

CURRICULUM VITAE

Marcy Jan Souza

EDUCATION:

- B.S. University of Maryland, College Park, MD, May 1995
- D.V.M. North Carolina State University, Raleigh, NC, May 2004
- M.P.H. University of Tennessee, Knoxville, TN, May 2008
- M.P.P.A. University of Tennessee, Knoxville, TN, December 2017

UNIVERSITY APPOINTMENTS:

- Associate Professor of Veterinary Public Health
University of Tennessee, College of Veterinary Medicine, 7/14 - present
- Director of Veterinary Public Health
University of Tennessee, College of Veterinary Medicine, 10/13 - present
- Assistant Professor of Veterinary Public Health and Exotic Animal Medicine
University of Tennessee, College of Veterinary Medicine
Department of Biomedical & Diagnostic Sciences, Knoxville, TN 7/08 – 7/14
- Adjunct Faculty, Center for Wildlife Health
University of Tennessee, Knoxville, TN, 11/11 – present

PRACTICE (professional) EXPERIENCE:

- Resident in Avian & Zoological Medicine
University of Tennessee, College of Veterinary Medicine, Knoxville, TN
7/05 – 6/08
- Associate Veterinarian,
ABC Animal & Bird Clinic, Sugar Land, TX, 6/04 – 7/05
- Emergency Veterinarian (part time),
Animal Emergency Clinic, Sugar Land, TX, 9/04 – 6/05

BOARD CERTIFICATION:

- American Board of Veterinary Practitioners – Avian Practice, November 2007
- American College of Veterinary Preventive Medicine, June 2010

HONORS and AWARDS:

1. Houghton Trust Ltd, International Travel Grant, £650, Awarded 4/2009
2. Fulbright Specialist Roster, 6/2012 to 6/2017
 - a. Awarded grant to teach a 2-week course on wild and pet bird medicine at Madras Veterinary College, Tamil Nadu Agriculture and Veterinary Sciences University, Chennai, India (Jan 28 – Feb 11, 2013)
 - b. Awarded grant to teach 2 workshops; one on clinical avian medicine and one on One Health/conservation medicine at Andres Bello University, Santiago, Chile (January 9-26, 2016)
3. Wharton Faculty Development Fund Award, \$2,230, 3/2014
4. THEC Online Innovation Development Grant, \$25,000, 10/2014
 - a. “Birds 101: An Introduction to Pet Birds” launched November 1, 2015 on edX, ended December 31, 2017. This Mass online, open access class (MOOC) was available for free,

world-wide and had about 6,374 students enrolled; course can be found at:

<https://www.edx.org/course/birds-101-introduction-pet-birds-utennesseeex-birds101-1x>

5. Faculty First 2015 Program Award, UTK Office of Information Technology, 1/2015
 - a. This award provided support to upgrade and introduce new technology into CEM 507 which was taught summer 2015; technology will also be incorporated into CEM 506, a new class required for veterinary public health students.
6. Public Policy Faculty Fellow, American Association of Veterinary Medical Colleges, 7 week fellowship in Washington, D.C., \$10,000, summer 2016
7. Center for International Education Program Development Grant, \$750, May 2016
8. William T. Miles M.D. Memorial Award for Community Service, UTIA, August 2016

SOCIETY MEMBERSHIPS:

1. Wildlife Disease Association, 2011 – present
2. Association of Avian Veterinarians, 2001 – present
3. American Veterinary Medical Association, 2000 – present

TEACHING at College of Veterinary Medicine, University of Tennessee:

1. **Food Hygiene & Zoonoses (VMD 837):** 2-credit required course for 2nd/3rd year veterinary students
 - a. **2009 – 2012, spring:** presented four to five 1-hour lectures on zoonoses
 - b. **2013 – 2015, spring:** course coordinator and presented nine to twelve 1-hour lectures on zoonoses
 - c. **2016 - current, fall:** course coordinator and present 14 1-hours lectures
2. **Wildlife Diseases (CMVM/WFS 530):** 2-credit elective course for veterinary and graduate wildlife biology & ecology and evolutionary biology students; class had 13–20 students
 - a. **2008–2010, 2012, 2014 (currently offered every other fall):** course coordinator and primary lecturer, including lectures on population medicine & sample collection, One Health, avian diseases, rabies, diseases of raccoons & foxes, WNS and the role of bats in the ecosystem, and zoonoses. Course also included 1–2 necropsy labs that covered gross inspection, description, and sample collection of a carcass.
 - b. **2016, fall:** course –co-coordinator
3. **One Health (CEM 506):** 3-credit asynchronous, online course for DVM, MPH, and other graduate students; required for MPH (VPH) students; class typically has 8-10 students
 - a. **2016, spring:** course coordinator, taught 15 modules, 8 students
 - b. **2016, summer:** course coordinator, taught 15 modules, 8 students
 - c. **2017, summer:** course coordinator, taught 15 modules, 6 students
 - d. **2018, summer:** course coordinator, taught 15 modules,
4. **Epidemiology of Vector-borne, Bacterial, and Viral Zoonotic Diseases (CMVM 507):** 3-credit online elective course for DVM, MPH, and other graduate students, including Comparative & Experimental Medicine; class typically has 5–10 students and is offered every other summer
 - a. **2009:** taught 6 online modules, including tick-borne diseases, bartonellosis & psittacosis
 - b. **2011:** course coordinator, taught 7 online modules, including tick borne diseases, bartonellosis & psittacosis

- c. **2013:** course coordinator, taught 13 online modules including tick-borne diseases, mosquito-borne diseases, animal bites, rabies, & psittacosis
 - d. **2015:** course coordinator, taught 18 online modules including tick-borne diseases, mosquito-borne diseases, animal bites, rabies, & psittacosis
 - e. **2017:** course coordinator, taught 16 online modules including tick-borne diseases, mosquito-borne diseases, animal bites, rabies
5. **Epidemiology of Parasitic, Food-borne, and Bacterial Zoonotic Diseases (CMVM 508):** 3-credit online elective course for DVM, MPH and other graduate students; class typically has 3–15 students and is offered every other summer
- a. **2010:** taught 2 online modules including salmonellosis & leptospirosis
 - b. **2012:** course coordinator and scheduled to teach 3 online modules; course cancelled because of low enrollment
 - c. **2014:** course coordinator; taught 5 online modules including salmonellosis, campylobacteriosis, colibacillosis, leptospirosis, and Q fever
 - d. **2016:** course co-coordinator, taught 6 online modules including epidemiology, salmonellosis, campylobacteriosis, colibacillosis, leptospirosis, and Q fever
 - e. **2018:** taught 5 online modules including salmonellosis, campylobacteriosis, colibacillosis, leptospirosis, and Q fever
6. **Wildlife Conservation: Medicine & Policy (CEM 531);** 2 credit online/study abroad course for DVM, graduate and upper level undergraduate students
- a. **2016, December:** coordinator and traveled to Belize with 11 students
7. **Human Animal Bond journal club (CEM 501);** 1 credit journal club for MPH & CEM students
- a. **2013, fall:** coordinated approximately ½ of class; 4 students
 - b. **2014, spring:** course coordinator; 4 students
 - c. **2015, fall:** course co-coordinator; 8 students
 - d. **2016, fall:** course co-coordinator; 5 students
8. **Independent Study (VMD 829);** led a 2-week, 2-credit independent study in conjunction with CAIT (Companion Animal Initiative in TN) for two 3rd year DVM students in Uganda; students were exposed to and participated in dog/cat spay-neuter-vaccination clinics, wildlife medicine practices, and livestock practices in the northern parts of the country. We also visited with faculty and administrators at the veterinary college of Makerere University in Kampala.
9. **Infectious Diseases (VMD 864):** 3-credit required course for 2nd/3rd-year veterinary students
- a. **2009–present, spring:** taught four 1-hour lectures on emerging, avian, exotic and poultry infectious diseases
10. **Health and Wellness (VMD various):** 1 credit course for 1st – 3rd year vet students to teach stress coping, healthy eating and other life skills to improve success
- a. **2015, fall:** Organized and led a 2 hour “healthy eating” lab, 85 students
 - b. **2016, spring:** Led a 3 hour “lab” on Wildlife Conservation & Policy, 24 students
 - c. **2016, fall:** Organized and led a 2 hour “healthy eating” lab, 85 students
 - d. **2017, fall:** Led a 1 hour lecture/discussion on ethics of exotic pet ownership, with Dr. Ed Ramsay

