

**CUrriculum Vitae**

**J a c o b M S h i v l e y , D V M , M S**

**M I s s i s s i p p I S t a t e u n i v e r s i t y**

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# Education

**Master of Science | Veterinary Medical Science**

Mississippi State University College of Veterinary Medicine May 2019

Starkville, MS

*GPA-4.0*

**Doctor of Veterinary Medicine** Mississippi State University College of Veterinary Medicine April 2008

Starkville, MS

*GPA-3.68/4.0; Class Rank-11/66*

**Bachelor of Science | Wildlife and Fisheries Science** Mississippi State University May 2004

Starkville, MS

*Summa cum Laude, GPA-3.89/4.0*

# Work Experience

**Associate Clinical Professor and Service Chief | Shelter Medicine**

 Clinical Sciences Department 2021-pres

 Mississippi State University College of Veterinary Medicine

 Starkville, MS

**Assistant Clinical Professor**

 Clinical Sciences Department 2014-2021

 Mississippi State University College of Veterinary Medicine

 Starkville, MS

**Clinical Instructor**

 Community Veterinary Services 2013-2014

 Mississippi State University College of Veterinary Medicine

 Starkville, MS

**Associate Veterinarian**

 New Hope Animal Hospital 2010-2013

Rogers, AR

**Surgical Internship**

 Wheat Ridge Animal Hospital 2009-2010

 Wheat Ridge, CO

**Internship in Small Animal Medicine and Surgery**

 Mississippi State University College of Veterinary Medicine 2008-2009 Starkville, MS

# Awards, Honors, and Scholarships

MSU Alumni Association Professional Teaching Award 2022

 Prestigious, university-wide award for applicants who have 3 years of

 experience primarily teaching professional students and who can

 clearly demonstrate mastery of outstanding teaching.

 MSU

Inducted into the Honor Society of Phi Kappa Phi 2018

 Premier academic honor society. Indicates graduate students in the

 top 10% of their class with GPA > 3.75.

 MSU

Finalist for DAFVM Superior Faculty Award 2017

 Teaching award for faculty demonstrating exemplary

 instruction and assessment techniques.

 MSU Division of Agriculture, Forestry, and Veterinary Medicine

Inducted into the Honor Society of Gamma Sigma Delta 2017

 The Honor Society of Agriculture. Membership indicates exceptional

 academic and professional performance.

 DAFVM

Dean’s Pegasus Award for Teaching 2016

 Prestigious, peer-nominated award for excellence in teaching.

MSU-CVM

Associate Dean’s Award 2008

Graduating student who has demonstrated academic excellence, has made

significant contributions to the Class of 2008, the CVM, and MSU, and has

pursued educational opportunities in areas other than private practice.

MSU-CVM

Greenville Kennel Club Scholarship

Met and maintained above-average scholarly requirements, good moral

character and demonstrated leadership ability.

Wise Scholar

 3.5-3.79 GPA

Mississippi Veterinary Medical Association (MVMA) Hall of Fame Scholarship

 Good moral character and demonstrated leadership ability

Greenville Kennel Club Scholarship 2006-2007

MVMA Hall of Fame Scholarship

# Teaching

Teaching is such a key component for my professional career and personal motivations. I believe excellent teachers comprehend that their uniqueness, the way they operate throughout their life, is influenced by their teacher-motivation. Therefor being a master teacher cannot manifest through merely a way of acting or behaving, but through simply being. I aim to be this type of excellent teacher. My primary responsibilities lie heavily within our Shelter Program here at MSU-CVM where I have developed and refined the way we train and assess our students and the way we implement different learning theories and strategies into our training. I have recently taken on more administrative and lecturing responsibilities in four other courses. Please see each description below for more fine-grained information.

## Courses

**Course Leader, CVM 5196, Small Animal Medicine and Surgery II Lecture** 2023

MSU-CVM, Starkville, MS

An intense, team taught, 5-hour credit course offered in the Spring. I handle the administrative and leadership roles which can include designing the syllabus, organizing lecturers, encouraging appropriate lecture and exam question design and constructing examinations that incorporate appropriate design elements according to updated educational principles and philosophies.

**Surgery Section Coordinator, CVM 5186/5196, Small Animal Medicine and Surgery Lab** 2022-pres

MSU-CVM, Starkville, MS

An intense, 1-hour credit lab focused on live animal care, anesthesia, and surgery. I restructured the surgery section of this lab to include advances in educational philosophy, authentic laboratory learning experiences in preparation for live animal surgery, and alignment with AAVMC competency framework.

**Course Leader, CVM 5560, Advanced Clinical Rotation in Shelter Medicine** 2021-pres

 MSU-CVM, Starkville, MS

A 2-week experience curated through partnership with MSU-CVM and Oktibbeha County Humane Society (OCHS). I administrate this experience through communication and scheduling and provide the structure and mentorship necessary for ACR students to experience shelter medicine through the lens of a shelter medicine veterinarian on site at OCHS.

**Lecturer, CVM 5036, Veterinary Physiology** 2020-pres

 MSU-CVM, Starkville, MS

6 hours of lecture-based instruction to veterinary students in their team-taught freshman physiology course, specifically focused on cardiac physiology. Borrowing from the 5E Instructional model, I engage the students with a problem, then explore and explain physiologic and disease mechanisms coupled with their clinical significance and evaluate their knowledge with questions using the polleverywhere.com engagement platform.

**Lecturer, CVM 5133, Veterinary Preventive Medicine**  2019-pres

 MSU-CVM, Starkville, MS

1 hr lecture on Case Studies in Small Animal Zoonosis; *Brucella Canis*. Using 6 interesting case studies as the jumping off point, students are led through discovery and analysis of the epidemiological implications as well as managing the individual case of brucellosis.

**Lecturer, CVM 5011 Professional Development I**  2019-pres

 MSU-CVM, Starkville, MS

1 hr lecture on veterinary professionalism and another on career pathways; Using active learning strategies and engagement software, I lecture on concepts of professionalism and characteristics of the veterinary professional in school and beyond, and on career pathways, specific to my personal career path. In 2021, added a 1 hr lecture on career pathways; roundtable discussion specifically explaining my own pathway of internships to private practice to academia.

**Course Leader, CVM 5640** **Shelter Medicine** **Rotation** 2015-pres

MSU-CVM, Starkville, MS

A year long, 2-week elective rotation offered to fourth year veterinary students and externs. I provide administrative structure for this course by managing 3 technicians and 6 doctors, oversee maintenance of the two mobile veterinary surgical units and the Shelter Medicine Scales building, act as liaison for veterinary disaster response, establish and maintain assessment for all students, and oversee the communications between the MSU-CVM Shelter Medicine program and the shelters and rescue groups it serves.

I teach high-quality high-volume spay/neuter surgical skills to 5 senior students each 2-week period. Practically all MSU veterinary students undertake the elective. There are 20-30 student-performed surgeries each day and students average 55 surgeries by the end of the 2-week elective.

This program provides MSU-CVM approximately one-third of its hospital caseload and is a point of pride for the university. During MSU-CVMs 2014 COE evaluation, this program received the highest honor during the review. Finally, the Shelter Medicine Program is recognized as one of the leading programs in the nation and founder of the mobile high-quality, high-volume spay/neuter movement in academia.

**Instructor, CVM 5196 Small Animal Medicine and Surgery** 2015-2022

 MSU-CVM, Starkville, MS

Using experiential learning and hands-on instruction in a group-taught laboratory setting, I participate weekly in teaching spay/neuter procedures during sophomore surgery laboratory. I helped proctor a yearly 5-hour practical laboratory examination.

**Course Leader, CVM 5021, Professional Development II** 2020-2022

 MSU-CVM, Starkville, MS

16 contact hour, team-taught course covering topics from veterinary career paths, approaches to clinical problem solving, veterinary hot topics and challenges facing the profession, to cultural competence and introduction to veterinary communications.

**Course Leader, Shelter Medicine Externship Program** 2014-2020

MSU-CVM, Starkville, MS

A 2-week experience for national and international veterinary students from other veterinary programs learning high-quality high-volume spay/neuter. I lead this program administratively and provide instruction and mentorship to externs.

This is an ambassador program for national and international recognition for MSU-CVM. This program has hosted and trained 141 extern students: 100 from within the US and 41 from other countries (Makerere University; Africa. Koret School of Vet Med; Jerusalem, Israel. Univ. of Copenhagen; Copenhagen, Denmark. Royal Vet College; London, UK. Univ. College Dublin Vet School; Dublin, Ireland. Univ. of Guelph; Ontario, Canada. Atlantic Veterinary College; PEI, Canada).

