

Chika C. Okafor

Department of Biomedical & Diagnostic Sciences
College of Veterinary Medicine, the University of Tennessee Institute of Agriculture
2407 River Drive Knoxville, TN 37996
Tel: 865-974-5611 Fax: 865-974-5640 Email: okaforch@utk.edu

Education

University of Nigeria	DVM	2003
Michigan State University	MS, Food Safety	2008
Michigan State University	PhD, Epidemiology	2011

Board Certifications

American College of Vet. Preventive Medicine	Diplomate	2014
	DACVPM (Epidemiology)	2015

Employment

Grad. Research Assistant	Michigan State University, East Lansing	2006 – 2008
Grad. Research Associate	Michigan State University, East Lansing	2008 – 2011
Post-Doctoral Fellow	University of Guelph, Ontario	2011 – 2015
Asst. Prof., Tenure-track	University of Tennessee, Knoxville	2015 – Present

Research Awards and Honors

▪ Clinician of the Year Award by CVM UNN	2003
▪ The Robert G. Schirmer Post-Doctoral Fellowship Award	2007
▪ International conference travel award to Japan by IAP	2008
▪ The Phi Beta Delta honor society	2008
▪ The Robert G. Schirmer Post-Doctoral Fellowship Award	2009
▪ Summer Food Systems Fellowship by CVM MSU	2009
▪ CRWAD Conference travel award by LCS CVM MSU	2010
▪ Travel Trainee Award to present research studies by AAVLD	2011
▪ MSU graduate school dissertation completion fellowship	2011

Society Memberships

▪ American Association of Bovine Practitioners	2010 – Present
▪ United States Animal Health Association	2011 – Present
▪ Int'l Society for Veterinary Epidemiology and Economics	2012 – Present
▪ Assoc. for Veterinary Epidemiology and Preventive Medicine	2012 – Present
▪ American College of Epidemiology	2014 – Present
▪ American College of Veterinary Preventive Medicine	2014 – Present
▪ Conference of Research Workers in Animal Diseases	2018 – Present

Description of Positions and Employment

Public Health Veterinarian

Ministry of Agriculture, Abia & Delta states, Nigeria Feb. 2004 – Dec. 2005

- Monitored the occurrence of zoonotic diseases such as Tuberculosis and Cysticercosis in food animals through slaughter meat inspection and communicated laboratory-confirmed cases to the appropriate government agencies
- Worked with staff, external agencies, and community leaders in community educational campaign on proper food hygiene

Graduate Research Assistant

Michigan State University (MSU), East Lansing, MI, USA Jan. 2006 – Jul. 2008

- Developed a novel on-site diagnostic assay for Johne's disease diagnosis in collaboration with the Michigan State University Diagnostic Center for Population and Animal Health and authored the manuscript in a peer-reviewed journal
- Presented research results (4 oral presentations, 2 poster presentations) at both national and international scientific conferences

Graduate Research Associate

Michigan State University (MSU), East Lansing, MI, USA Aug. 2008– Oct. 2011

- Collaborated with multiple government agencies and food animal stakeholders to enhance the eradication of tuberculosis in Michigan cattle
- Successfully managed epidemiological studies aimed to improve tuberculosis surveillance and authored (first-author) 4 manuscripts in peer-reviewed journals
- Provided strategic recommendations to government agencies that have been adopted and are currently in use
- Communicated research results (8 oral presentations, 2 poster presentations) at both peer-reviewed (scientific) and stakeholder information (non-scientific meetings)
- Wrote 2 competitive research proposals that were funded through the university
- Taught the following graduate courses:
 - a. Issues in Pre-Harvest Food Safety (VM 817)
 - b. Veterinary Epidemiology (VM 533)
 - c. Veterinary Integrative Problem Solving (VM 532)
- Served in several departmental, college, and university committees

Post-Doctoral Veterinary Epidemiologist*University of Guelph*, Guelph, ON, Canada

Oct. 2011 – Jan. 2015

- Coordinated and conducted research on:
 - a. Associations between nutrition and lower urinary tract diseases of cats and dogs
 - b. Reporting of observational studies in food and companion animals
- Published and presented results in peer-review journals and scientific conferences respectively
- Taught a course, Epidemiology & Statistics (POPM 6520)
- Mentored students in the design and analysis of epidemiological studies
- Served in departmental and college committees

Assistant Professor, Tenure-track*University of Tennessee*, Knoxville, TN, USA

Jan. 2015 – Present

- Conduct research on:
 - a. Infectious and Zoonotic Disease Epidemiology of Food and Companion Animals.
 - b. Pre-Harvest Food Safety Issues of Animal Origin (Stewardship in antimicrobial use)
- Teach the following graduate courses:
 - a. Veterinary Public Health and Epidemiology (VMP 833)
 - b. Descriptive and Applied Epidemiology (VM 504)
 - c. Epidemiology of Bacterial & Parasitic Food Borne Pathogens (CEM 508)
- Mentor students in Food Safety, Epidemiology, and Public Health
- Provide professional service to the University, state, nation, and beyond

A: Teaching, Creative Achievements, and Scholarship

Teaching Philosophy

Equipping students with knowledge to advance the diagnosis, treatment, prevention, and control/eradication of diseases in populations