11. **ABLE Cases:** Required case-based learning experience for 1st through 3rd year DVM students
 - a. **Fall 2008:** instructor for seven 2nd-year students, approximately 20 hours of contact time; “Diabetic ketoacidosis and pancreatitis in a Schnauzer”
 - b. **Fall 2009:** instructor for eight 2nd-year students, approximately 20 hours of contact time, “Heartworm disease in an Alaskan Malamute
 - c. **Fall 2010:** instructor for eight 3rd-year students, approximately 20 hours of contact time, “Malignant catharral fever in a herd of bison”
 - d. **Spring 2011:** instructor for seven 1st-year students, approximately 20 hours of contact time, “Medical and surgical management of colic in a horse”
 - e. **Spring 2012:** instructor for seven 2nd-year students, approximately 20 hours of contact time, “Aspergillosis in an Amazon parrot”
 - f. **Fall 2012:** instructor for seven 2nd-year students, approximately 20 hours of contact time, “Diabetic ketoacidosis and pancreatitis in a Schnauzer”
 - g. **Fall 2013:** instructor for eight 1st-year students, approximately 20 hours of contact time, “Post-hit-by-car treatment of a boxer”
 - h. **Fall 2014:** instructor for seven 2nd-year students, approximately 20 hours of contact time, “Hyperadrenocorticism in a ferret”
 - i. **Spring 2015:** instructor for seven 1st-year students, approximately 20 hours of contact time, “Colic in an Arabian mare”
 - j. **Fall 2015:** instructor for seven 2nd-year students, approximately 20 hours of contact time, “Aspergillosis in an Amazon parrot”
 - k. **Fall 2016:** instructor for seven 2nd-year students, approximately 20 hours of contact time, “Aspergillosis in an Amazon parrot”
 - l. **Fall 2017:** instructor for seven 3rd year students, approximately 10 hours of contact time (mini-ABLE), “PSSM in a horse”
 - m. **Spring 2018:** instructor for eight 1st years students, approximately 20 hours of contact time, “BVD in a herd of Angus cattle”
12. **Responsible Pet Ownership:** 1-credit elective for DVM and MPH students
 - a. **2011–2017, spring:** Taught one 1-hour lecture on ownership of exotic pets
13. **Multi-species Medicine (VMD 846):** 3-credit required course for 3rd-year veterinary students
 - a. **2008 – 2010, fall:** taught four 1-hour lectures on avian and small mammal diseases, co-instructor for two 4-hour laboratory sessions
 - b. **2011 – 2015, fall:** taught three to four 1-hour lectures
14. **One Health (CMVM 501 special topics):** 1-credit elective seminar for DVM and graduate students; class had 6 students
 - a. **2011, fall:** course coordinator and lecturer
15. **Environmental Toxicology:** 1-credit elective course for DVM and MPH students
 - a. **2011, spring:** taught one 1-hour lecture on the 2008 Kingston coal fly ash spill and its environmental impact
16. **Emergency Critical Care:** 1-credit elective for DVM students
 - a. **2008, spring:** taught one 1-hour lecture covering emergency care in exotic pet species
17. **One Health, Freshman Year Seminar (FYS 129):** seminar course for undergraduate freshmen

- a. **2013, fall:** course coordinator and lecturer: course included discussions, field trips and a service learning project
18. **Ecology and Management of Wildlife Health (WFS 301):** 3-credit course for undergraduate wildlife biology students
 - a. **2009, fall:** one 1-hour lecture on *Baylisascaris procyonis* in raccoons in east TN
 - b. **2012- present, spring:** one 1-hour lecture on the role of wildlife in public health
19. **Freshman Year Seminar** –“So you want to be a veterinarian?” – seminar course for undergraduate freshman
 - a. **2010, 2011, 2013, 2014:** two 1-hour lectures on population medicine, public health and wildlife/zoological medicine
 - b. **2015, 2016, 2017:** one 1-hour lecture on population medicine, public health
20. **Current Topics in Wildlife Health (WFS 101):** 1-credit course for undergraduate freshman in wildlife biology
 - a. **2010, fall:** one 1-hour lecture on avian influenza
21. **Public Health Seminar (PH 509): 1 credit course for MPH students**
 - a. **2009, spring:** one 1-hour lecture on *Baylisascaris procyonis* in east TN
 - b. **2013, spring:** one 1- hour lecture on the Kingston Coal Ash Spill and the effects on raccoons
22. **Introduction to Global Health: 3 credit graduate course at Vanderbilt University (Vanderbilt Institute for Global Health)**
 - a. **2014, spring:** one 1-hour lecture on One Health
23. **Environmental Health: 3 credit graduate course at Vanderbilt University (Vanderbilt Institute for Global Health)**
 - a. **2015, spring:** one 3-hour lecture/discussion on One Health

TEACHING PROVIDED for PROFESSIONAL CONTINUING EDUCATION:

1. **Annual Conference for Association of Avian Veterinarians**
 - a. **August 2005 (Monterey, CA):** co-instructor for two 4-hour laboratories on anesthesia techniques and monitoring in birds
 - b. **August 2006 (San Antonio, TX):** co-instructor for four 2-hour laboratories on anesthesia techniques and monitoring in birds
2. **Annual Conference of Tennessee Registered Veterinary Technician Association**
 - **October 2006 (Gatlinburg, TN):** instructor for one 2 hour laboratory on clinical techniques in birds for veterinary technicians
3. **Annual Conference for Association of Avian Veterinarians** (2008 Savannah, GA; 2009 Milwaukee, WI; 2010 San Diego, CA)
 - **2008–2010, August:** co-instructor for two 1-hour lectures and two 3-hour laboratories on diagnostic and therapeutic techniques used in avian clinical medicine for veterinarians and technicians
4. **European Association of Avian Veterinarians Conference** (Antwerp, Belgium): co-instructor for two 2-hour labs on avian anesthesia, March 2009
5. **Wild and Pet Bird Medicine Workshop:** Madras Veterinary College, Tamil Nadu Agriculture and Veterinary Sciences University, Chennai, India; this program was sponsored by the Fulbright Specialist program

- **January 28 – February 12 2013:** primary instructor for a 2-week course for 25 practicing veterinarians in India; the workshop included a combination of lectures, discussion, field trips, and laboratories on numerous topics related to avian medicine
6. **Exotic Companion Mammal Symposium:** Keynote speaker on Gastrointestinal Problems of Exotic Companion Mammals, Respiratory Problems of Exotic Companion Mammals, Ferrets: A to Z, Anesthesia & Analgesia, and Zoonoses; sponsored by Oxbow Animal Health
 - **February 9, 2014:** symposium held at Tufts University College of Veterinary Medicine, North Grafton, MA; 5 CEUs provided
 - **April 13, 2014:** symposium held at Memphis Veterinary Specialists, Codova, TN; 5 CEUs provided
 - **November 16, 2014:** symposium held at Adobe Animal Hospital, San Jose, CA; 5 CEUs provided
 7. **Southeast Veterinary Conference, sponsored by the South Carolina Association of Veterinarians:** Invited speaker for 3 hours of continuing education on backyard poultry medicine, zoonoses, and biosecurity. Myrtle Beach, SC, June 23, 2014.
 8. **American Board of Veterinary Practitioners Symposium:** Invited speaker for 5 hours of continuing education on emerging infectious diseases, zoonoses of exotic pets, biosecurity of the backyard flock, avian analgesia, and appropriate drug dosing in exotic species. Nashville, TN, October 31- November 1, 2014.
 9. **Mississippi Veterinary Medical Association Annual Conference:** Invited speaker for 4 hours of continuing education on backyard poultry medicine, zoonoses, and biosecurity. Perdido Beach, AL, July 17-19, 2015.
 10. **Wild and Pet Bird Medicine:** Andres Bello University, Santiago, Chile; this program was sponsored by the Fulbright Specialist program
 - **January 12-15, 2016:** primary instructor for a 4-day course for students and practicing veterinarians in Chile; the workshop included a combination of lectures, discussion, field trips, and laboratories on numerous topics related to avian medicine
 11. **One Health and Conservation Medicine:** Andres Bello University, Santiago, Chile; this program was sponsored by the Fulbright Specialist program
 - **January 18, 2016:** instructor for a 1-day course for students and faculty in Chile; the workshop included a combination of lectures,
 12. **Central Veterinary Conference:** Invited speaker to provide 8 hours of continuing education on exotic companion mammal medicine and backyard poultry. Virginia Beach, VA, May 12-13, 2016.
 13. **North American Veterinary Conference:** Invited speaker to provide 5 hours of continuing education on avian and wildlife medicine. Orlando, FL, February 4-8, 2017.
 14. **Advanced Isolation & Quarantine Procedures:** Invited co-teacher for a workshop for Pakistani Health Professionals in Bangkok, Thailand, May 22-25, 2017.
 15. **Isolation & Quarantine Procedures for a Biological Disease Outbreak:** Invited co-teacher for a workshop for Pakistani Health Professionals in Bangkok, Thailand, Jan 8-11, 2018.
 16. **Rabies Update:** Recorded online 25-minute video lecture for use by TWRA to train wildlife rehabilitators, uploaded Feb 1, 2018;
https://www.youtube.com/edit?video_id=bjiFmvhyZjg

17. **One Health Training Workshop:** Invited co-teacher for a workshop for Pakistani veterinary professionals; revised two modules and created two modules; Bali, Indonesia, July 23-26, 2018.