This program has also helped train MSU-CVM interns and hosted visiting DVMs from Guatemala, Egypt, and Portugal for spay/neuter training. Finally, it has hosted faculty from Kansas State, the Ohio State, Univ. of Florida, Illinois and from Charlotte, NC to demonstrate the effectiveness of the MSU-CVM Shelter Medicine Program.

**Co-leader, CVS Shelter Medicine Week** 2016-2020

CVM 5246, MSU-CVM, Starkville, MS

Developed and refined educational design of course. Created and maintained course syllabus, a threshold event rubric, structured learning objectives, and learning resources. Taught routine physical examination and diagnostic skills, treatment planning, and how to communicate this effectively to shelter personnel. Taught and assessed students in HQHVSN.

**Shelter Medicine Journal Club** 2016-2018

 Created, organized, and led reviews of relevant and timely journal articles. Implemented

 evidence-based change to the MSU-CVM Shelter Medicine program.

**Instructor, CVM 5246 Community Veterinary Services**  2014-2016

MSU-CVM, Starkville, MS

A 6-week required rotation for third year veterinary students. Taught routine clinical skills on medical day trips to shelters, surgical skills on assigned surgery days, and lectured on surgical complications seen in spay/neuter surgeries and surgical case presentations.

## Lectures and Presentations

Veterinary Career Pathways 2021-pres

 CVM 5011

 Roundtable style discussion, focusing on my personal career path with interactive

 Q&A session

 1 hr lecture to 1st year DVM students

Cardiac Physiology 2020-pres

 CVM 5036

Rhythmical excitation of the heart; basis of the normal electrocardiogram; cardiac

arrhythmias and their electrocardiographic interpretation

Four, 1 hr lectures to 1st year DVM students

Cardiac Physiology 2020-pres

 CVM 5036

Cardiac output, venous return, and cardiac index; muscle blood flow

and cardiac output during exercise; the coronary circulation and

ischemic heart disease; cardiac failure

Two, 1 hr lectures to 1st year DVM students

Case Studies in Small Animal Zoonosis; *Brucella Canis* 2019-pres

 CVM 5133

Case Studies, epidemiological implications, and case management

1 hr lecture to 2nd year DVM students

Veterinary Professionalism 2019-pres

 CVM 5011

 Concepts of professionalism, ethics, and characteristics of the veterinary

professional, including professionalism in this social media ago

 1 hr lecture to 1st year DVM students

Parasitic Dermatoses 2015-2023

 CVM 5196

 Major ectoparasites in dogs and cats

 1 hr lecture to 2nd year DVM students

Unusual Spay/Neuter Presentations 2019

 MSU-CVM Shelter Club

 Uncommon and unusual conditions and surgeries encountered in spay/neuter

 1 hr lecture to 1st and 2nd year DVM students

Pedicle Hinge Flap Case Presentation 2017-2019

 CVM 5246

 Uncommon soft tissue surgical case presentation

 1 hr lecture and discussion to 3rd year DVM students

Spay/Neuter Surgical Complications 2014-2020

 CVM 5246

 Commonly encountered surgical complications and odd presentations

 1 hr lecture and discussion to 3rd year DVM students

Shelter Medicine Behavior 2014-2016

 CVM 5246

 Commonly seen behavior disorders and shelter management strategies

 1 hr lecture and discussion to 3rd year DVM students

Community educational series 2011-2012

 Rogers, AR

Pet dental care, Weight management, Q&A session

 1 hr presentations for public at Rogers Adult Wellness Center

Physical Examination Series 2010-2011

 Rogers, AR

Ears, Front limb, Hind limb

 1 hr presentations to faculty and staff of New Hope Animal Hospital

Bread Dough Toxicosis 2011

 Rogers, AR

30 min. presentation to faculty and staff of New Hope Animal Hospital

The 4 Ways to Fix Canine ACL Injures 2009

 Wheat Ridge, CO

Surgical Intern Seminar for WRAH faculty and staff

Anticoagulant Rodenticide-an Uncommon Case Presentation

 Mississippi State University, Starkville, MS

Intern seminar for students, faculty, and staff of MSU-CVM

Intestinal Pythiosis

 Mississippi State University, Starkville, MS

CVM 5256; 30 min presentation to junior surgery students

Ventral Slot

 Mississippi State University, Starkville, MS

CVM 5256; 30 min presentations to junior surgery students

Wound Healing and Management 2008-2009

 Mississippi State University, Starkville, MS

CVM 5310; 1 hr presentations to senior emergency/ICU students

 CVM 5256; 1 hr presentation to junior surgery students

IMHA Case Presentation 2008

 Mississippi State University, Starkville, MS

CVM 5310; 1 hr presentations to senior emergency/ICU students

Canine Dystocia Case Presentation

 Mississippi State University, Starkville, MS

CVM 5310; 1 hr presentations to senior emergency/ICU students

Diskospondylitis

 Mississippi State University, Starkville, MS

CVM 5256; 30 min presentations to junior surgery students

## Mentorship and Supervision

Mentoring our clinical instructors, interns, and residents is something I take great pride in. I believe great leaders are always looking to train their replacement, and training junior instructors and interns/residents is no different. Many of the doctors (and students) that have moved on still call and ask for consultations and advice, and some have even moved into managing their own programs and spay/neuter mobile units.

Mentor and Supervisor, Clinical Instructor, Dr. Thomas McBride 2023-pres

Training and mentoring in HQHVSN surgery and the skills needed to correct student complications encountered during HQHVSN while simultaneously demonstrating appropriate skill, competence, and confidence to students. Teaching direct surgical instructional methods with an emphasis on student training and assessment. Currently working with MSU-CVM.

Mentor, Assistant Clinical Professor Veterinary Neurology, Dr. Chun-Sheng (Jason) Lee 2023-pres

Mentoring in adapting to the assistant clinical professorship. Mentoring in improving clinical teaching and didactic/lecture skills and teaching. Mentoring in research, such as IACUC protocols and obtaining cadaveric samples. Mentoring in building an academic CV and preparing for yearly faculty evaluations.

Mentor and Supervisor, Clinical Instructor, Dr. Jeremy Shapero 2022-pres

Training and mentoring in HQHVSN surgery and the skills needed to correct student complications encountered during HQHVSN while simultaneously demonstrating appropriate skill, competence, and confidence to students. Teaching direct surgical instructional methods with an emphasis on student training and assessment. Currently working with MSU-CVM.

Mentor, Population Medicine Resident, Dr. Dallas Riley 2021-pres

Joined Dr. Riley’s graduate committee. Provide mentorship in navigating the complexities of academia, setting career goals, and working towards achieving them. Training and mentoring in HQHVSN surgery and the skills needed to correct student complications encountered during HQHVSN while simultaneously demonstrating appropriate skill, competence, and confidence to students. Teaching direct surgical instructional methods with an emphasis on student training and assessment. Now a clinical instructor at MSU-CVM.

Mentor and Supervisor, Clinical Instructor, Dr. Alex Shealy 2020-pres

Training and mentoring in HQHVSN surgery and the skills needed to correct student complications encountered during HQHVSN while simultaneously demonstrating appropriate skill, competence, and confidence to students. Teaching direct surgical instructional methods with an emphasis on student training and assessment. Counseling in how to deal with interpersonal staff issues, leadership training, and navigating the complexities of working in an animal shelter. Guidance and editing for various presentations such as CVS rounds and MM rounds. Mentorship for creating an elective and becoming course leader for 3rd year shelter medicine elective. Currently a Clinical Instructor at MSU-CVM.

Mentor and Supervisor, Clinical Instructor, Dr. Chase Seyer 2018-2022

Training and mentoring in HQHVSN surgery and the procedures needed to correct student complications encountered during HQHVSN. Teaching direct surgical and medical instructional methods with an emphasis on student training and assessment. Observing and evaluating his teaching strategies and providing direct and written feedback for improvement. Directed him in the student training/assessment responsibilities for CVS Shelter Medical Week and for the Shelter Medicine Spay/Neuter Elective and in delivering a lecture in my professional development class. Currently working as the lead veterinarian at Gulf Coast Humane Society in Florida.

Mentor, Undergraduate Intern, Rebecca Finchbaugh 2017-2018

Provided mentorship on application to MSU-CVM and career advice. Rebecca shadowed me multiple days on the shelter medicine surgical and medical services. Provided support to her and Dr. Brookshire for her summer research project. Successful entry into MSU-CVM class of 2022.

