medicine, October 2019.
- **“Nerves on Fire” – Long-term Postoperative Pain Evaluation in Dogs with Thoracolumbar Intervertebral Disc Herniation Following Hemilaminectomy.** – House Officer Seminar – North Carolina State University - College of Veterinary Medicine, October 2018.
- **Symposium on Current Concepts in Spinal Disorders – Brazilian Association of Small Animal Practitioners,** Rio de Janeiro – RJ, Brazil. *“Feline Spinal Cord Disease”*- November 09, 2014. 1-hour presentation
- **Post Graduation Program – Centro de Desenvolvimento de Medicina Veterinaria** – Small Animal Neurology – March 2013 – November 2015. 16 lecture hours on fundamentals of clinical neurology to veterinarians enrolled in the post-graduation program
- **University of Valença - College of Veterinary Medicine** – RJ, Brazil – November 2009 – 2015. 4 lecture hours to 4<sup>th</sup> year Veterinary students on fundamentals of clinical neurology

- **Federal Fluminense University (UFF) - College of Veterinary Medicine.** Niteroi – RJ, Brazil. “*Feline Spinal Cord Disease*”- September 29, 2013. 1 hour presentation
- **Federal Fluminense University (UFF) - College of Veterinary Medicine.** Niteroi – RJ, Brazil. “*Cognitive Dysfunction Syndrome*”- September 28, 2013. 1 hour presentation
- **Estacio de Sa University College of Veterinary Medicine.** Rio de Janeiro – RJ, Brazil. “*Differential Diagnosis of Rabies in Small Animals*”. – I Symposium of International Day Against Rabies. September 21, 2012. 1-hour presentation
- **University of Valença - College of Veterinary Medicine**– RJ, Brazil. “*Ataxia- Recognition and Approach in Small Animals*”- November 05, 2012. 1 hour presentation
- **Federal Fluminense University (UFF) - College of Veterinary Medicine.** Niteroi – RJ, Brazil. “*Neuro-ophthalmology – Clinical Approach*”- November 5, 2011. 1 hour presentation
- **Federal Fluminense University (UFF) - College of Veterinary Medicine.** Niteroi – RJ, Brazil. “*Seizure Disorders*” - October 16, 2011. 1 hour presentation
- **Global Vet Course “Neurological Emergencies”**- Small Animal Emergency Course. July 2, 2005. 8 lecture hours on fundamentals of small animal neurological emergencies to veterinarians enrolled in the course
- **Federal Fluminense University (UFF) - College of Veterinary Medicine.** Niteroi – RJ, Brazil. Graduate Teaching Assistant – Neuroanatomy –March 2002- March 2004.

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#### Peer-Reviewed Publications:

- Lueck L, Cameron S, **Zidan N**. Effects of trazodone administration on the neurologic examination in healthy dogs. J Vet Intern Med. 2022. doi: 10.1111/jvim.16536
- Mackey E, Rasche BL, Early PJ, **Zidan N**, Negrão Watanabe TT (2022). Pathology in Practice, *Journal of the American Veterinary Medical Association*, 259(S2), 1-5. Retrieved Jun 27, 2022, from <https://avmajournals.avma.org/view/journals/javma/259/S2/javma.20.11.0604.xml>
- Mariani CL, Nye CJ, Ruterbories L, Tokarz DA, Green L; Lau J; **Zidan N**; Early PJ; Muñana KR; Olby NJ; Lee CS; Guevar J. Cerebral Fluid Lactate concentration in dogs with seizure disorder. J Vet Intern Med. 2020 doi: 10.1111/jvim.15953.
- Guevar J, **Zidan N**, Durand A, Olby N. Minimally invasive spine surgery in dogs: Evaluation of the safety and feasibility of a thoracolumbar approach to the spinal cord. Vet Surg. 2020 doi: 10.1111/vsu.13385.
- **Zidan N**; Medland J; Olby N. Long-term postoperative pain evaluation in dogs with thoracolumbar intervertebral disk herniation after hemilaminectomy. J Vet Intern Med. 2020 doi: 10.1111/jvim.15800.
- Mariani C, Nye C, Tokarz D, Green L; Lau J; **Zidan N**; Early P; Guevar J; Muñana K; Olby N; Miles S. Cerebral Fluid Lactate in Dogs with Inflammatory Central Nervous System Disorders. J Vet Intern Med. 2019 doi: 10.1111/jvim.15606.
- OlbyNJ, Lim JH, Wagner N, **Zidan N**, Early PJ, Mariani CL, Muñana KR, Laber E. Time course and