TEACHING and SERVICE PROVIDED IN THE VETERINARY TEACHING HOSPITAL

1. **Primary clinician for the Avian & Zoological Medicine Service:** University of Tennessee College of Veterinary Medicine
 - a. **2008-2012:** Provided 10 weeks of clinical duty for service annually, approximately ½ for hospital based exotic pet and wildlife service and ½ for zoological medicine service which included 8-9 weeks of instruction of students and 1-2 weeks that did not include student instruction and was strictly service
 - b. **2013:** Provided 4 weeks of clinical duty for service annually predominately with the zoological medicine service which includes 3 weeks of instruction of students and 1 week without students and is strictly service
 - c. **2014:** Provided 2 weeks of clinical service; one week was completed in the pet exotic service and one week was completed with the zoological medicine service.
 - d. **2015:** Provided 2 weeks of clinical service back up for the pet exotic service

COMMITTEES AND OFFICES HELD:

Departmental, College and Institutional Committees:

1. Point of Care Task Force, Hospital Operations, Member 3/09 – 6/09, (college)
2. Pawsitive Impact Student Club, Faculty Advisor, 2/09 – present, (college)
3. Wildlife Disease Association student chapter, Faculty Co-advisor, 9/10 – 9/16
4. Green Committee, member, 7/11 – present, (college)
5. Master of Public Health Degree 40th Anniversary Committee, Department of Public Health, Member, 7/11 – 10/11, (university)
6. Comparative and Experimental Medicine and Public Health Research Symposium Presentation Judge, UT, May 2012, May 2013, May 2015, May 2016 (institute)
7. Human Animal Bond in Tennessee (HABIT), Board member, 7/12 – present
8. One Health (previously Population & Preventive Medicine) Club, Faculty Co-advisor, 9/12 – present, (college)
9. Human Animal Bond in Tennessee (HABIT), Director, October 2013 – present
10. Veterinary Public Health Faculty Search Committee Chair, November 2013 – May 2014
11. Masters of Public Health Academic Program Committee, Veterinary Public Health Concentration Faculty Representative, September 2013- present
12. Peer Teaching Review Committee for Dr. Shelley Newman, 1/14-6/15
13. Peer Teaching Review Committee for Dr. Richard Gerhold, May 2014 – present
14. Sustainability Working Group Curriculum Committee, UT, May 2014 – 2015
15. Peer Teaching Review Committee for Dr. Jiangang Chen (Dept of Public Health), Sept 2014 – Dec 2014
16. Curriculum Innovation Task Force, UTCVM, 6/15 – 7/15
17. Educational Enhancement Committee, UTCVM, 7/15 - 7/17
18. Chair of Peer Teaching Review Committee for Dr. Agricola Odoi, Sept 2015 – May 2016
19. International Programs Post-doc Program Manager Search Committee Member (UTIA), 10/15-12/15
20. SACS Internal Medicine RIVER faculty search committee member, October 2015 – Spetember 2016

21. Cynthia B. Peterson Poster Competition, UT, Judge, March 4, 2016.
22. FEAR Fund Review Committee, March 2016 - present.
23. UTIA International Advisory Committee, March 2016 – present
24. Faculty mentor for Dr. Adam Willcox, Dept of Forestry, Wildlife & Fisheries, UTIA, April 2016 – present
25. SACS Shelter Medicine faculty search committee member, October 2016 – April 2017
26. Peer Teaching Review Committee for Dr. Chika Okafor, 1/17 – 12/17
27. University Faculty Senate, member, August 2017- August 2020.
 - a. Diversity and Inclusion Committee member, August 2017 –
28. Peer Teaching Review for Dr. Sharon Thompson (solo reviewer), January 2018.
29. Peer Teaching Review Committee for Dr. John Schaeffer, January 2017- May 2017
30. BDS Department Strategic Planning Committee, January 2017 -
31. PhD Exam Referee for John Ekakoro, March 2018- current

Committees and Offices Held in External Organizations:

1. Knoxville Animal Control Board, Member, 9/08 – present
2. Knox County Rabies Task Force, Alternate member, 9/08 – 9/10
3. State of Tennessee Emergency Disease Management Committee for Poultry, Member, 7/10 – present
4. American College of Veterinary Preventive Medicine,
 - a. Re-certification Guideline Committee, Member, 10/11 – 3/12
 - b. Credentials Committee, 7/12 – present; Chair July 2016-July 2017
 - c. Membership and Outreach Committee, 11/13 - present
5. Wildlife Disease Association, Annual Conference Planning Committee, 5/12 – 10/13
 - a. One Health Session Scientific Advisor and Moderator for 2013 conference
 - b. Social Event and Field Trip Planner
6. Association of Avian Veterinarians
 - a. At-Large Advisory Council Member, 8/12 – 8/15
 - b. Foundations in Avian Medicine, Session Moderator at 2013 conference
 - c. Associate editor for *Journal of Avian Medicine and Surgery*, 8/13 – 8/15
 - d. Officer Nominating Committee, 3/16 – 5/16
7. Association of American Veterinary Medical Colleges, One Health Committee Member, 12/12 – present
8. American Veterinary Medical Association Animal Welfare Committee, Alternate Representative from the Association of Avian Veterinarians, 7/15-7/17.
9. Promotion and Tenure External Reviewer for Dr. James Oloya, University of Georgia, Department of Epidemiology and Biostatistics, Summer 2015
10. Promotion and Tenure External Reviewer for Dr. Patrick Pithua, University of Missouri, College of Veterinary Medicine, Summer 2015
11. Promotion and Tenure External Reviewer for Dr. Greg Habing, Ohio State University College of Veterinary Medicine, Summer 2017
12. Committee on Environmental Issues, American Veterinary Medical Association, member, July 2017- current
 - a. Vice-chair, July 2018 - present

EDITORIAL/REVIEW APPOINTMENTS AND ASSIGNMENTS:

1. *American Journal of Veterinary Research*, peer reviewer, 2008, 2011, 2015
2. *Veterinary Radiology & Ultrasound*, peer reviewer, 2009
3. *Journal of the American Veterinary Medical Association*, peer reviewer, 2009, 2011, 2012, 2014, 2015, 2016, 2018
4. *Journal of the American Association for Laboratory Animal Science*, peer reviewer, 2010
5. *Veterinary Clinics of North America – Exotic Animal Practice*; edition titled, “Zoonoses, Public Health and the Exotic Animal Practitioner”, guest editor, published September 2011
6. *Journal of Zoo and Wildlife Medicine*, peer reviewer, 2011, 2012, 2014

7. *Epidemiology – Current Research*, peer reviewer, 2011
8. *Journal of Avian Medicine and Surgery*, peer reviewer, 2012, 2013, 2017; Associate Editor 8/2013 – 8/2015
9. *Zoonoses and Public Health*, peer reviewer, 2012, 2013, 2015, 2016
10. *PLoS ONE*, peer reviewer, 2012, 2014, 2015, 2018
11. *Diseases of Aquatic Organisms*, peer reviewer, 2012
12. *Journal of Herpetology*, peer reviewer, 2012
13. *Journal of Exotic Pet Medicine*, peer reviewer, 2012
14. *BMC Public Health*, peer reviewer, 2013
15. *Archives of Environmental Toxicology & Contamination*, peer reviewer, 2013
16. *International Journal of Zoology*, peer reviewer, 2013
17. *Journal of Wildlife Diseases*, peer reviewer, 2014
18. Tennessee Department of Health Rabies Control Manual, reviewer, 2015, 2017
19. *Ecological Indicators*, peer reviewer, 2016
20. *Animal Health Research Reviews*, peer reviewer, 2016
21. *Vector Borne and Zoonotic Diseases*, peer reviewer, 2017, 2018

GRADUATE STUDENTS and other MENTORING:

Masters of Public Health with Veterinary Public Health Concentration Graduate Students

1. *Research Essay Option*: These professional students complete 42 hours for the MPH and complete a research project (6 credits) at the end of the degree; these research projects are typically less extensive than those required for thesis MS but do require a 3-person committee and a defense.
 - a. William Hill; Master of Public Health, Research essay titled, “A Survey of Tennessee Veterinarian and Physician Attitudes, Knowledge, and Practices in Zoonoses Prevention among Companion Animal Owners Infected with HIV/AIDS”, completed December 2010. **Major Professor (manuscript published, #30 below)**
 - b. Sharon Thompson; Master of Public Health, Research essay titled, “Effectiveness of a Risk Assessment Methodology in Supporting Agriculture and Food Defense”, completed December 2010. **Committee Member**
2. *Field Practice Option*: These students complete 42 hours for the MPH including a 6-credit (360 hour) practical internship with a public health organization. Initiation and organization of internship is facilitated by faculty advisor. **Major faculty advisor for all students listed below.**
 - Morgan Mander, completed December 2010
 - Erin Haverly, completed August 2011
 - Leslie Sadeghi, completed August 2011
 - Hillary Hammond, completed May 2012
 - Peggy Hsu, completed August 2012
 - Danielle Yugo, completed August 2012
 - Kristina Cooney, completed May 2013
 - Glenis Moore, completed August 2013
 - Sarah Willard-Eroh, completed December 2013
 - Ashley Schenck, completed May 2014
 - Andrea Cote, completed December 2014
 - Raelyn Pirtle, completed December 2014
 - Cara Clouse, Fall 2012 – Summer 2013, did not complete degree
 - Jose Grenet, completed May 2015
 - Jessica Miner, completed May 2015
 - John Crawford, completed May 2015
 - Todd French, completed May 2015
 - Kari Olson, completed May 2015

- BreeAnna Dell, completed August 2015
- Julia Connor, completed December 2015
- Benton Harvey, completed December 2015
- Jennifer Storer, completed December 2015
- Lauren Henderson, completed May 2016
- Kelly Rowe-Estes, completed May 2016
- Dayton Schleicher, completed May 2017
- Amy Webb, completed May 2017
- Alicia Robbins, completed May 2017
- Taylor Opel, completed May 2017
- Caroline Benham, Spring 2016 – present
- Martha Cook, Spring 2016 – present
- Erin Holt, Spring 2016 – present
- Kristin Stroebel, Spring 2016- present
- Taylor Young, Spring 2016 –present
- Tim Chamberlain, Spring 2017 – present
- Nancy Conkey, Spring 2017 – present

Secondary MPH Advisor for:

- Simone Godwin, Spring 2017 - present

Graduate Students completing degrees other than MPH:

1. Jessica Harmon; Master of Science in Entomology, Thesis titled, “Management of Ticks and Tick-borne Disease in a Tennessee Retirement Community”, completed December 2010.
Committee member
2. Amanda Janicki; Master of Science in Ecology & Evolutionary Biology, “Population Dynamics of White Nose Syndrome in North American Bats”, completed December 2015.
Committee member
3. **Amal Humidat:** Master of Science, “Evaluation of Online Programs offered by CASFP”, completed June 2017, **Committee member**
4. Kate Purple: Doctorate of Philosophy in Comparative and Experimental Medicine, “Environmental Persistence of *Trichomonas gallinae*”, June 2013 – present. **Committee member**
5. Corrine Tandy: Doctorate of Philosophy in Comparative and Experimental Medicine, “Epidemiology of Vaccine Preventable Diseases in TN”, September 2014 – present, **Committee member**
6. Sawsan Ammar: Doctorate of Philosophy in Comparative and Experimental Medicine, “Molecular Epidemiology of *Toxoplasma* in Avian Species”, April 2016 – present, **Committee member**
7. **BreeAnna Dell:** Doctorate of Philosophy in Comparative and Experimental Medicine, “Bushmeat Roullette”, May 2017 – present, **Major Advisor**

Center of Excellence in Livestock Diseases and Human Health Summer Students or other DVM students

1. Bridgid Lammers; Project titled: Prevalence of *Salmonella* in hellbenders in eastern TN, summer 2010; *manuscript published, #29 below.*
2. Lee Emery; Project titled: Pharmacokinetics of terbinafine in Hispaniolan Amazon parrots, summer 2011; *manuscript published, #35 below.*
3. Georgia Parsons; Project titled: Sedative effects of dexmedetomidine and midazolam in two species of tortoise, summer 2011; *manuscript published, #44 below.*

4. Ashley Schenk; Project titled: Causes of morbidity and mortality of wildlife presented to the UTCVM Avian & Zoological Medicine Service, **manuscript published, #43 below.**
5. Kienan Gold; Project titled: Susceptibility of the chytrid fungus to various antifungals and disinfectants, summer 2012 (co-advised with other faculty), **manuscript published, #41 below.**
6. Rachel Dutkosky; Project titled: Clinical evaluation of a terbinafine subcutaneous implant for the prevention and treatment of white nose syndrome in little brown bats, summer 2012 (funded by Bernice Barbour Foundation); **presented poster at 2012 ACVP conference.**
7. Lauren Henderson; Project titled: *Toxoplasma* in wildlife in eastern TN, summer 2013 (secondary advisor to Dr. Richard Gerhold).
8. Jose Grenet; Project titled: Epidemiology of red panda neonatal mortality, summer 2013 (secondary advisor to Dr. Ed Ramsay).
9. Bernadette Riemer; Project titles: Prevalence and partitioning of *Salmonella* in wildlife, summer 2014 (co-advised with Dr. Ben Fitzpatrick of EEB department)
10. Leah Shannon; Project titled: Pharmacokinetics and egg residues of Clavamox in domestic chickens, summer 2017.

Undergraduate Students:

1. Stephen Nelson; Project titled: Detection of ranavirus in northern watersnakes; project funded by the TN Herpetological Society; aided in grant writing and IACUC submission; 5/11 – 6/13.

Other Mentoring:

1. Dr. Jennifer Boonstra; advised and sponsored for ACVPM board certification, 2011; passed exam 2013.
2. Dr. Kemba Marshall; advised and sponsored for ACVPM board certification, approved to take exam in 2018.
3. Dr. Bonnie Price; advised and sponsored for ACVPM board certification, approved to take exam in 2018.

CONSULTATIONS AND SPECIAL PROJECTS:

1. Radio Systems Corporations (PetSafe), Research Review Panel Member, review of proposals for research funding from RSC, 2011-2012.

RESEARCH AND OTHER EXTERNAL SUPPORT (principal investigator):

1. **MJ Souza**, CB Greenacre, SK Cox. Pharmacokinetics of tramadol in rabbits, American Rabbit Breeders Association, \$5,000, 11/05 – 1/06.
2. **MJ Souza**, T Martin-Jimenez, MP Jones, SK Cox. Pharmacokinetics of tramadol in red-tailed hawks, Middle TN Bird Club, \$2,000, 8/06 – 10/06.
3. **MJ Souza**, T Martin-Jimenez, MP Jones, SK Cox. Pharmacokinetics of tramadol in bald eagles, UT Companion Animal Fund, \$5,040, 11/06 – 1/07.
4. **MJ Souza**, JS Wall, GB Daniel. Static and dynamic PET scans of the Hispaniolan Amazon parrot, in conjunction with the UT Medical Center Preclinical Imaging Laboratory, costs covered by the UT Medical Center, 12/06 – 2/07.
5. **MJ Souza**, EC Ramsay, S Patton, JC New. Prevalence of *Baylisascaris procyonis* in raccoons (*Procyon lotor*) in East TN, 7/07 – 12/07.
6. **MJ Souza**, D Guzman, J Paul-Murphy, SK Cox. Pharmacokinetics and pharmacodynamics of tramadol in Hispaniolan Amazon parrots, funded by Morris Animal Foundation, **\$50,536**, 4/09 – 12/10.
7. **MJ Souza**, EC Ramsay, B Donnell. Terrestrial mammal health and bioaccumulation studies for evaluating fly ash exposure and effects, funded by Tennessee Valley Authority, **\$32,850**, 8/09 – 8/11
8. **MJ Souza**, P Colclough. Prevalence of chytrid fungus in hellbenders in east TN, funded through faculty start up funds, 2009 – 2010.

9. **MJ Souza**, EC Ramsay. Terrestrial mammal health and bioaccumulation studies for evaluating fly ash exposure and effects – 5 year extension, funded by Tennessee Valley Authority, **\$86,001**, 8/11 – 6/13, projected was terminated early by TVA due to budget constraints.
10. **MJ Souza**, S Cox, K Newkirk. Evaluation of a terbinafine impregnated subcutaneous implant for the treatment of bats infected with *Geomyces destructans*, funded by National Speleological Society, **\$11,214**, 9/11 – 1/13.
11. **MJ Souza**, S Cox, K Newkirk. Evaluation of a terbinafine impregnated subcutaneous implant for the treatment of bats infected with *Geomyces destructans*, funded by Bernice Barbour Foundation, **\$25,000**, 11/11 – 12/13.
12. BM Fitzpatrick, **MJ Souza** (Co-PIs). Prevalence and partitioning of *Salmonella* among wildlife, funded by the UTIA Center for Wildlife Health, **\$10,000**, 12/13 – 12/14.
13. GF McCracken, **MJ Souza** (Co-PIs), A Janicki. Etiology of wing damage on endangered gray bats (*Myotis grisescens*), funded by UTIA Center for Wildlife Health, **\$5,000**, 12/13 – 12/14.
14. **MJ Souza**, S Cox. Investigation of an anti-fungal impregnated implant, funded by the Association of Avian Veterinarians, **\$10,000**, 8/14 – 12/15.
15. **MJ Souza**, S Cox. Meloxicam use in domestic poultry, funded by FEAR fund, **\$5484**, 5/14-5/16.
16. AS Wilcox, **MJ Souza**, R Gerhold, C Okafor. Bushmeat Roulett: Species uncertainty and disease risk from foodborne pathogens in Uganda, funded by UTIA Center for International Sustainable Agriculture, **\$7963**, 5/16-5/17.
17. AS Wilcox, **MJ Souza**, R Gerhold, C Okafor. Species uncertainty and disease risk from 11 foodborne pathogens in Uganda, funded by the Center for Wildlife Health Organized Research Unit, **\$15,000**, 6/16-6/17.
18. SC Cox, **MJ Souza**. Amoxicillin/Clavulanic acid HPLC Assay Development, FEAR fund, **\$5000**, Jan 1, 2017 – Dec 31, 2017. (co-PI)
19. **MJ Souza**, S Cox. Pharmacokinetics and egg residues of clavamox in domestic chickens, Association of Avian Veterinarians, **\$10,000**, Oct 2017 – Oct 2018.
20. **MJ Souza**, B Dell, R Gerhold, C Okafor, A Willcox. Bushmeat Roulette, FEAR Fund, **\$5000**, 1/18 – 12/18.
21. **MJ Souza**, BDell. Species uncertainty and disease risk at the human-wildlife interface in Murchison Falls National Park, Uganda. UT Graduate School Student/Faculty Research Award, **\$4966**, 12/17-5/18.
22. **MJ Souza**, Z Ng, J Albright. Expansion of HABIT into Middle TN, State of TN Office of Criminal Justice Programs, **\$381,500**, 1/18-7/20.
23. **MJ Souza**, I Lane, M Bailey. Master Teacher Program Workshop for Faculty Members of East African Colleges of Veterinary Medicine, funded by UTIA Center for International Sustainable Agriculture, **\$8000**, 5/18-12/19.
24. **MJ Souza**, S Cox. Ivermectin Assay Development for Use in Domestic Chickens, FEAR Fund, **\$5000**, 6/18-6/19.

RESEARCH AND OTHER EXTERNAL SUPPORT (co-principal investigator):

1. CB Greenacre, **MJ Souza**, SK Cox. Pharmacodynamics of tramadol in rabbits, funded by American Rabbit Breeders Association, \$5,000, 11/05 – 1/06. (*Aided in data collection*).