Mentor, Clinical Instructor, Dr. Erica Unz 2017-2018

Training and mentoring in HQHVSN surgery, hernia repair, mass removal, wound management, amputation, eye enucleation, and other soft tissue procedures related to student complications encountered during HQHVSN. Taught her direct surgical and medical instructional methods with an emphasis on student training and assessment. Directed her in the student training/assessment responsibilities for CVS Shelter Medical Week and for the Shelter Medicine Spay/Neuter Elective. Trained her in communication strategies with shelter personnel regarding post-operative surgical complications and necropsy reports. Has worked with the ASPCA in New York and Florida, now working on a mobile unit program, Meows and Purrs Feline Hospital.

Mentor, Shelter Medicine Intern; Dr. Jodi Richardson 2016-2017

Directly responsible for training and mentoring in performing HQHVSN surgery, hernia repair, mass removal, wound management, reconstructive surgery, amputation, eye enucleation, and femoral head and neck otectomy. Taught direct surgical and medical instructional methods with student training and assessment as a priority. Guided Jodi through a grant submission, clinical research project, and presenting the research findings during her intern seminar. Also mentored her through managing a challenging wound management case which resulted in a case presentation and scholarly article that was accepted by the Journal of Feline Medicine and Surgery. Now in private practice at Banfield in Washington, PA.

Mentor, Clinical Instructor, Dr. Cooper Brookshire 2015-2018

Directly responsible for training and mentoring in HQHVSN surgery, hernia repair, mass removal, wound management, reconstructive surgery, amputation, eye enucleation, and other soft tissue procedures. Teaching direct surgical and medical instructional methods with an emphasis on student training and assessment. Training in how to deal with work-place conflict and conflict-management. Collaboration on several manuscripts and projects. Now on faculty at MSU-CVM.

Mentor, Shelter Medicine Resident, Uri Donnett 2015-2018

Directly responsible for training and mentoring in performing HQHVSN surgery, hernia repair, mass removal, wound management, reconstructive surgery, amputation, eye enucleation, and femoral head and neck otectomy. Taught direct surgical and medical instructional methods and student assessment. Mentored him through his final manuscript on post-operative complications and helped provide leadership to bring a team of authors together to meet the authoring need. Now working as the lead veterinarian at Dane County Humane Society in Wisconsin.

1st year mentorship program 2016-2019

Mentored 9, 1st year veterinary students by meeting with them in person and through email to discuss coursework, test-taking, career goals, summer research, and school-life balance.

# Research

Before arriving to academia, I had little interest in research. However, simply being in the collegial environment and completing my graduate degree has provided the foundations for first-author peer-reviewed publications, scientific abstracts and presentations, and some grant work. I have enjoyed exploring teaching pedagogy, veterinary medical education, and spay/neuter surgical techniques.

## Peer Reviewed Publications

Durr BJ, Ballard LD, Knight AD, Seo K-S, Langston VC, Thompson AC, **Shivley JM** and Brookshire WC (2023) Assessment of accredited veterinary diagnostic laboratory use of breakpoints for canine and feline *Escherichia coli*infections in the United States and Canada. *Front. Vet. Sci*. 10:1178522. <https://doi.org/10.3389/fvets.2023.1178522>

Dozier, ME, Porter, B, **Shivley, JM**, Telle, MR. Increased animal ownership in the home is correlated with worse health outcomes based on health-care indicators investigated in canines and felines in rural Mississippi. *Journal of the American Veterinary Medical Association* 1.aop (2023): 1-6. DOI: <https://doi.org/10.2460/javma.22.12.0589>

**Shivley, JM,** Woodruff, KA, Shealy, AP, Bushby, PA, Brookshire, WC. Update on Orchiectomy. *Today’s Veterinary Practice.* October 10, 2022 12(6), 54-65. <https://todaysveterinarypractice.com/soft-tissue-surgery/update-on-ovariohysterectomy/>

Brookshire, WC, **Shivley, JM**. Antibiotic Stewardship in Canine and Feline Respiratory Infections.*Today’s Veterinary Practice.* 2021 11(4), 100-106. <https://todaysveterinarypractice.com/antibiotic-stewardship-in-canine-and-feline-respiratory-infections/>

Brookshire, WC, **Shivley, JM**. Improving Patient Outcomes Through Antibiotic Stewardship*. Today’s Veterinary Practice.* 2021 11(2), 64-71. <https://todaysveterinarypractice.com/improving-patient-outcomes-through-antibiotic-stewardship/>

*\*Has been cited 1 time.*

**Shivley, JM,** Brookshire, WC, Baumgartner, WA. Mixed Chromatophoroma (benign irido-melanocytoma) in a male Siamese fighting fish, *Betta splendens*, Regan. *Journal of Fish Diseases*. November 23, 2020. <https://doi.org/10.1111/jfd.13303>

*\*Has been cited 3 times.*

**Shivley, JM,** Bushby, PA, Brookshire, WC, Woodruff, K. Update on Ovariohysterectomy. *Today’s Veterinary Practice.* 2020, 10(4), 52-69. <https://todaysveterinarypractice.com/update-on-ovariohysterectomy/>

*\*Has been cited 2 times.*

**Shivley, J.M.**, 2019, ‘Acquisition of pedagogical knowledge by instructors of veterinary medicine’, *Transformation in Higher Education* 4(0), a54. <https://doi.org/10.4102/the.v4i0.54>

*\*Has been cited 1 time.*

Shivley JM,

Richardson JM, Woodruff KA, Brookshire WC,

Meyer RE, Smith DR. Sharp transection of the sus-

pensory ligament as an alternative to digital strum-

ming during canine ovariohysterectomy. Veterinary

Surgery. 2018;1–6.

https://doi.o rg/10.1111/vsu.13121

6 SHIVLEY ET AL.

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pensory ligament as an alternative to digital strum-

ming during canine ovariohysterectomy. Veterinary

Surgery. 2018;1–6.

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Meyer RE, Smith DR. Sharp transection of the sus-

pensory ligament as an alternative to digital strum-

ming during canine ovariohysterectomy. Veterinary

Surgery. 2018;1–6.

https://doi.org/10.1111/vsu.13121

6 SHIVLEY ET AL.

**Shivley JM**, Richardson JM, Woodruff KA, Brookshire WC, Meyer RE, Smith DR. Sharp transection of the suspensory ligament as an alternative to digital strumming during canine ovariohysterectomy. *Veterinary Surgery*. 2018;1-6. <https://doi.org/10.1111/vsu.13121>

*\*Has been cited 4 times.*

**Shivley JM**, Brookshire WC, Bushby PA and Woodruff KA (2018 May 11). Clinically Prepared Veterinary Students: Enhancing Veterinary Student Hands-on Experiences and Supporting Hospital Caseload Using Shelter Medicine Program. *Front. Vet. Sci.* 5:95. <https://doi.org/10.3389/fvets.2018.00095>

*\* Has been cited 12 times.*

Brookshire, W.C., **Shivley, J.M.**, Woodruff, K., Cooley, J. Uterus Unicornis and Pregnancy in Two Feline Littermates. *Journal of Feline Medicine and Surgery Open Reports.* 2017 Dec 11; 3(2). <https://doi.org/10.1177/2055116917743614>

\*Has been cited 11 times.

Richardson, J., **Shivley, J.M**., Bushby, P. Single-Pedicle Hinge Flap Performed by Shelter Medicine Team Resolves Chronic Antebrachial Wound in a Cat. *Journal of Feline Medicine and Surgery Open Reports.* 2017 Sept 18; 3(2). <https://doi.org/10.1177/2055116917729559>

Bushby, P., Woodruff, K., **Shivley, J.M.** The Mississippi State University College of Veterinary Medicine Shelter Program. *Animals (Basel).* 2015 Apr 24;5(2):259-69. <https://doi.org/10.3390/ani5020259>

*\*Has been cited 6 times.*

Fasanella, F. J., **Shivley, J.M.**, Wardlaw, J. L., & Givaruangsawat, S. Brachycephalic airway obstructive syndrome in dogs: 90 cases (1991–2008). *Journal of the American Veterinary Medical Association*. 2010 237(9), 1048-1051. <https://doi.org/10.2460/javma.237.9.1048>

\*Has been cited 198 times.

## Scientific Abstracts/Presentations

*\*Underline denotes presenter*

**Banse H,**Roush J, Schleining J, Chaney K, Stough-Hunter A, Navarre C, Boudreaux B, **Shivley J**, Anderson S, Ward J, Althouse G, Garden O.  Planning for the Future: Evaluating Veterinary Workforce Demand.  Accepted to AAVMC Annual Conference, Washington DC, March 2023. Abstract and oral presentation.

