

**BIOMEDICAL & VETERINARY SCIENCES
GRADUATE PROGRAM**



ANNOUNCES

The Master of Science Seminar and Examination of

Richard Shinn

**“Magnetization Transfer and Diffusion Tensor
Imaging in Dogs with Intervertebral Disc Herniation”**

Monday, July 8th, 2019

9:00AM

VMIA Classroom 220

Bio



I went to Texas A&M University for veterinary school and graduated in 2013. Afterwards I did a rotating internship at Nashville Veterinary Specialist followed by two neurology specialty internships, the first at Gulf Coast Veterinary Neurology and Neurosurgery, then the second at The University of Missouri. Afterwards, I started my neurology residency at Virginia Maryland College of Veterinary Medicine.

Funded by

VMCVM Office of Research and Graduate Studies

Lay Language Abstract

Quantitative MRI metrics known as magnetization transfer ratio (MTR) and diffusion tensor imaging (DTI) were used to try and predict prognosis in dogs with naturally occurring intervertebral disc herniation.

Both MTR and DTI were helpful in predicting long term prognosis in dogs treated surgically.

Publications

Accepted

Current Veterinary Therapy XVI – Intracranial Tumors

Accepted

Canine snake-eye myelopathy: Clinical, magnetic resonance imaging, and pathologic findings in 4 cases

Presentations

2019 Spinal Cord Injury – The Basics & Looking Forward

2018 Introduction to 3D Printing

2017 Spinal Cord Segmentation

2017 Spinal Cord Injury: Predicting prognosis using quantitative magnetic resonance-based techniques

2016 Magnetic Resonance Imaging Spectroscopy

2016 The domestic cat as a natural animal model of Alzheimer's Disease

2016 Degenerative Lumbosacral Stenosis

Awards and Academic Achievements

2016 Intern Teacher of the year at The University of Missouri

2013

Griffith Cardiology Award at Texas A&M University

Examination Graduate Committee

Major Advisor/Chair:

Theresa Pancotto DVM, MS, DACVIM (Neurology), CCRP

Associate Professor, Neurology, Neurosurgery, and Physical Rehabilitation
Department of Small Animal Clinical Sciences

Graduate Advising Committee Members:

John Rossmeisl, DVM, MS, DACVIM (SAIM and Neurology)

Dr. and Mrs. Dorsey Taylor Mahin Professor, Neurology and Neurosurgery
Department of Small Animal Clinical Sciences

Krystina Stadler, DVM, DACVR

Radiologist

Summit Veterinary Referral Center



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