RESEARCH AND OTHER EXTERNAL SUPPORT (co-investigator):

1. CM Egger, **MJ Souza**, CB Greenacre, S Cox, B Rohrbach. Isoflurane sparing effects of intravenous tramadol in the domestic rabbit, American Rabbit Breeders Association, **\$5,000**, 11/05 – 1/06. (*Aided in data collection and manuscript review*).
2. PT Redig, J Ponder, SK Cox, **MJ Souza** (Co-investigator). Evaluation of an implant vehicle for slow-release, long-term delivery of antifungal drugs in birds, a pilot study, funded by the Morris Animal Foundation, **\$10,000**, 6/14- 12/15.

3. ZY Ng, J Albright, **MJ Souza** (Co-Investigator). The effect of animal-assisted intervention on preoperative anxiety and dose of sedation in children, funded by the Human Animal Bond Research Initiative, **\$79,467**, 8/16-8/19

PUBLICATIONS (peer-reviewed papers and invited review articles):

1996

1. A Nespor, **MJ Lukaszewicz**, GH Ball and RJ Dooling. Testosterone induction of male-like vocalizations in female budgerigars (*Melopsittacus undulatus*). *Hormones and Behavior*. 30:162–169, 1996. (*This project was my undergraduate honors research thesis.*)

2001

2. D Mann, D Higgs, W Tavalga, **M Souza** and AN Popper. Ultrasound detection by Clupeiform fishes, *Journal of the Acoustical Society of America*. 109(6):3048 – 3054, 2001. (*Research assistant in laboratory where study was conducted.*)
3. DM Higgs, **MJ Souza**, HR Wilkins, JC Presson and AN Popper. Age related changes in the zebrafish saccule, *Journal of the Association of Researchers in Otolaryngology*. 3:174 – 184, 2001. (*Generated data and helped interpret results*)

2002

4. DM, Higgs, EF Brittan-Powell, D Soares, **MJ Souza**, CE Carr, RJ Dooling and AN Popper. Amphibious auditory responses of the American alligator (*Alligator mississippiensis*). *Journal of Comparative Physiology A*. 188: 217 – 223, 2002. (*Generated data and helped interpret results*)

2003

5. DM Higgs, AK Rollo, **MJ Souza** and AN Popper. Development of form and function in peripheral auditory structures of the zebrafish (*Danio rerio*). *Journal of the Acoustical Society of America*. 113(2):1145 – 1154, 2003. (*Generated data and helped interpret results*)

2004

6. **MJ Souza**, EL Fields, LA Degernes. Thoracic and pelvic limb fracture and luxation management in raptors. *Journal of Wildlife Rehabilitation*. 27(3-4): 5 – 13, 2004.

2005

7. **MJ Souza**, KE Hall, JD Wilson, GA Lewbart. Surgical removal of an artificial chicken egg from the gastrointestinal tract of a black rat snake, *Elaphe obsoleta*. *Journal of Herpetological Medicine and Surgery*. 14(4): 4 – 5, 2005.
8. **MJ Souza**, LA Degernes. Prevalence of aspergillosis and distribution of lesions in wild swans in northwest Washington state, 2000 – 2002. *Journal of Avian Medicine and Surgery*. 19(2): 98 – 106, 2005.

2006

9. **MJ Souza**, GH Wilson, P Carmichael. Multifocal sialoceles and sialoliths in a yellow nape Amazon parrot (*Amazona ochrocephala auroalliata*). *Journal of Avian Medicine & Surgery*. 20(20): 101 – 104, 2006.

10. **MJ Souza**, CB Greenacre, JS Avenell, JS Wall, GB Daniel. Diagnosing a tooth root abscess in a guinea pig using Micro-CT imaging. *Journal of Exotic Pet Medicine*. 15(4): 274 – 277, 2006.

2008

11. **MJ Souza**, CB Greenacre, S Cox. Pharmacokinetics of oral tramadol in the domestic rabbit, *American Journal of Veterinary Research*, 69(8):979 – 982, 2008.
12. **MJ Souza**, CB Greenacre, JS Avenell, J Phillips, M Fry, GB Daniel, S Newman. Intestinal T-cell lymphosarcoma in a yellow-naped Amazon parrot, *Journal of Veterinary Diagnostic Investigation*, 20(5): 656 – 660, 2008.
13. S McCain, **MJ Souza**, JP Schumacher, S Hecht, EC Ramsay, W Thomas. Surgical correction of occipital bone proliferation associated with hypovitaminosis A in a lion, *Journal of Zoo and Wildlife Medicine*, 39(3): 421 – 427, 2008. (**Primary clinician on case at time of diagnosis and surgical treatment.**)
14. CB Greenacre, B Flatland, **MJ Souza**, M Fry. Analysis of two plasma chemistry analyzers in Hispaniolan Amazon parrots, *Journal of Avian Medicine & Surgery*, 22(4): 291 – 299, 2008. (**Proposed, designed and conducted research.**)

2009

15. **MJ Souza**, N McLean, D Ward, K Newkirk. Conjunctival xanthoma in a blue and gold macaw, *Veterinary Ophthalmology*, 12(1):53 – 55, 2009.
16. CM Egger, **MJ Souza**, CB Greenacre, S Cox, B Rohrbach. Isoflurane sparing effects of intravenous tramadol in the domestic rabbit, *American Journal of Veterinary Research* 70(8): 945 – 949, 2009. (**Co-investigator that aided in sample collection.**)
17. **MJ Souza**. Bacterial and parasitic zoonoses of exotic pets, *Veterinary Clinics of North America – Exotic Animal Practice* 12: 401 – 415, 2009. (**Invited review article**)
18. EL Stieve-Caldwell, F Morandi, **M Souza**, WH Adams, What's your diagnosis? Otitis externa, media and interna in a Dutch rabbit, *Journal of the American Veterinary Medical Association* 235(6): 665 – 666, 2009. (**Primary clinician on case.**)
19. **MJ Souza**, EC Ramsay, S Patton, JC New. *Baylisascaris procyonis* in raccoons (*Procyon lotor*) in eastern Tennessee, *Journal of Wildlife Diseases* 45(4): 1231 – 1234, 2009.
20. **MJ Souza**, T Martin-Jimenez, MP Jones, SK Cox. Pharmacokinetics of oral and intravenous tramadol in bald eagles, *Journal of Avian Medicine & Surgery* 23(4): 247 – 252, 2009.

2010

21. J Yarbrough, C Greenacre, **M Souza**, S Cox. LC determination of tramadol, M1, M2, M4, and M5 in plasma, *Chromatographia* 71(5/6): 523 – 527, 2010. (**Co-investigator on research**)
22. E Evans, **MJ Souza**. Advanced diagnostic approaches and current management of internal disorders of select species (rodents, sugar gliders, hedgehogs), *Veterinary Clinics of North America – Exotic Animal Practice* 13:453 – 469, 2010. (**Mentoring author, invited review article**)
23. V Grunkemeyer, P Sura, M Baron, **MJ Souza**. Surgical repair of an inguinal herniation of the urinary bladder in an intact female domestic rabbit (*Oryctolagus cuniculus*), *Journal of*

Exotic Pet Medicine, 19(3):249 – 254, 2010. (**Primary clinician on case and mentoring author**)

2011

24. **MJ Souza**, T Martin-Jimenez, MP Jones, S Cox. Pharmacokinetics of oral tramadol in red tailed hawks, *Journal of Veterinary Pharmacology and Therapeutics*, 34:86 – 88, 2011.
25. **MJ Souza**, S Cox. Tramadol use in zoologic medicine, *Veterinary Clinics of North America – Exotic Animal Practice*, 14:117 – 130, 2011, (**invited review article**).
26. **MJ Souza**. Influenza, *Journal of Exotic Pet Medicine*, 20(1):4 – 8, 2011, (**invited review article**).
27. **MJ Souza**, JS Wall, A Stuckey, GB Daniel. Static and dynamic 18FDG-PET in normal Hispaniolan Amazon parrots, *Veterinary Radiology & Ultrasound*, 52(3):340 – 344, 2011.
28. **MJ Souza**. One Health: Zoonoses in the exotic animal practice. *Veterinary Clinics of North America – Exotic Animal Practice*, 14(3): 421 – 426, 2011, (**review article as editor of edition**).

2012

29. B Lammers, D Bemis, P Colclough, **M Souza**. Prevalence of *Salmonella sp.* isolated from *Cryptobranchus alleganiensis alleganiensis* in eastern Tennessee, *Southeastern Naturalist*, 11(1):59 – 64; 2012. (**Mentoring author**).
30. WA Hill, GC Petty, PC Erwin, **MJ Souza**. A survey of Tennessee veterinarian and physician attitudes, knowledge, and practices in zoonoses prevention among animal owners infected with HIV/AIDS. *Journal of the American Veterinary Medical Association*, 240(12):1432 – 1440; 2012. (**mentoring author**)
31. **MJ Souza**, MJ Gray, P Colclough, DL Miller. Prevalence of *Batrachochytrium dendrobatidis* and *Ranavirus* in eastern hellbenders (*Cryptobranchus alleganiensis alleganiensis*) in eastern Tennessee. *Journal of Wildlife Diseases*, 48(3): 560 – 566, 2012.
32. **MJ Souza**, T Cairns, J Yarbrough, S Cox. In vitro investigation of a terbinafine impregnated subcutaneous implant for veterinary use, *Journal of Drug Delivery*, Article ID 436710, 4 pages, 2012, doi:10.1155/2012/436710.
33. **MJ Souza**, D Guzman, J Paul-Murphy, SK Cox. Pharmacokinetics of a single dose of oral and intravenous tramadol hydrochloride in Hispaniolan Amazon parrots (*Amazona ventralis*), *American Journal of Veterinary Research*, 73: 1142 – 1147, 2012.
34. D Guzman, **MJ Souza**, JM Brown, S Cox, N Kuehler, J Paul-Murphy. Antinociceptive effects after oral administration of tramadol hydrochloride in Hispaniolan Amazon parrots (*Amazona ventralis*), *American Journal of Veterinary Research*, 73: 1148 – 1152, 2012. (**PI on extramural funding grant**)
35. L Emery, S Cox, **MJ Souza**. Pharmacokinetics of nebulized terbinafine HCl in Hispaniolan Amazon parrots, *Journal of Avian Medicine and Surgery*, 26(3): 161 – 166, 2012. (**mentoring author**)

2013

36. **MJ Souza**, EC Ramsay, R Donnell. Metal accumulation and health effects in raccoons (*Procyon lotor*) associated with coal fly ash exposure. *Archives of Environmental Contamination and Toxicology*, 64(4): 529 – 536, 2013. DOI 10.1007/s00244-012-9865-1.