**Shivley, J.M.**, Brookshire, W.C., Shealy, A.P., Seyer, C.A., Bushby P.A., Woodruff, K.A. A Randomized Trial to Compare Smooth Monofilament Suture Versus Barbed Suture in Canine Ovariohysterectomy in a HQHVSN Clinic. ACVS Symposium, Portland, OR, Oct 12-16, 2022. Abstract and oral presentation.

A. Jones, **J. Shivley**, K. Woodruff, I. Jumper, C. Brookshire. Antimicrobial Use by Veterinarians in Canine Practice in Alabama, USA. MSU-CVM Summer Research Experience. August 2021. Abstract and poster presentation.

**Shivley, J.M.** Acquisition of pedagogical knowledge by instructors of veterinary medicine. MSU-CVM Seminar course, CVM 8011. August 27, 2019. 3-minute abstract presentation.

**Shivley, J.M.** Acquisition of pedagogical knowledge by instructors of veterinary medicine. Scholarship/Educational Research Session, 4th Biennial Conference of the Teaching Academy of the Consortium of West Region Colleges of Veterinary Medicine, June 25-27, 2019. Poster presentation.

**Shivley, J.M.** Using the experiential learning framework in spay/neuter surgical skill acquisition. Teaching Innovation Session, 4th Biennial Conference of the Teaching Academy of the Consortium of West Region Colleges of Veterinary Medicine, June 25-27, 2019. Poster presentation.

**Shivley, J.M.** Engaging intrinsic teacher motivation: Using pedagogical frameworks and theory in the clinical setting. Teaching Innovation Session, 4th Biennial Conference of the Teaching Academy of the Consortium of West Region Colleges of Veterinary Medicine, June 25-27, 2019. Poster presentation.

**Shivley, J.M.** Teaching the next generation of veterinarians: Philosophies and practices in the clinical environment. Invited lecturer at DCS faculty meeting, Starkville, MS, April 18, 2019. Oral presentation.

**Shivley, J.M.** Philosophical frameworks and pedagogical perceptions: Teaching the next generation of veterinarians. Final graduate seminar, Starkville, MS, Feb 27, 2019. Oral presentation.

**Shivley, J.M.**, Richardson, J.M., Smith, D.R., Meyer, R.E., Brookshire, W.C., Woodruff, K.A. Transection as a Safe and Faster Means to Release the Suspensory During Canine Ovariohysterectomy. International Symposia for Veterinary Epidemiology and Economics, Chiang Mai, Thailand, Nov 2018. Poster presentation.

**Shivley, J.M.**, Richardson, J.M., Smith, D.R., Meyer, R.E., Brookshire, W.C., Woodruff, K.A. Transection as a Safe and Faster Means to Release the Suspensory During Canine Ovariohysterectomy. Conference of Research Workers in Animal Diseases, Chicago, IL, Dec 3-5, 2017. Abstract and oral presentation.

**Shivley, J.M.**, Richardson, J.M., Bushby P. Single-Pedicle Hinge Flap Performed by Shelter Medicine Team Resolves Chronic Antebrachial Wound in a Cat. ABVP Symposium, Atlanta, GA, Oct 5-9, 2017. Abstract and oral presentation.

**Shivley, J.M.**, Richardson, J.M., Smith, D.R., Meyer, R.E., Brookshire, W.C., Woodruff, K.A. Transection as a Safe and Faster Means to Release the Suspensory During Canine Ovariohysterectomy. 2017 ABVP Symposium, Atlanta, GA, Oct 5-9, 2017. Abstract and oral presentation.

Amos, B., Loftin, C.M., Woodruff, K.A., **Shivley, J.M.**, Smith, D.R., Brookshire, W.C. A clinical trial to investigate the efficacy of tramadol as an antitussive in anesthetized dogs. National Veterinary Scholars Symposium, National Institute of Health, Bethesda, Maryland, 2017. Poster presentation.

Amos, B., Loftin, C.M., Woodruff, K.A., **Shivley, J.M.**, Smith, D.R., Brookshire, W.C. A clinical trial to investigate the efficacy of tramadol as an antitussive in anesthetized dogs. Summer Research Symposium, College of Veterinary Medicine, Mississippi State University, 2017. Poster and oral Presentation.

Woodruff K., **Shivley J.M**, Donnett U., Smith D. Pedicle tie as a safe and efficient means of ovarian

pedicle hemostasis in feline ovariohysterectomy. Conference of Research Workers in Animal Diseases, Chicago, IL, Dec 4-6, 2016. Abstract and oral presentation.

**Shivley, J.M.**, K.A. Woodruff, D.R. Smith, U.B. Donnett. Pedicle tie as a safe and efficient means of ovarian pedicle hemostasis in feline ovariohysterectomy. ABVP Symposium, San Antonio, TX, Oct 7-9, 2016. Abstract and oral presentation.

**Shivley, J.M.**, K.A. Woodruff, D.R. Smith, U.B. Donnett. Pedicle tie as a safe and efficient means of ovarian pedicle hemostasis in feline ovariohysterectomy. Conference of Research Workers in Animal Diseases, Chicago, IL, Dec 6-8, 2015. Abstract and oral presentation.

Donnett U., Woodruff K., **Shivley J.M**. Peri-operative morbidity and risk factors associated with routine

sterilization surgeries performed on a mobile surgical service. Conference of Research Workers in

Animal Diseases, Chicago, IL, Dec 6-8, 2015. Abstract and oral presentation.

Woodruff K., Donnett U., Smith D., **Shivley J.M**. Progression of surgical efficiency, incision length and

complication rate in senior veterinary students enrolled in a 2 week spay/neuter surgical elective.

Conference of Research Workers in Animal Diseases, Chicago, IL, Dec 6-8, 2015. Abstract and oral

presentation.

Donnett U.,Woodruff K., **Shivley J.M**.Peri-operative morbidity associated with routine sterilization

surgeries performed on a mobile surgical service. ABVP Symposium, New Orleans, LA, Nov 12-15, 2015. Published abstract on VIN and oral presentation in Shelter Medicine track.

Donnett U., **Shivley J.M.**, Woodruff K. Surveillance of ecto- and endoparasitism in northern

Mississippi canine shelter populations. Conference of Research Workers in Animal Diseases. Chicago, IL, Dec 7-9, 2014. Abstract and oral presentation.

## Grants

Bushby, P.A., **Shivley J.M**. Boehringer-Ingelheim and MSU-CVM Shelter Medicine Collaboration for Product Grant. Proposal for pharmaceutical donations. November 2022. Awarded $101,000.00 worth of veterinary product and pharmaceuticals.

Bushby, P.A., **Shivley J.M**. Zoetis and MSU-CVM Shelter Medicine Partnership Grant, Zoetis. July 2022. Proposal submitted for goods and pharmaceutical donations. *Still awaiting decision*.

Khaitsa, M., **Shivley, J.M.**, Gitau, G.K. Advancing One Health in the Global Environment Through Education Exchange. Submitted Jan. 2021. $10,000.00; declined.

Bushby, P.A., **Shivley J.M**. Spay Neuter Intake Diversion Grant, Petco Foundation. July 2020. Awarded for $20,000.00.

Brookshire C., Woodruff K., **Shivley J.M**., Bushby, P. Shelter Medical Diagnostic Center, PetSmart Charities. August 2017. Awarded $49,400.

Coole, J., Lewis, S., Max, A., Tran, M., **Shivley, J.M.,** Brookshire, C. Adjustable Magnetic Cuff for Veterinary Surgical Restraint. VentureCatalyst™ Stage 0 grant. November 2017. Awarded for $500.00.

Richardson, J., **Shivley, J.M**., Woodruff, K., Smith, D., Meyer, R. Transection as a Safe and Faster Means to Release the Suspensory Ligament during Canine Ovariohysterectomy. ORGS House Officer Clinical Research Grant. January 2017. Awarded for $2000.00.

Brookshire, C., Donnett, U., Woodruff, K., **Shivley, J.M.,** Loftin, C. Clinical trial to evaluate Tramadol as an antitussive for acute canine coughing in shelter dogs. ORGS House Officer Clinical Research Grant. December 2015. Awarded for $1857.00.

Donnett, U., Woodruff, K., **Shivley, J.M**. Intra- and Post-Surgical Complication Rates Observed During Routine Sterilization Surgery and the Development and Description of a Tool for Training Shelter Personnel in Accurate Pain and Post-Surgical Complication Identification. ORGS House Officer Clinical Research Grant. 2014. Awarded for $1840.00.