prognostic value of serum GFAP, pNFH, and S100 $\beta$  concentrations in dogs with complete spinal cord injury because of intervertebral disc extrusion. *J Vet Intern Med.* 2019 Feb 13. doi: 10.1111/jvim.15439.

- Moore, SA, **Zidan N**, Spitzbarth I, Nout-Lomas YS, Granger N, da Costa RC, Levine JM, Jeffery ND, Stein VM, Tipold A, Olby NJ. Development of an International Canine Spinal Cord Injury observational registry: a collaborative data-sharing network to optimize translational studies of SCI. *Spinal Cord.* 2018 Jul; 56(7):656-665. doi: 10.1038/s41393-018-0145-4.
- **Zidan N**, Sims C, Fenn J, Williams K, Griffith E, Early PJ, Mariani CL, Munana KR, Guevar J, Olby NJ. A randomized, blinded, prospective clinical trial of postoperative rehabilitation in dogs after surgical decompression of acute thoracolumbar intervertebral disc herniation. *J Vet Intern Med.* 2018 May; 32(3): 1133-1144. doi: 10.1111/jvim.15086.
- **Zidan N**, Fenn J, Griffith E, Early PJ, Mariani CL, Muñana KR, Guevar J, Olby NJ. The Effect of Electromagnetic Fields on Post-Operative Pain and Locomotor Recovery in Dogs with Acute, Severe Thoracolumbar Intervertebral Disc Extrusion: A Randomized Placebo-Controlled, Prospective Clinical Trial. *J Neurotrauma.* 2018 Aug 1; 35(15): 1726-1736. doi: 10.1089/neu.2017.5485.

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#### Research Reports and Abstracts published in proceedings and presentation:

- LUECK LC; **ZIDAN N**; CAMERON S. Effects of Trazodone Administration on the Neurologic Examination in Healthy Dogs. *ACVIM Forum.* Austin, 2022.
- **ZIDAN N**; MEDLAND J; OLBY N. Long-term Postoperative Pain Evaluation In Dogs With Thoracolumbar Intervertebral Disc Herniation Following Hemilaminectomy. *ACVIM Forum.* Phoenix, 2019.
- **ZIDAN N**; FENN J; OLBY N. The effect of pulsed electromagnetic fields on postoperative pain management in dogs with acute thoracolumbar intervertebral disc herniation. 2017 Annual CVM Research Forum - Oral Presentation. North Carolina State University Raleigh, NC. August 2017.
- **ZIDAN N**; MEDLAND J; OLBY N. Comparison of mechanical sensory threshold in dogs with naturally occurring spinal cord injury and normal dogs. 2016 Annual CVM Research Forum - Oral Presentation. North Carolina State University Raleigh, NC. August 2016.
- **ZIDAN N**; MOURA MP; FIGUEREDO R. Polyneuropathy associated with hypothyroidism in ten dogs. *International Conference: Endocrinology in Small Animal Practice*, November 2010.
- RODRIGUES, MR; CALIXTO, FAA; ZANANI, RTF; SANTOS, ROM; **ZIDAN, NL**. Extrinsic Denervation of the Canine Heart- Morphological Evaluation. *XXIX Conbravet, RS.* October 2002.
- FALCÃO, MVC; PEREIRA, SA; SANTOS, GJC; ALMEIDA, D; SOUZA, A; **ZIDAN, NL**. Surgical Intervention on External Ear Obstruction on three dogs – Case Report. *XXIX Conbravet, RS.* October 2002.
- PEREIRA, SA; FALCÃO, MC; SANTOS, GJC; ALMEIDA, D; **ZIDAN, NL**, SOUZA, A. Cutaneous drug reaction – Case Report. *XXIX Conbravet, RS.* October 2002.