37. S Geelen, DMS Guzman, **MJ Souza**, S Cox, N Keuhler, J Paul-Murphy. Evaluation of thermal antinociceptive effects after intravenous tramadol hydrochloride in Hispaniolan Amazon parrots (*Amazona ventralis*). *American Journal of Veterinary Research*, 74(2): 201 – 206, 2013. (*contributing author*)
38. E Evans, L Emery, SK Cox, **MJ Souza**. Pharmacokinetics of terbinafine after oral administration of a single dose in Hispaniolan Amazon parrots (*Amazona ventralis*). *American Journal of Veterinary Research*, 74(6): 835 – 838, 2013. (*mentoring author*)
39. DM DeLillo, **MJ Souza**, SA Jesty. Episodic syncope caused by ventricular flutter in a tiger (*Panthera tigris*). *Journal of Zoo and Wildlife Medicine*, 44(2): 500 – 504, 2013. (*clinician on case*)
40. **MJ Souza**, L Gerhardt, SK Cox. Pharmacokinetics of repeated oral dosing of tramadol HCl in Hispaniolan Amazon parrots (*Amazona ventralis*). *American Journal of Veterinary Research*, 74(7): 957-962, 2013.
41. K Gold, P Reed, D Bemis, D Miller, M Gray, **M Souza**. Efficacy of common disinfectants and terbinafine at inactivating the growth of *Batrachochytrium dendrobatidis* in culture. *Diseases of Aquatic Organisms*, 107: 77-81, 2013. (*mentoring author*)

2014

42. A Schenk, **MJ Souza**. Presenting complaint and outcome of wildlife presented to a wildlife clinic in east Tennessee, 2001 – 2011. *PLOS ONE*, 9.3: e93517, 2014. (*mentoring author*)
43. S Cox, J Hayes, M Hamill, A Martin, N Pistole, J Yarbrough, **M Souza**. Determining terbinafine using HPLC in plasma and saline. *Journal of Liquid Chromatography and Related Technologies*, DOI: 10.1080/10826076.2014.922479, 2014. (*contributing author*)
44. L Emery, G Parsons, L Gerhold, J Schumacher, **MJ Souza**. Sedative effects of midazolam and dexmedetomidine in two species of tortoises. *Journal of Exotic Pet Medicine*, 23; 380-383, 2014. (*mentoring author*)
45. K Baine, K Newkirk, K Fecteau, **MJ Souza**. Elevated testosterone and progesterin concentrations in a spayed female rabbit with an adrenal cortical adenoma. *Case Reports in Vet Med*, 2014, article ID 239410; <http://dx.doi.org/10.1155/2014/239410>. (*mentoring author*)

2015

46. C Meyer, T Schlekot, S Walls, J Iannuzzi, **M Souza**. Evaluating Risks to Wildlife from Coal Fly Ash Incorporating Recent Advances in Metals Risk Assessment. *Integrated Environmental Assessment and Management*, 11(1), 67-79, 2015. (*contributing author*)

2016

47. K Baine, D Hendrix, **M Souza**, M Jones. The efficacy and safety of topical rocuronium bromide to induce bilateral mydriasis in Hispaniolan Amazon parrots (*Amazona ventralis*). *Journal of Avian Medicine & Surgery*, 30(1):8-13, 2016. (*contributing author*)

2017

48. S Cox, J Bailey, M White, K Gordon, **MJ Souza**. Determination of meloxicam in egg whites and yolks using reverse phase chromatography, *J Chromatographic Science*, 55(6), 610-616, 2017. (*contributing author*)

49. LP Kane, MC Allender, G Archer, K Leister, M Rzadkowska, **M Souza**, S Cox. Pharmacokinetics of subcutaneously implanted and nebulized terbinafine in cottonmouths (*Agkistrodon piscivorus*), *J Vet Pharm Therap*, 40(5), 575-579, 2017. (**contributing author**)
50. **MJ Souza**, J Bailey, M White, K Gordon, L Gerhardt, S Cox. Pharmacokinetics and egg residues of meloxicam after a single oral dose in domestic chickens, *AJVR*, 78(8), 965-968, 2017.
51. **MJ Souza**, P Redig, S Cox. Pharmacokinetics of itraconazole, voriconazole, and terbinafine when delivered by an impregnated subcutaneous implant in Japanese quail (*Coturnix japonica*), *J of Avian Medicine & Surgery*, 31(2), 117-122, 2017.
52. R Gerhold, P Saraf, A Chapman, X Zou, G Hickling, W Stiver, A Houston, **M Souza**, C Su. *Toxoplasma gondii* seroprevalence and genotype in select wildlife species from the southeastern United States. *Parasites & Vectors*, 10, 508, 2017. DOI 10.1186/s13071-017-2456-2 (**contributing author**)

2018

53. **MJ Souza**, J Bailey, M White, K Gordon, L Gerhardt, S Cox. Pharmacokinetics and egg residues of meloxicam after multiple oral doses in domestic chickens, *JAMS*, 32(1): 8-12, 2018.

In review or preparation

54. T Young-Gaston, **MJ Souza**. Increasing access to veterinary care as a means to improving the health of all. *Access to Veterinary Care Coalition Final Report*, in review. (**mentoring author**)
55. Z Ng, J Albright, A Viera, **MJ Souza**. Describing the use of animals in animal-assisted intervention research. *J of Applied Animal Welfare Science*, in review.
56. **MJ Souza**, W Opira. Initial survey of vector borne pathogens of dogs in Northern Uganda, *Journal of the South African Veterinary Association*, in review.
57. L Shannon, SK Cox, J Bailey, C Fortner, R Davis, L Gerhardt, **MJ Souza**. Pharmacokinetics and drug residue in eggs following multiple day oral dosing of amoxicillin-clavulanic acid in domestic chickens (*Gallus domesticus*), in prep. (**mentoring author**)

OTHER PUBLICATIONS:

Book Chapters and Books:

1. **Souza M**, Schumacher J, Hecht S. Vögel [Birds]. In: Röntgendiagnostik in der Kleintierpraxis [Diagnostic Radiology in Small Animal Practice]. Hecht S, Hrsg. [Ed.]. Stuttgart: Schattauer 2008; pp. 381 – 400.
2. Schumacher J, **Souza M**. Reptilien und Amphibien [Reptiles and Amphibians]. In: Röntgendiagnostik in der Kleintierpraxis [Diagnostic Radiology in Small Animal Practice]. Hecht S, Hrsg. [Ed.]. Stuttgart: Schattauer 2008; pp. 423 – 438. (**Co-author of chapter**)
3. **Souza MJ**, New JC. Zoonoses and the domestic cat. In: *The Cat: Clinical Medicine and Management*, St. Louis: Saunders 2011, 1090 – 1096.
4. **Souza M**, Schumacher J, Hecht S. Vögel [Birds]. In: Röntgendiagnostik in der Kleintierpraxis [Diagnostic Radiology in Small Animal Practice, 2nd edition]. Hecht S, Hrsg. [Ed.]. Stuttgart: Schattauer 2012; pp. 397 – 416.

5. Grumpenberger M, Schumacher J, **Souza M**. Reptilien [Reptiles]. In: Röntgendiagnostik in der Kleintierpraxis [Diagnostic Radiology in Small Animal Practice, 2nd edition]. Hecht S, Hrsg. [Ed.]. Stuttgart: Schattauer 2012; pp. 439 – 464. (*Co-author of chapter*)
6. Morishita TY, Greenacre CB, **Souza MJ**. Biosecurity and Zoonotic Diseases. In: Backyard Poultry Medicine and Surgery A guide for Veterinary Practitioners, Ames, IA: John Wiley & Sons, Inc. 2015, 117-132. (*Co-author of chapter*)
7. **Souza MJ**. Salmonellosis. In: Blackwell's Five-Minute Veterinary Consult, Avian Medicine, Ames, IA: John Wiley & Sons, Inc., pp 260-261, 2016.
8. **Souza MJ**. Campylobacteriosis. In: Blackwell's Five-Minute Veterinary Consult, Avian Medicine, Ames, IA: John Wiley & Sons, Inc. pp 48-49, 2016.
9. **Souza MJ**. Appendix of Selected Zoonotic Diseases of Concern and Personal Protection. In: Blackwell's Five-Minute Veterinary Consult, Avian Medicine, Ames, IA: John Wiley & Sons, Inc., p. 335, 2016.
10. **Souza MJ**. Human Safety and Zoonoses. In: Medical Management of Wildlife Species: A Guide for Practitioners, Ames, IA: John Wiley & Sons, Inc. (*in press*)

Unrefereed Articles:

1. **MJ Souza**. Book review of *Skin Diseases of Exotic Pets*, by S. Patterson, (ed). *Journal of Avian Medicine and Surgery*, 21(2):174, 2007.
2. **MJ Souza**. Book review of *Clinical Radiology of Exotic Companion Mammals*, V. Capello & AM Lennox, (eds). *Exotic DVM*, 11(1):42, 2009.
3. **MJ Souza**. Book review of *Parasitic Diseases of Wild Birds*, CT Atkinson, NJ Thomas, & DB Hunter (eds.). *Journal of the American Veterinary Medical Association*, 234(12):1546,2009.