## Protocols

IACUC-22-496 (*Co-principal Investigator)* 2022

Protocol Title: Evaluation of Fecal Egg Reductions in Placebo vs Pyrantel-treated Cats and Dogs Entering Mississippi Shelters. Submitted December 2022. Currently cycle 1, comments received. In progress and ending approval.

IACUC-22-502 (*Principal Investigator)* 2022

Protocol Title: Sophomore Surgery Live Animal Surgery Lab. Took over as PI in December 2022. New submission in Dec. 2022. Approved and active as of Jan. 2023.

IACUC-21-278 (*Co-principal Investigator)* 2021

**Protocol Title:** Use of Barbed suture vs. traditional suture in ovariohysterectomy and the effect on incision site complications and surgical efficiency. Approved July 2021. Active.

IACUC-21-030 (*Co-principal Investigator)* 2021

**Protocol Title:** MSU-CVM Veterinary Campus/MSU-CVM VetAspire. Approved May 2021. Active.

## Projects and Other Creative Activities

### Reviewed, edited, and referenced 2023

* **Invited peer reviewer**: jvme-2023-0091, entitled "Is digital video recorded simulated suture skills testing associated with lower stress and anxiety than traditional in-person assessment for veterinary students?," for the Journal of Veterinary Medical Education. Reviewed June, 2023.
* Provided a letter of reference for Leah Bentley in her request to the MS Department of Education to receive an Expert Citizen License. July 2023.

Collaborator on Dr. Heidi Banse’s (Associate Dean for Educational Strategy, LSU-CVM) research project entitled “The Veterinary Workforce: Current Status and Future Needs.” I surveyed Mississippi veterinarians and provided data to Dr. Banse to collate with other states and institutions in August 2022. Abstract/Presentation. “Planning for the future: evaluating veterinary workforce demand”, accepted December 2022 for Catalyze 2023.

### Reviewed, edited, and referenced 2022

* Reviewed and edited a colleague’s manuscript, “Accredited Veterinary Diagnostic Laboratories in the United States and Canada Commonly Use Breakpoints Inconsistent With…” Reviewed November 2022.
* Reviewed and edited a colleague’s manuscript, “Normative data of companion animal ownership patterns in rural Mississippi…”. Reviewed September 2022.
* Reviewed faculty promotion application for Teaching Associate Professor, peer veterinary college.
* **Invited peer reviewer**: Book Proposal Review, Title: “Small Animal Soft Tissue and Orthopedic Surgeries”. For Erica Judisch, Executive Editor, Veterinary Medicine and Dentistry, Wiley.
* **Invited peer reviewer**: Manuscript ID JAALAS-22-000010, Title: “Care and use of Siamese fighting fish (Betta splendens) in the laboratory”, for Journal of the American Association for Laboratory Animal Science. Reviewed March 2022.
* **Invited peer reviewer**: Manuscript ID jvme-2022-0003, Title: “Teaching Tip: Practical Tips for Setting up and Running OSCEs”, for the Journal of Veterinary Medical Education. Reviewed Feb. 2022.

### Reviewed, edited, and referenced 2021

* **Invited peer reviewer**: Manuscript ID vetsci-1520508, Title: “Molecular genetic investigation of digital melanoma in dogs”, for Veterinary Sciences, MDPI. Reviewed December 2021. Published Jan. 2022.
* **Invited peer reviewer**: Manuscript ID jvme-2021-0024 and R1, Title: “A Qualitative Analysis of Clinical Year Veterinary Student Journal Entries for a Shelter Medicine Rotation", for the Journal of Veterinary Medical Education. Reviewed in March and May 2021. Rejected Oct. 2021.
* Reviewed and provided constructive critique on an interactive learning presentation on homeless animals and animal shelters in the US created by Jenny Burns, M.S.Ed., M.B.A.
* Edited and provided guidance to Dr. Shealy and his orientation materials for CVS Shelter Week.
* Edited and provided guidance for CVS topic rounds sessions for Dr. Alex Shealy.
* Reviewed and edited Dr. Brookshire’s, and his mentee Alex Jones’, antibiotic stewardship questionnaire for his MPH requirement.
* Provided letter of nomination for Dr. Sharon Grace for DAFVM Superior Faculty Teaching Award.

Created handout for veterinary teaching faculty addressing student-centered learning, Zones of Proximal Development and Fixed vs. Growth Mindset. April 9, 2020.

Reviewed, edited, and referenced 2020

* **Invited peer reviewer:** Manuscript ID animals-988487, Title: Changes in acute phase proteins in bitches after laparoscopic, midline and flank ovariectomy using the same method for hemostasis. For the journal, Animals. Published November 27th, 2020.
* **Invited peer reviewer**: Manuscript ID jvme-2020-0053, Title: Facing the “Fear of Failing" Veterinary Students in Clinical Rotations, for the Journal of Veterinary Medical Education. Accepted on August 25, 2020.
* **Invited peer reviewer**: Manuscript ID: animals-748961, Title: Impact of the timing of spay-neuter related to transport on disease rates in relocated dogs. For the journal, Animals. Published April 6th, 2020.
* Edited and provided guidance for CVS topic rounds sessions for Dr. Alex Shealy.
* Provided letter of nomination for Dr. Sharon Grace for Dean’s Pegasus Award for Teaching.
* Provided reference for Kendall Alexander, 3rd year veterinary student, for a critically appraised topic for her preventive medicine rotation. Discussed Demodex and treatment with isoxazolines.
* Reviewed and edited exams for Dr. Brookshire’s Veterinary Preventive Medicine course. Also reviewed instructional methods and curricular actives.

Collaborator on Dr. Brookshire’s AKC grant: Brookshire, C., Langston, & C., Seo, S. Development of clinically useful antibiograms representative of infections treated empirically and a One Health analysis of resistance patterns. AKC Canine Health Foundation Grant. Submitted August 2019.

Bushby, PA & **Shivley, JM**. Shelter and Animal Care Improvement Policy. *Shelter Medicine Program Policies and Procedures*, MSU-CVM. July 2019.

**Shivley, JM**. Interrogating Hope Theory. *Preprints* **2019**, 2019030214

Reviewed, edited, and referenced 2019

* **Invited peer reviewer**: Manuscript ID jvme-2019-0041, entitled "Development of Advanced Veterinary Nursing Degrees:  Rising Interest Levels for Careers Advanced Practice Registered Veterinary Nurses," for the Journal of Veterinary Medical Education. Published March 9, 2020.
* **Invited peer reviewer**: Manuscript ID jvme-2019-0038, entitled "Developing undergraduate interprofessional education initiatives to aid working and learning between veterinarians and veterinary nurses/vet techs," for the Journal of Veterinary Medical Education.
* Letter of support and recommendation for Tupelo Lee Humane Society to receive a grant from the Banfield Foundation for the CARE Clinic Project; for shelter animals to receive medical exams, health certificates, heartworm treatments, and surgery up to amputation.
* Reference for Dr. Rachel Frost, previous veterinary student seeking employment at District Veterinary Hospital.
* Reviewed and edited Dr. Brookshire’s AKC grant; Development of clinically useful antibiograms representative of infections treated empirically and a One Health analysis of resistance patterns.
* Reviewed and edited Dr. Jeb Cade’s teaching philosophy document.
* Reviewed and edited Ethicon suture grant; Dr. Bushby, Shelter Medicine Program grant to obtain Ethicon suture for educational purposes. Grant awarded in June 2019.
* Reviewed and edited Stanton Heartworm Proposal. Project Title: An evaluation of common diagnostic tests used as prognostic indicators in the treatment of *Dirofilaria immitis* and the efficacy of doxycycline and prednisone in reducing complications or deaths related to heartworm treatment. Smith, DR, Sullivant, A. Woodruff, K. 2019.
* Reviewed and edited syllabi for spay/neuter elective and CVS shelter week experience.
* Reference for student, Jessica Zher, on externship application to WRAH.
* Direct, in-depth feedback for student, Julie Grisham, regarding performance on CVS.

**Shivley, JM**. (2018, Feb. 9th). Principles of Wound Closure [online blog]. Retrieved from <https://www.innovativesutures.com/principles-of-wound-closure/>

Reviewed, edited, and referenced 2018

* **Invited peer reviewer**: entitled “Lifelong Learning for Veterinarians” for Veterinary Sciences, MDPI.
* Letter of reference for Anna, Danish extern.
* Reference for Shannon Quillian’s (recent graduate) resume for job search.
* Letter of reference and surgical validation for Danish extern student taking the ECFVG.
* Reviewed and edited final exam questions for CVS rotation.
* Reviewed and edited syllabi for Shelter Medicine Week and for Shelter Surgery Elective.
* Reviewed and edited Christina Loftin’s application for the 2018 Community-engaged Learning Fellow Program.