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## **Externships/Shadowing Experience**

September 2014 - October 2014	<b>University of Georgia – College of Veterinary Medicine/ Small Animal Teaching Hospital.</b> Neurology (5 weeks)
August 2014	<b>North Carolina State University – College of Veterinary Medicine/ Veterinary Health Complex.</b> Neurology (3 weeks)
July 2014	<b>University of California – Davis School of Veterinary Medicine/ Veterinary Medical Teaching Hospital.</b> Neurology (4 weeks)
June 2014	<b>University of Wisconsin - Madison – School of Veterinary Medicine/ Veterinary Medical Teaching Hospital.</b> Neurology (3 weeks)
January 2014 - February 2014	<b>University of Florida – College of Veterinary Medicine/ Small Animal Teaching Hospital.</b> Externship – Neurology (5 weeks)
October 2007 - February 2008	<b>University of Tennessee – College of Veterinary Medicine/ Veterinary Teaching Hospital.</b> Externship - Small Animal Internal Medicine and Neurology
October 2005 - November 2005	<b>Sao Paulo State University - Unesp- Veterinary Teaching Hospital, Universidade Estadual Paulista – Araçatuba/São Paulo, Brazil.</b> Externship - Small Animal Internal Medicine
September 2005 - October 2005	<b>Sao Paulo State University - Unesp- Veterinary Teaching Hospital, Universidade Estadual Paulista – Araçatuba/São Paulo, Brazil.</b> Externship - Small Animal Surgery.
September 2004 – September 2005	<b>Estacio de Sa University – Rio de Janeiro/ RJ, Brazil.</b> Externship – Clinical Neurology/ Neurosurgery.
July 2003 – September 2005	<b>Federal Fluminense University (UFF) – Small Animal Hospital – Niteroi/ RJ, Brazil.</b> Internship - Small Animal Internal Medicine, Small Animal Surgery, Radiology

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## **Volunteer Work:**

- Spay day, Animalia Animal Hospital – Rio de Janeiro/ RJ, Brazil. Various dates- Feb/Jun 2015.

- Spay day, Instituto Nacional de Proteção Animal INPA. – Animal Hospital – Rio de Janeiro/ RJ, Brazil. Various dates- 2006-2010.
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#### **Courses Attended:**

- ***IXth Basic Neuropathology & Neuroanatomy Course.*** Universitat Autònoma de Barcelona - Spain. November 18 – 28, 2019.
- ***Veterinary Neuroscience and Advanced Clinical Neurology/Neurosurgery (Brain Camp).*** Università di Bologna - Facoltà di Medicina – Italy. July 23 – August 3rd, 2018.
- ***Veterinary Diagnostic Imaging Advanced Course (Brain Camp).*** Università di Bologna - Facoltà di Medicina – Italy. July 21 – 22, 2018.
- ***Veterinary Neuropathology Advanced Course (Brain Camp).*** Università di Bologna - Facoltà di Medicina – Italy. July 31 – August 1th, 2010.
- ***Veterinary Neuroscience and Advanced Clinical Neurology/Neurosurgery (Brain Camp).*** Università di Bologna - Facoltà di Medicina – Italy. July 19 – 30, 2010.
- ***Veterinary Diagnostic Imaging Advanced Course (Brain Camp).*** Università di Bologna - Facoltà di Medicina – Italy. July 17 – 18, 2010.
- ***Veterinary Neuroscience and Advanced Clinical Neurology/Neurosurgery (Brain Camp).*** North Carolina State University – College of Veterinary Medicine, USA. July 28 - August 8, 2008.
- ***I Symposium of Veterinary Cardiology.*** Universidade Federal Fluminense – Niteroi, Brazil, 2004.
- ***Veterinary Acupuncture Course.*** Universidade Federal Rural do Rio de Janeiro – Seropédica, Brazil, 2004.
- ***Small Animal Emergency and Critical Care Course.*** Universidade Federal Fluminense – Niteroi, Brazil, 2004.