ABSTRACTS & ORAL PRESENTATIONS:

All titles listed in this section included publication of an abstract in the proceedings and an oral presentation unless otherwise indicated. Presentations were given by M. Souza unless otherwise indicated.

International/National:

1. **MJ Souza**, LA Degernes, Aspergillosis in trumpeter and tundra swans, Annual Conference of the National Wildlife Rehabilitators Association, Newport, RI, March 2003.
2. **MJ Souza**, LA Degernes, Aspergillosis in swans, Annual Conference of the Association of Avian Veterinarians; Pittsburgh, PA, August 2003.
3. **MJ Souza**, CB Greenacre, Clinical applications of analgesics in rabbits, International Conference on Exotics; Ft. Meyer, FL, May 2006.
4. **MJ Souza**, Adventures in veterinary medicine, University of Windsor, Department of Biology, March 9, 2006. (*presentation only*)
5. **MJ Souza**, CB Greenacre, MP Jones, TL Hadley, WH Adams, JS Avenell, JS Wall, GB Daniel, Clinical use of MicroPET and CT imaging in birds, Annual Conference of the Association of Avian Veterinarian, San Antonio, TX, August 2006.
6. CB Greenacre, B Flatland, **MJ Souza**, M Fry. Analysis of two plasma chemistry analyzers in Hispaniolan Amazon parrots, Annual Conference of the Association of Avian Veterinarians, Providence, RI, August 2007. (*presented by CB Greenacre*)

7. **MJ Souza**, MP Jones, S Cox, Pharmacokinetics of tramadol in bald eagles, Annual Conference of the Association of Avian Veterinarians, Providence, RI, August 2007.
8. **MJ Souza**, Small mammal dentistry, 6th Annual Exotics Symposium, UT, Knoxville, TN Jan 4 – 5, 2008.
9. **MJ Souza**, Zoonoses: what can you get from that exotic pet? 6th Annual Exotics Symposium, UT, Knoxville, TN Jan 4 – 5, 2008.
10. **MJ Souza**, CB Greenacre, JS Avenell, J Phillips, M Fry, GB Daniel, S Newman, Intestinal T cell lymphosarcoma in an Amazon parrot, Annual Conference of the Association of Avian Veterinarians, Savannah, GA, August 2008.
11. **MJ Souza**, N McLean, D Ward, K Newkirk, Conjunctival xanthoma in a blue and gold macaw, Annual Conference of the Association of Avian Veterinarians, Savannah, GA, August 2008.
12. **MJ Souza**, LA Degernes, Avian anesthesia, Conference of the European Association of Avian Veterinarians, Antwerp, Belgium, March 2009.
13. **MJ Souza**, JS Wall, GB Daniel, Static and dynamic PET scans of Hispaniolan Amazon parrots (*Amazona ventralis*), Annual Conference of Association of Avian Veterinarians, Milwaukee, WI, August 2009.
14. **MJ Souza**, Small mammal dentistry, University of Tennessee College of Veterinary Medicine Exotics Symposium, January 8, 2010.
15. **MJ Souza**, Advanced imaging in exotics, University of Tennessee College of Veterinary Medicine Exotics Symposium, January 8, 2010.
16. **MJ Souza**, D Guzman, J Paul-Murphy, S Cox, Tramadol in Hispaniolan Amazon parrots, Annual Conference of Association of Avian Veterinarians, San Diego, CA, August 2010.
17. **MJ Souza**, B Donnell, EC Ramsay. Health effects of fly ash exposure on raccoons, TVA Kingston Ash Spill Symposium, Harriman, TN, August 2011.
18. **MJ Souza**, S Cox. Pharmacokinetics of multiple dose oral tramadol in Hispaniolan Amazon parrots, Annual Conference of Association of Avian Veterinarians, Seattle, WA, August 2011.
19. **MJ Souza**, M Gray, P Colclough, B Lammers, D Miller. Infectious disease surveillance of hellbenders (*Cryptobranchus alleganiensis alleganiensis*) in eastern Tennessee, Annual Conference of the Association of Reptile and Amphibian Veterinarians, Seattle, WA, August 2011.
20. **MJ Souza**. Responsible pet ownership: Is it possible with exotic pets? University of Tennessee College of Veterinary Medicine Exotics Symposium, January 8, 2012.
21. **MJ Souza**. Evaluation of a terbinafine impregnated implant for the prevention of white nose syndrome. White nose syndrome symposium, Madison, WI, June 2012.
22. **MJ Souza**. A survey of veterinarians regarding zoonoses in traditional and exotic companion mammals. Annual Conference of the Association of Avian Veterinarians, Louisville, KY, August 2012.
23. **MJ Souza**, LC Emery, G Parsons, L Gerhardt, J Schumacher. Sedative effects of intranasal midazolam and dexmedetomidine in two tortoise species. Annual Conference of the Association of Avian Veterinarians, Louisville, KY, August 2012.
24. **MJ Souza**. Veterinary Medicine: It's not just puppies and kittens. Undergraduate students at Stella Maris College, Chennai, India, February 13, 2013.

25. **MJ Souza.** Avian Zoonoses. Annual Conference of the American Veterinary Medical Association, Chicago, IL, July 19 – 23, 2013.
26. **MJ Souza.** Biosecurity of the backyard flock. Annual Conference of the American Veterinary Medical Association, Chicago, IL, July 19 – 23, 2013.
27. **MJ Souza.** Avian analgesia. Annual Conference of the American Veterinary Medical Association, Chicago, IL, July 19 – 23, 2013.
28. **MJ Souza.** Management of the avian emergency. Annual Conference of the American Veterinary Medical Association, Chicago, IL, July 19 – 23, 2013.
29. CB Greenacre, **MJ Souza.** Inside the Issues Case Presentations: Avian Cases I. Annual Conference of the American Veterinary Medical Association, Chicago, IL, July 19 – 23, 2013. *(co-presenters)*
30. CB Greenacre, **MJ Souza.** Inside the Issues Case Presentations: Avian Cases I. Annual Conference of the American Veterinary Medical Association, Chicago, IL, July 19 – 23, 2013. *(co-presenters)*
31. **MJ Souza.** Practice Tips: One Handed Blood Draws. Annual Conference of the American Veterinary Medical Association, Chicago, IL, July 19 – 23, 2013.
32. A Schenk, **M Souza.** Causes of morbidity and mortality of wildlife cases presented to a wildlife clinic in east Tennessee, 2001 – 2011, Annual Conference of the Wildlife Disease Association, Knoxville, TN, July 2013 *(presented by A. Schenk, mentoring author)*
33. RH Hardman, WB Sutton, D McGinnity, KJ Irwin, S Reinsch, B Fitzpatrick, P Colclough, **M Souza,** M Freake, MJ Gray, DL Miller. Prevalence of *Ranavirus* and *Batrachochytrium dendrobatidis* in Hellbenders of Tennessee and Arkansas. Annual Conference of the Wildlife Disease Association, Knoxville, TN, July 2013. *(presented by DL Miller, contributing author)*
34. **MJ Souza.** Zoonoses associated with exotic pets. Annual Conference of the Association of Avian Veterinarians, Jacksonville, FL, August 2013.
35. A Schenk, **M Souza.** Causes of morbidity and mortality of wildlife cases presented to a wildlife clinic in east Tennessee, 2001 – 2011. Annual Conference of the Association of Avian Veterinarians, Jacksonville, FL, August 2013. *(presented by M. Souza, mentoring author)*
36. S Newman, J Bernard, K Baine, **M Souza.** Disseminated lymphosarcoma in a skunk. Case Midwest Association of Pathologists Meeting, Peoria, IL, August 8-9. *(presented by S Newman, presentation only, senior clinician on case)*
37. **MJ Souza,** D Reeder. B Hines, R Dutkosky, E Ramsay, T Cairns, K Newkirk, S Cox. Investigation of a terbinafine impregnated subcutaneous implant for the prevention or treatment of white nose syndrome in little brown bats (*Myotis lucifugus*). White Syndrome Symposium, Boise, ID, Sept 3-6, 2013. *(presented by B. Hines)*
38. EC Ramsay, J Steeil, T Cross, **MJ Souza.** A risk based quarantine program: an alternative to one size fits all. Annual Conference of the American Association of Zoo Veterinarians, Salt Lake City, UT, Sept 28 – Oct 4, 2013. *(presented by EC Ramsay, contributing author)*
39. **MJ Souza.** Avian Zoonoses. University of Tennessee College of Veterinary Medicine Exotics Symposium, January 12, 2014. *(oral presentation only)*
40. **MJ Souza.** White Nose Syndrome of Bats. University of Tennessee College of Veterinary Medicine Exotics Symposium, January 12, 2014. *(oral presentation only)*