Provided input on curriculum design. She was successfully awarded a spot in the program.

* Reviewed and edited Dr. Brookshire’s appeal to the ABVP board.
* Reviewed and edited Carly Wigley’s 4th year student presentation for her surgery rotation.
* Letter or reference for Christina Loftin for VMX Nurse Leadership Scholarship.

Adjustable Magnetic Cuff for Veterinary Surgical Restraint 2017-2018

Advisor/collaborator with biomedical engineering students, designing a disinfectable and adjustable

paws-down restraint device for surgical restraint. Project exceeded Stage 1 of the VentureCatalyst™

program. Advised for their senior project, formal presentation, and poster abstract presentation.

**Shivley, J.M.**; Brookshire, C.W.; Bushby, P.A.; Woodruff, K.A. Student Learning Experiences and Outcomes in The Mississippi State University College of Veterinary Medicine Shelter Medicine Program. *Preprints* **2017**, 2017100151 (doi: 10.20944/preprints201710.0151.v1).

Reviewed, edited, and referenced 2017

* **Invited peer review** for JAVMA “Risk factors for temporary tracheostomy following.

Brachycephalic airway surgery in dogs (2007-2016)”.

* Reviewed and edited PCI spay/neuter grant proposal for Dr. Bushby.
* Reviewed and edited summer research student presentation for Dr. Brookshire and his student Brandie.
* Reviewed and edited poster presentation for Christina Loftin raccoon study.
* Reviewed and edited abstraction presentation for Dr. Brookshire’s raccoon study.
* Reviewed and edited grant proposal for Dr. Brookshire for Pet Smart Charities Shelter Medicine laboratory.
* Provided reviews and references for 2 ABVP candidates.

# Service

## Consultations 2023

* Consulted with Dr. Cooper, veterinarian in Greenwood, MS, re: euthanasia in animals shelters including policy, guidelines, and procedures. Provided documentation and support via email as well.
* Consulted with Abby Hawkins, first year vet student interested in wildlife and zoological medicine.
* Consulted with Kayla McConkey, LVMT with Tennessee College of Veterinary Medicine Shelter Medicine Service. They are looking to re-vamp anesthesia and spay/neuter protocols and wanted expert opinion on what we currently use.
* Consulted with Dr. Tiffany Alford on a challenging feline OVH case.
* Consulted with Dr. Emily Curry, Clinical Assistant Professor of Shelter Medicine and Surgery, Purdue University CVM, re: Purdue’s Primary Care Vision Task Force and how we educate our students on the Shelter Medicine Program and Community Veterinary Services and how this may be translated to Purdue’s veterinary curriculum.
* Consulted with Dr. Laura Boltz, Assistant Professor in the Department of Sociology, MSU, who received a grant to create a mobile mock home for experiential learning and to be used in courses for the Trauma-Informed Child Advocacy certificate. Discussed MSU-CVM’s history and use of a mobile unit and strategies and logistics to implement such a program.

## Consultations 2022

* Consulted with John Dascanio, VMC, DACT, DABVP (Equine Practice) re: Texas Tech University School of Veterinary Medicine’s desire to start a mobile small animal veterinary clinic. Discussed MSU-CVMs history and experience with the mobile set up and gave advice for their program.
* Consulted with Dr. Marian Swindell, a social worker professor at the Meridian campus and volunteer with Roadside Rescue Network, re: capacity, foster networks, spay/neuter, transportation, and local veterinary support.
* Consulted with Angie Young re: parvovirus, vaccine failures, appropriate vaccine storage and use, vaccine guidelines for shelter animals, and testing for parvovirus in puppies.
* Consulted with Kala Durham with Pals of Paws Society re: a hoarding situation in her county, setting up spay/neuter assistance, and advice on interfacing with ASPCA.
* Consulted with Kathryn Lancaster of Indianola Animal Shelter re: rat infestation and proper heartworm treatments for shelter animals.
* Consulted with Jacob Kay re: test writing strategies used on standardized testing and test-taking strategies for those same exams.
* Consulted with Dr. Tracey Jaffe re: her survey to animal shelters and rescue groups and how the Shelter Medicine Program provided service to these groups through the COVID-19 pandemic.

## Consultations 2021

* Consulted with Dr. Randy Cooper re: colony of local cats he is managing. Provided information and recommendations on feline calicivirus, including control and treatment measures.
* Consulted with Breanna Lynch and the CVF club here at MSU-CVM regarding their veterinary mission trip in December to Dominical Republic. Provided several hours of face-to-face time preparing them for their trip.
* Consulted with our Epidemiology department here at MSU-CVM on how to effectively capture audio/video from a variety of sources for student learning projects.
* Consulted with a team from the University of Arizona CVM, including their Senior Coordinator of Academic Programs and their Associate Dean, regarding spay/neuter programs, mobile unit programs, and how to develop the curriculum around such programs to facilitate student learning.
* Consulted with Kathryn Lancaster with the Indianola Animal Shelter regarding best practice sanitation for kennels and runs
* Consulted with Dr. Becky DeBolt, Clinical Assistant Professor of Shelter Medicine at the University of Tennessee College of Veterinary Medicine, regarding teaching spay/neuter techniques and the research and technique behind sharp transection of the ovarian suspensory ligament.
* Consulted with Kay Conley regarding her Masters Program at Clemson and which education courses she should consider taking.
* Consulted with Dr. Marc Seitz regarding his promotion packet with MSU-CVM
* Consulted with Dr. Blane Cooper (Greenwood) on how to humanely trap/capture wild dogs and aggressive dogs in the city
* Consulted with Dr. Gina Welton in Iuka, MS regarding intake protocols (vaccine and deworming) for small animal rescue groups.

Consultations 2020

* Consulted with Dr. Brenda Sumrall, veterinarian associated with animal shelter in Hattiesburg, MS, re: Distemper outbreak. Discussed transmission and incubation, disease management, disinfection, transport considerations, and risk assessment/mitigation.
* Consulted with Dr. Julie Funk and Dr. Jim Maciulla, Dean and Associate Dean at Arizona State University CVM regarding our shelter medicine program. They are particularly interested in mobile units, and we discussed everything from fine-grained details of running a mobile program to teaching pedagogy.
* Consulted with Peter McGinn, current third-year veterinary student, regarding his desire to be trained in veterinary medical education and teaching pedagogy. He is very interested in returning to academia, so I spent time discussing my graduate program with him and pathways back to academia for teaching.
* Consulted with Mandy Wallace, DVM, MS, DACVS, from UGA-CVM regarding their junior surgery spay/neuter course. She is the course coordinator there; I provided mentorship and advice on mobile vs. stationary clinics, surgical case load, number of staff and doctors needed, teaching pedagogy, and the general running of a spay/neuter program.
* Consulted with Jesse Grady, DVM, MS on creating learning objectives and aligning those objectives with lecture material and with test questions.
* Consulted with Kris Appler, DVM, MPH, Dipl. ACVPM regarding compiling together teaching materials for medics at Fort Bragg. Shared teaching materials (pdfs, PowerPoints, and videos) centered around suture and basic surgical skills.
* Consulted with Tiffany Alford, 2019 grad from MSU-CVM, regarding a challenging unilateral cryptorchid surgery. Sent instructional materials and then video chatted and walked her through the challenging parts of the surgery.
* Consulted with Lydia Shafer, 2015 grad from MSU-CVM. She was hired as the medical director for her county’s human shelter and needed consultation on anesthetic protocols, efficient surgery, HW prevention, post-op pain control.
* Consulted with Anabel Debruhl, 1st year veterinary student, on future career opportunities and set up mentoring activities for her.
* Consulted with Dillon Lechack, undergraduate student in Arkansas, regarding his veterinary school interview and specific instructions and guidance on how to improve; also discussed his options for the future.