#### **Continuing Education and Conferences Attended:**

- Neurolatinvet Online Conference- Oct 2021
- American College of Veterinary Internal Medicine – ACVIM Forum. Austin, 2022.
- American College of Veterinary Internal Medicine – ACVIM Forum. Phoenix, 2019.
- Symposium – Brazilian Association of Veterinary Neurology – ABNV, Rio de Janeiro, 2018.
- Biannual symposium of the South American Veterinary Neurology Association - Neurolatinvet – Medellin, Colombia, 2015.
- Symposium – Brazilian Association of Veterinary Neurology – ABNV, São Paulo, 2015.
- International Congress Italian Companion Animal Veterinary Association - SCIVAC – Veterinary Neurology, Verona, Italy, 2015.
- 24<sup>th</sup> Brazilian Conference of Veterinary Medicine – Brazilian Association of Small Animal Practitioners – ANCLIVEPA, Porto Seguro, 2015.
- Symposium – Brazilian Association of Veterinary Neurology – ABNV, Bento Gonçalves, 2014.



- IX Brazilian Congress of Veterinary Surgery. Bento Gonçalves, 2014.
- American College of Veterinary Internal Medicine – ACVIM Forum. Nashville, 2014.
- American College of Veterinary Internal Medicine – ACVIM Forum. Seattle, 2013.
- IV Symposium Agener União – Veterinary Neurology. Sao Paulo, 2013.
- 34<sup>th</sup> Brazilian Conference of Veterinary Medicine – Brazilian Association of Small Animal Practitioners – ANCLIVEPA. NATAL, 2013.
- Biannual symposium of the South American Veterinary Neurology Association NEUROLATINVET. Bento Gonçalves, 2013.
- I International Symposium of Veterinary Neurology. Sao Paulo State University – UNESP College of Veterinary Medicine and Animal Science, Botucatu, 2013.
- IX Brazilian Congress of Veterinary Surgery and Anesthesiology. Buzios, 2010.
- I International Conference: Endocrinology in Small Animal Practice - ENDOVET. Buzios, 2010.
- 34<sup>th</sup> World Small Animal Veterinary Association Congress – WSAVA. Sao Paulo, 2009.
- 28<sup>th</sup> Brazilian Conference of Veterinary Medicine – Brazilian Association of Small Animal Practitioners – ANCLIVEPA. Florianopolis, 2007.
- 26<sup>th</sup> Brazilian Conference of Veterinary Medicine – Brazilian Association of Small Animal Practitioners – ANCLIVEPA. Salvador, 2005.
- 24<sup>th</sup> Brazilian Conference of Veterinary Medicine – Brazilian Association of Small Animal Practitioners – ANCLIVEPA. NATAL, 2005.

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Native Language: Portuguese

Other languages: English: Fluent (writing, reading, conversation).  
Spanish: Basic (writing, reading, conversation).

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## References

- **Natasha Olby, Vet MB, PhD, MRCVS, DACVIM (Neurology)**  
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- **Peter Early DVM, DACVIM (Neurology)**  
Clinical Associate Professor (Neurology/Neurosurgery), Department of Clinical Science, North Carolina State University  
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- **Carlos Souza, DVM, MS, DACVIM (Oncology), ACVS Fellow of Surgical Oncology**  
Assistant Professor (Oncology), University of Florida, Department of Small Animal Clinical Science

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Contact email: [souzachm@ufl.edu](mailto:souzachm@ufl.edu)

- **Christopher Mariani, DVM, PhD, DACVIM (Neurology)**

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