41. **MJ Souza**, M Holub. Integration of One Health into undergraduate and graduate programs. Association of American Veterinary Medical Colleges Annual Conference, Alexandria, VA, March 14-16, 2014.
42. **MJ Souza**, EC Ramsay, RL Donnell. Clean coal? Health effects on raccoons (*Procyon lotor*) following a coal fly ash spill in east Tennessee. Wildlife Disease Association Conference, Albuquerque, NM, July 28- August 1, 2014, p 96.
43. **MJ Souza**. Drug dosing in exotics – are we using evidence based medicine? ExoticsCon, Portland, OR, August 27 – September 1, 2016.
44. **MJ Souza**, P Redig, S Cox. Pharmacokinetics of itraconazole, voriconazole, and terbinafine when delivered by an impregnated subcutaneous implant in Japanese quail. ExoticsCon, Portland, OR, August 27 – September 1, 2016.
45. **MJ Souza**, MS White, KI Gordon, L Gerhardt, J Bailey, SK Cox. Pharmacokinetics and egg residues after oral meloxicam use in poultry. ExoticsCon, Portland, OR, August 27 – September 1, 2016. (*plenary session*)
46. S Cox, J Bailey, M White, K Gordon, **M Souza**. Meloxicam residues in eggs. American Academy of Veterinary Pharmacology and Therapeutics 20th Biennial Symposium, Potomac, MD, May 21-24, 2017.

Regional/State:

1. **MJ Souza**, EL Fields, LA Degernes, Fracture management in raptors, Annual Conference of Wildlife Rehabilitators of North Carolina, Asheboro, NC, January 2004. (*oral presentation only, no published abstract*)
2. **MJ Souza**, Basics of avian medicine, Annual Conference of Tennessee Registered Veterinary Technician Association, Gaitlinburg, TN, October 2006.
3. **MJ Souza**, Small mammal dentistry, University of Tennessee College of Veterinary Medicine Continuing Education Conference, Knoxville, TN, Feb 22 – 24, 2008. .
4. **MJ Souza**, Zoonoses: what can you get from that exotic pet? University of Tennessee College of Veterinary Medicine Continuing Education Conference, Knoxville, TN, Feb 22 – 24, 2008.
5. **MJ Souza**, Positron emission tomography in normal Hispaniolan Amazon parrots (*Amazona ventralis*). 2nd Annual Comparative & Experimental Medicine Research Symposium, Knoxville, TN, June 17, 2008.
6. **MJ Souza**. Rabies surveillance and prevention in TN. Tennessee Animal Care & Control Conference, Nashville, TN, October 8 – 9, 2009. (*oral presentation only, no published abstract*)
7. **MJ Souza**. Rabies surveillance and prevention in TN. University of Tennessee College of Veterinary Medicine Continuing Education Conference, Knoxville, TN, Feb 6, 2010.
8. **MJ Souza**. Veterinary Medicine: It's not just puppies and kittens. *Invited keynote speaker* for 5th Annual Women and Philanthropy Symposium, Knoxville, TN, Feb 22, 2013. (*presentation only, no published abstract*)
9. **MJ Souza**. One Health: What the HELLbenders have to do with it. *Invited keynote speaker* for Comparative & Experimental Medicine and Public Health Research Symposium, Knoxville, TN, May 21-22, 2013. (*presentation only, no published abstract*)
10. **MJ Souza**. Epidemics of the less glamorous wildlife. Invited speaker for UT Science Forum, Knoxville, TN, March 7, 2013. (*presentation only, no published abstract*)

11. **MJ Souza.** East Tennessee Health Forum on Ebola. Invited panel member, Knoxville, TN, October 21, 2014.
12. **MJ Souza.** Update on rabies regulations. 2017 Henton Veterinary Conference, Knoxville, TN. December 5-7, 2017.
13. **MJ Souza.** One Health: People, Policy & Conservation. 2018 Student Exotics Symposium, UTCVM, Knoxville, TN January 20, 2018.

Local – Knox and Surrounding Area:

1. **MJ Souza,** Advances in Avian Medicine, Monthly meeting of the Smoky Mountain Cage Bird Society, Asheville, NC, February 8, 2004.
2. **MJ Souza,** Advances in Avian Medicine, monthly meeting of the Smoky Mountain Cage Bird Society, Asheville, NC, January 8, 2006.
3. **MJ Souza,** Diagnostic Imaging, Avian, Wildlife and Exotics student club at University of Tennessee, April 17, 2006. (presentation only)
4. **MJ Souza,** Lead toxicity and aspergillosis in swans, Oak Ridge National Laboratory Environmental Toxicology group, Feb 9, 2007.
5. **MJ Souza,** One Medicine: The link between exotic animal medicine and public health, UT-CVM Seminar, March 12, 2008.
6. **MJ Souza,** Stop! Don't feed that raccoon! UT Science Forum, Knoxville, TN, October 30, 2009.
7. **MJ Souza.** Brown bag, Green Book Guest moderator for *Forbidden Creatures*; book club organized by the Knox County Libraries, August 24, 2011.
8. **MJ Souza,** Epidemics of the less Glamorous. UT Science Forum, Knoxville, TN, Spring 2014.
9. **MJ Souza,** Epidemics of the less glamorous wildlife. UT Seniors for Creative Learning, March 10, 2015.
10. **MJ Souza.** Bushmeat, Dogs & People: a One Health Project in Rural Uganda. Public Health Forum, November 7, 2016.

POSTERS:

1. J Wall, T Richey, A Stuckey, J Avenell, S Kennel, D Townsend, B Jakoby, F Morandi, M Jones, C Greenacre, **M Souza,** A LeBlanc. Clinical Diagnostic Veterinary Imaging Using MicroPET and MicroCT Platforms. 2008 World Molecular Imaging Congress, Sept 10-13, 2008. (*contributing author*)
2. S Geleen, D Guzman, **MJ Souza,** NS Keuler, JR Paul-Murphy. Antinociceptive effect of intravenous tramadol in Hispaniolan Amazon parrots (*Amazon ventralis*) using withdrawal from a noxious thermal stimulus. Poster at 2010 Merit NIH National Veterinary Scholars Symposium, Athens, GA, Aug 5-8, 2010 (*PI on funding grant*)
3. JS Wall, A Stuckey, SJ Kennel, T Richey, F Morandi, M Jones, C Greenacre, **M Souza,** A LeBlanc. Diagnostic veterinary imaging using micro-imaging platforms. Poster at American College of Veterinary Radiology Annual Conference, Asheville, NC, August 2010. (*contributing author*)
4. **MJ Souza,** JW Yarbrough, SK Cox. In vitro investigation of a terbinafine impregnated subcutaneous implant. White nose syndrome symposium, Little Rock, AR, June 2012.
5. S Nelson, B Fitzpatrick, **MJ Souza.** Assessing northern water snakes (*Nerodia sipedon sipedon*) as possible carriers of ranavirus. 18th Annual Tennessee Herpetological Society meeting, Martin, TN, Sept 27 – 28, 2012. (*mentoring author*)

6. R Dutkosky, K Newkirk, D Reeder, E Ramsay, **M Souza**. Evaluation of a terbinafine impregnated subcutaneous implant in *Geomyces destructans*-infected bats. Annual Conference of the American College of Veterinary Pathologists, Seattle, WA, December 2012. (*PI on funding grant, mentoring author*)

POPULAR PRESS ARTICLES AND STORIES:

1. Numerous appearances on WBIR, local NBC affiliate, Live at Five at Four for various topics including care of rabbits, birds, prevention of *Salmonella* food-borne illness, *Baylisascaris procyonis*, rabies, white nose syndrome, 2005 – 2013
2. “Dog bite prevention”, WVLT, local CBS affiliate, November 2007.
3. “Hunting for hellbenders” in *Knoxville News Sentinel*, July 27, 2009.
4. “Cave blitz helps bat research” in *Knoxville News Sentinel*, December 31, 2011.
5. “Wildlife experts fight to save bats from deadly fungus” on *The Today Show*, December 28, 2012.
6. “Avian medicine workshop kicks off” in *The New Indian Express*, January 29, 2013
7. “Veterinarians probe capsicum, get a gut feel of ailing birds”, in the *Times of India*, February 6, 2013.
8. “Educator profile” in *Everything Knoxville*, February 2013.
9. Two appearances on WATE, local ABC affiliate, regarding seizure of a pet deer and wildlife rehabilitation, August 15 & 16, 2013.
10. One appearance on WATE, local ABC affiliate, regarding a bear in the middle of downtown Gatlinburg and the people that were chasing it to get a picture, September 9, 2013.
11. One appearance on WHBQ, Memphis Fox13 station, regarding the dangers of exotic pet ownership, April 14, 2014.
12. One appearance on WBIR, regarding zoonotic diseases we can get from our pets (in response to ebola concerns), October 2014.
13. One appearance on WBIR, illness in raccoons and how to keep you and your pets safe, February 25, 2016.
14. One appearance on WBIR, rabbits as pets, March 8, 2016.
15. One appearance on WATE, campylobacteriosis from puppies, September 2017.
16. Quoted in news article in Chattanooga Free Times Press, salmonellosis from backyard poultry, September 2017.
17. Quoted in news article in Knoxville News Sentinel, whether to allow exotic animals in country parks, November 20, 2017.
18. One appearance on WATE, Felix the Fennec Fox – attempts to change county park ordinances, November 20, 2017.