Consultations 2019

* Consulted with student, Kristen Frank re: her future career options in shelter medicine
* Consulted with BR Hawkins with the MS Dept. of Corrections on spay/neuter of animals in the care of incarcerated veterans. Organized and coordinated spay/neuter of those animals.
* Consulted with Gaila Oliver, a cat rescuer in Leland, MS, on the care, capture, transport and spay/neuter of community feral cats. Coordinated and led a spay/neuter day for her.
* Consulted with Dr. Cooper Brookshire regarding effective instructional design of the course he will be leading in the fall, Preventive Medicine, for the DVM curriculum.
* Consulted with Jaime Grant, director of Cleveland animal hospital, regarding chronic diarrhea and some deaths in cats in her shelter.
* Consulted with Laine Johnson, new director of Greenwood animal shelter, regarding standards of animal care in shelters, how to increase live release and decrease intake, and needed improvements for her shelter.
* Consulted with Adam Leath, Director of animal services for Volusia County, FL, regarding mobile unit design for spay/neuter services.
* Consulted with Ermalinda Brosseau, 1st year student, regarding effecting teaching and learning strategies as well as effective studying and learning while maintaining wellness as a student.
* Consulted with K. Lancaster regarding shelter intake, capacity for care, and how to decrease population numbers and increase live release rate.
* Consulted with Carley Bardwell, 4th year student applying for externships. Provided advice for locations, reference on her CV.
* Consulted with Dr. Jeb cade re: survey and study design for survey-based project involving CE for practitioners and potential future publication.
* Consulted with Susan, director of Hernando Animal Shelter, regarding different forms of heartworm treatment and treating heartworms in the shelter setting.
* Consulted with Devon Smith, Executive Director, Saint Frances Animal Center, regarding anesthetic protocols, MASH clinics, and HQHVSN techniques.
* Consulted with Maureen Stanton concerning her dog Fitz and necropsy.
* Consulted with veterinarian Eric Gelsleichter on our published paper, sharp transection of the suspensory ligament, and other HVHQSN techniques.
* Consulted with Monica Mock, DeSoto Animal Shelter, regarding air conditioning in their dog kennels.

Consultations 2018

* Consulted with and assisted Dr. Bushby in obtaining surgical methods pictures for a chapter he is authoring in a soon to be published shelter surgery textbook.
* Consulted with Kathryn Lancaster, director of Indianola animal shelter, on heartworm treatment protocols in shelter animals.
* Consulted with Kate Hopper, Director of the UC-Davis small animal hospital, on the design and implementation of the MSU-CVM Shelter Medicine Program.
* Consulted with 5 separate DVMs outside of MSU-CVM regarding surgical management and appropriate spay/neuter guidelines, including anesthetic and surgical protocols, pediatric spay/neuter, and acceptable peri-operative complication/mortality rates in HQHVSN.
* Consulted with Tupelo animal shelter on significant welfare related issues and how to maintain standards of care for shelter animals.
* Consulted with K. Lancaster at the Indianola animal shelter on appropriate care of animals during animal transport operations.
* Consulted with two 4th-year students and provided mentorship and advice in excellently teaching veterinary students in their future career, providing advice in spay/neuter training, in communications and leadership management of shelter workers, and in upcoming job careers in large metropolitan animal shelters.
* Consulted with a 4th-year student on externship opportunities and how to find more spay/neuter experience.
* Consulted with Dr. Grady and a team of doctors on sophomore surgery lab design and implementation including contacts and documentation on animal transport and provided support for implantation of changes made to sophomore surgery lab.
* Consulted with Sarah Phillips, 2nd year student, of reference and mentorship for a summer research project.

Consultations 2017

* Consulted with 4 separate DVMs outside of MSU-CVM regarding surgical management of 14 separate surgical cases, including spay/neuter, hemorrhagic complications, nephrectomy, cystotomy, MCT removal, Velpeau sling, wound reconstruction, and cryptorchid neuter.
* Consulted with the Big Fix Clinic with MS-SPAN and provided feedback for improvements on the spay/neuter operation.
* Consulted with Booneville animal shelter on capacity of care and how to maintain this standard.
* Consulted with Clarksdale animal shelter on animal care and treatment options for various disease conditions commonly encountered in shelter medicine.

## Continuing Education Presentations

Pet Smart Charities Shelter Education Conference April 2018

A unique program for animal shelter workers developed and provided by the Shelter Medicine Program of MSU-CVM. 168 attendees from 5 different states. 16 hours of CE provided.

Lectures delivered:

**Management of pediatrics and spay/neuter**

1-hour lecture describing pediatric castration and the perioperative care of the pediatric patient. Assessed recent literature surrounding controversies in pediatric spay/neuter.

**Transport considerations for dogs**

1-hour lecture covering recommendations for the management of canines when transporting for life-saving surgery, treatment, or adoption services.

## Professional Committees

MSU-CVM Curriculum Committee 2023-present

MSU-CVM Academic Standards and Professional Ethics Committee 2023-present

MSU-CVM FIST Committee (Funding for International Student Travel) 2022-present

MSU-CVM Non-Tenure Track Promotion Committee 2021-present

MSU-CVM Honor Code Board 2021-present

Mississippi Animal Rescue Team (MART) 2014-present

CVM Incident Management Team, Shelter Division 2014-present

MSU-CVM Recruitment Team-Arkansas 2019-2023

MSU-CVM Admissions Committee 2020-2023

MSU-CVM Envoy Selection Committee 2021

Deans Pegasus Staff Awards Committee 2018

Teaching and Learning Strategic Planning Group 2018-2020

Clinical Skills Lab Task Force 2017-2020

## Professional Organizations and Societies

Honor Society of Gamma Sigma Delta 2017-present

Mississippi Veterinary Medical Association 2008-present

American Veterinary Medical Association 2008-present

Honor Society of Phi Zeta 2008-present

Honor Society of Phi Kappa Phi 2018-2020

Arkansas Veterinary Medical Association 2010-2013

Colorado Veterinary Medical Association 2009-2010

Denver Area Veterinary Medical Society 2009-2010

## Professional Activities

Vet Aspire September 2023

 Hosted and coordinated Vet Aspire students to visit the Shelter Medicine

 program and observe spay/neuter surgeries and behind the scenes of HQHVSN.

CVM Annual Research Day August 2023

 Judge for the VetMed Research Scholars Oral Presentation sessions.

Vet Camp May/June 2023

Mentored and coordinated with Vet Camp leaders to develop activities

and opportunities for campers. Coordinated with shelter program for campers

to learn about importance of spay/neuter, and observation of HQHVSN clinic.

MSU-CVM Graduate Faculty Level 2 2022-present

ECFVG CPE 2014-2023

 Coordinate and oversee post-op care of surgical patients, participated in

grading of small animal surgery and medical management sections.

Maintain training for sessions.

Vet Camp May/June 2022

Mentored and coordinated with Vet Camp leaders to develop activities

and opportunities for campers. Coordinated with shelter program for campers

to learn about importance of spay/neuter, and observation of HQHVSN clinic.

COE accreditations visit 2021

 Designed and edited posters detailing the Shelter Medicine’s contributions

to teaching, service, and research. Presented the shelter medicine

team to the COE site team.

Veterinary Mission Trip to Dominican Republic December 2020

 DVM mentor for MSU-CVM Christian Veterinary Fellowship’s veterinary

 10-day mission trip to the DR. Cared for 365 animals in 5 different villages.

Oktibbeha County Humane Society On-call Services 2020-pres

 On-call veterinarian every 6 weeks for OCHS. Provide consultative care

 and health recommendations for weekend on-call duty.

MSU-CVM Recruiting team 2019-pres

 Joined the MSU-CVM Recruiting Team. Received 2 days’ worth of training under

the guidance of Dr. Richard Meiring and the Academic Affairs staff. Territory is

Arkansas colleges, pre-veterinary advisors, and Arkansas VMA.

Makerere University Veterinary students November 2019

 Hosted veterinary students from Africa’s Makerere University at the stationary

 Spay/neuter clinic on campus. Scrubbed in these students and walked them through

 HQHVSN techniques and instructed them in shelter medicine surgery principles.

Vet Camp June 2019

Coordinated with Vet Camp leaders and Shelter medicine program for students

on day camp and overnight camps to observe spay/neuter surgeries,

learn about importance of spay/neuter, and observation of HQHVSN clinic.

Interviews for veterinary student candidates. February 2019

Vet Aspire February 2019

 Hosted and coordinated Vet Aspire students to visit the Shelter Medicine

 program and observe spay/neuter surgeries and behind the scenes of HQHVSN.

MSMS Science Carnival 2014-2019

Participate in the yearly science carnival/fair in conjunction with Mississippi

School of Math and Science (MSMS) hosted at the Mississippi University

for Women. Over 1,000 school age children attend every year, providing

and excellent avenue for community outreach and DVM promotion.

Vet Aspire October 2018

 Hosted and coordinated Vet Aspire students to visit the Shelter Medicine

 program and observe spay/neuter surgeries and behind the scenes of HQHVSN.

Veterinary Technician Anesthesia Skill Training June 2018

Developed relationship and collegiality with Dr. Mandy Kohler and the Veterinary

Technology program to provide them the shelter medicine building, animals,

and surgeons for 3 full days in order for vet tech students to learn anesthesia

threshold skills. In three days, we hosted 27 students and performed 50 surgeries/

anesthetic events.

Vet Camp

Coordinated Vet Camp students to visit the Shelter Medicine program. Performed June 2018

spay/neuter surgeries, taught students about importance of spay/neuter

and allow them to observe behind the scenes of HQHVSN.

Vet Aspire April 2018

 Hosted and coordinated VetAspire students to visit the Shelter Medicine

 program and observe spay/neuter surgeries.

Interviews for veterinary student candidates. January 2018

Community Veterinary Services 2017-present Joined the team who provides on-call services and care to animals

 who are boarding or hospitalized over the weekend while with CVS.

Clinical Skills Lab Task Force 2017-2020

 Task Force to research and implement clinical skills laboratory at MSU-CVM

 Developed examples of 3 separate of basic surgical skill stations, how

 to implement them, and how to assess the students.

Community Veterinary Services/Shelter medicine experience 2013-2019

 Provide free health services and consultations to shelters in MS.

Animals in Focus 2014-2019

Participate in human-animal bond curriculum for 1st-5th grade levels incorporating

animal involvement in the classroom; Participated in outreach trips to the Palmer

Home in Columbus, MS. In 2018, was a part of the team who incorporated

a service-learning framework to the AIF MSU-CVM veterinary student experience.

ECFVG BSCE test writing and review 2014-2019

Authored and reviewed test questions for the Basic Science Exam for the

Educational Commission for Foreign Veterinary Graduates (ECFVG).

Disaster Response Deployment August 2017

 Mobilized the mobile veterinary hospital and deployed with a strike team

to provide veterinary support to the ATF explosives detection K-9 team and

integrated with MARSOC in Greenwood, MS. Went beyond the call of duty

to provide additional support to canine handlers, ATF officers, and military

personnel. Recognized across the state and nation.

Disaster Response Preparation August 2017

Provided direction and leadership in preparing the emergency response

cache and shelter team for possible deployment to Florida after hurricane Irma.

Disaster Response Training Exercise March 2016

 In conjunction with the University of Florida, conducted a mass training exercise in

 Bay County, FL. Trained on integrating with other agencies. Set up, oversaw, and

 operated the onsite mobile veterinary hospital.

Interviews for veterinary student candidates. January 2016

# Professional Development

Education Day Event May 2022

 Hybrid continuing education event focused on teaching in Health

 Sciences, course rigor, and interactive poster sessions focused on

 Veterinary medical education.

 Univ. Of Minnesota CVM

AAVMC Leadership Academy 2021-2022

 The AAVMC Leadership Academy fosters and enhances leadership

development of individuals currently aspiring to leadership roles,

 as well as those currently serving in leadership roles. The AAVMC

Leadership Academy experience is offered annually to a selected cohort of

current and future institutional leaders, consisting of 1 person from

each AAVMC institutional partner.

Mississippi 5th Annual Suicide Prevention Symposium Sept 2021

 5 CE hours total; Suicide Prevention for Medical Settings

and Self-Care for Clinicians

MVMA Virtual Veterinary Webinar Series Jan-May 2021

 Chronic Wasting Disease; Feral Hob Surveillance

 Controversies in Oncology: mast cell tumors

 Top 10 Diseases Affecting Small Ruminants

 Surgical & Post-operative Pain Management

 Practical Clinical Pathology

AVMA training for the ECFVG examination August 2020

Cultural Sensitivity and Anti-Harassment Webinar

 General Training Webinar for CPE

 Surgery Specific Training Webinar for CPE

Diversity and Inclusion in Veterinary Medicine August 2020

 Online course (certificate program) delivered by Purdue University.

Included ~15 hours of learning about diversity, equity, and inclusion,

specifically in veterinary medicine. Completed four, 1 hr learning activities

hosted by the AAVMC, a capstone paper, and 4 hours of community

 service. AAVMC training included topics such as microaggressions, religious

 literacy, black lives matter in veterinary medicine, and Gen Z as vet

 school applicants.

Online Instruction 101 May 2020

 One-month course for best practices in online instruction.

 Addressed critical issues in online delivery that are key elements

 to quality online instruction. Received Center for Teaching and

Learning certification for distance instruction.

Center for Teaching and Learning, Webinar Events April 2020

 Working in the New Virtual World, April 9th

 Effective Lecturing in Your Online Course, April 14th

 Active Learning in Your Online Course, April 16th

Maddie’s Fund/UC Davis Webinar April 2020

 COVID-19 Spay/neuter and Vaccine Clinic Preparedness Guide

 Subsequently initiated/led discussions with our shelter program re: this topic.

McGraw Hill Webinar May 2020 A Faculty-led Webinar on Remote Instruction in Medicine

VETS 1.0 Workshop

Veterinary Educator Teaching and Scholarship workshop. June 2019

 Davis, CA. Topics included: interactive learning experiences,

writing learning objectives, constructing and

 deconstructing exams, and educational alignment.

Building the Literature Review March, 2018

 Center for Teaching and Learning Seminar on building a lit review and

 “joining the scholarly conversation”.

Rhabideau Lecture on Teaching Excellence April, 2017

 Lecture, “Mountain Climbing: Passion and Pursuit for Effective Teaching”

Exploring excellent habits of excellent teachers.

Small Group Leadership Seminar 2016

 Seminar: provided supervisors with tools to enhance their leadership skills.

Grant Writers’ Seminars and Workshops 2016

 Writing Winning Grant Proposals. Seminar; grant writing and preparing to

write successful grants to any agency.

CITI Courses 2016-2017

 Financial Conflict of Interest

Social/Behavioral/Humanistic Research Investigators and Key Personnel

Responsible Conduct of Research

Working with Cats in Research Settings

Working with Dogs in Research Settings

Working with the IACUC

## Continuing Education

MVMA Winter Meeting Starkville, MS, 2023

ACVS Symposium Portland, OR, 2022

MVMA Winter Meeting Starkville, MS, 2022

MVMA Virtual Webinar Series Live-streamed, 2021

PetSmart Charities Shelter Medicine Symposium Live-streamed, 2020

MVMA Winter Meeting Starkville, MS, 2020

Biennial Conference of the Teaching Academy of the Davis, CA, 2019

West Region Colleges of Veterinary Medicine

MVMA Winter Meeting Starkville, MS, 2019

Pet Smart Charities Shelter Education Conference Starkville, MS 2018

ABVP Symposium Atlanta, GA, 2017

ABVP Symposium San Antonio, TX, 2016

MVMA Winter Meeting Starkville, MS, 2014-16

North American Veterinary Conference Orlando, FL, 2015

Arkansas Veterinary Medical Association State Meeting Hot Springs, AR, 2013

Pfizer CE Conference Branson, MO, 2012

AAHA Conference Denver, CO, 2012

Dave Ramsey’s Entreleadership Conference Rogers, AR, 2010

ACVS Symposium Washington, D.C., 2009

## Selected Graduate Coursework 2016-2019

Student Development Theory

HED 8523

In-depth overview of theories of student development in higher education

Community College Teaching

CCL 8173

Comprehensive preparation for teaching: teaching strategies centered on outcomes and experiential learning, assessment of learning, and job-related responsibilities

Effective Instruction

EDS 8623

An examination of the theories, trends, best practices, issues, challenges, and complexities pertinent to teaching and learning in secondary classrooms

Psychological Research

PSY 8513

 Practicum in the techniques of planning and execution of various areas of psychological research

Foundations of Educational Psychology

EPY 8223

The role of psychology in a changing context of organized education; the learner, content, structure, and management of the learning situation; studies of persistent problems

Case Studies in Research Ethics

CVM 8101

Practical application of research ethics using case scenarios to direct discussions on data ownership plagiarism, authorship, conflict of interest, and other regulatory compliance related issues.

Clinical Sciences Journal Review

CVM 8081

Graduate students and faculty in the Clinical Sciences Department will review and study current and relevant peer-reviewed journal articles to enhance the learning and training of the graduate students

Essentials of Research Practice and Profession

CVM 6021

 An introduction to fundamental research methodologies, compliance, communication, and basic research ethics to prepare students for becoming a member of a research team

Statistical Methods

ST 8114

Descriptive statistics; sampling distributions; inferences for one and two populations; completely random, block, Latin square, split-plot designs; factorials; simple linear regression; chi-square tests