Teaching Commitment and Experience at UTK

<i>Course #</i>	<i>Title of Course</i>	<i>Subject Taught</i>	<i>Course Coordinator (years)</i>	<i>Year(s)</i>	<i>Lec Hours per year</i>	<i>Lab Hours per year</i>	<i>Average class size (students)</i>
<i>VM 833</i>	Epidemiology & Evidence Based Veterinary Medicine	Epidemiology & Evidence Based Veterinary Medicine	2016, 2017	2016, 2017	20	4	85
<i>CEM 508</i>	Epidemiology of Bacterial and Parasitic Food Borne Pathogens	Epidemiology of Bacterial Food Borne Pathogens	2016, 2018	2016, 2018	6	0	11
<i>CEM 504</i>	Descriptive & Applied Epidemiology	Epidemiology	-	2015, 2016, 2017, 2018, 2019	18.5	2	8
<i>VM 837</i>	Food Hygiene and Zoonoses	Food Hygiene	-	2015, 2016, 2017, 2018	18	1	85
<i>CEM 509*</i>	Pre-Harvest Safety of Foods of Animal Origin	Pre-Harvest Food Safety	2018	2018		0	8
	ABLE	ABLE	-	2016, 2017, 2018	1	0	85
<i>VMP 833</i>	Veterinary Public Health & Epidemiology	Clinical Epidemiology & Food Hygiene	2019	2019	32	0	170 (in 2019)

* Developed this online course from scratch

Invited Teaching from another University since joining UTK

- Issues in Pre-Harvest Food Safety (VM 817, Online) Spring 2016, 2017, 2018
Developed a module in VM 817 and taught MS and Doctoral students
Assessed/graded students' understanding via quizzes and research papers

Teaching Commitment and Experience at Other Universities

@ Michigan State University

- Issues in Pre-Harvest Food Safety (VM 817, Online) Spring 2011-2014
Developed a module in VM 817 and taught MS and Doctoral students
Assessed/graded students' understanding via quizzes and research papers
- Veterinary Epidemiology (VM 533) Fall 2010
Organized and taught DVM students the basic principles of epidemiology
- Veterinary Integrative Problem Solving (VM 532) Fall 2010
Facilitated and mentored DVM students on solving clinical cases

@ University of Guelph

- Epidemiology & Statistics (POPM 6520) Fall 2012
Developed and taught introductory statistical methods in epidemiology to MS, MPH, and PhD students

Students Trained (Primary Mentor)

John Eddie Ekakoro	CEM	BDS	UTK	PhD	Spring 2016 – Fall 2018
Simone Godwin		Class of 2020	UTK	MPH	Spring 2017 – Spring 2019

Students Trained (Secondary Mentor)

Amal Humidat	CEM	BDS	UTK	MS	Spring 2016 – Summer 2017	
Sam Collins		CEM	BDS	UTK	PhD	Spring 2016 – Summer 2019

Students In-Training (Primary Mentor)

Kaila Bess	CEM	BDS	UTK	MS	Fall 2019 and ongoing
Stephanie Bridges		Class of 2020	UTK	DVM	Fall 2016 and ongoing
Simone Godwin		Class of 2020	UTK	MPH	Spring 2017 and ongoing
Regan Nebenhaus		Class of 2021	UTK	DVM/MPH	Fall 2017 and ongoing
Blake Andrews		Class of 2022	UTK	DVM	Fall 2018 and ongoing
Jennifer Lord	CEM	MPH	UTK	MPH	Fall 2018 and ongoing
Chelsey Avina		Class of 2023	UTK	DVM	Fall 2019 and ongoing

Students In-Training (Secondary Mentor)

Bree Dell	CEM	BDS	UTK	PhD	Fall 2017 and ongoing
Vincent Dore	CEM	BDS	UTK	PhD	Fall 2018 and ongoing

Teaching Improvement Workshops/Conferences Attended

- **CVM Master Teacher Program** 2015 – Present
 - Several teaching improvement seminars offered throughout the year
- **UT New Faculty Teaching Institute (NFTI)** Aug 5- 7, 2015
 - Workshop on quality teaching preparation and delivery

- **UT OIT training for Canvas®** July 29, 2016
 - Seminar on basis of Canvas® Learning Management System.
- **Veterinary Educators Conference, Calgary Canada** June 19-21, 2016
 - Exchanged ideas on how to communicate abstract concepts to clinical students.
 - Learned tips to improve course assessment
- **UT OIT training for online course development** 2017
 - Learned valuable tips on using Canvas, Camtasia, and PowerPoint for improved course delivery
- **UT Peer Teaching Evaluations** 2017

B: Research, Creative Achievements, and Scholarship

Interests

My core research interest is surveillance of patterns of antimicrobial use/resistance in veterinary medicine. I use statistical analysis of large datasets to understand/prevent animal diseases (e.g., bovine anaplasmosis) and pre-harvest food safety issues (salmonellosis, colibacillosis) associated with the use of antibiotics. My long-term goal is to improve stewardship of antimicrobial use in food animals and veterinary medicine.

Peer-Reviewed Publications

† indicates mentoring authorship

‡ indicates co-mentoring authorship

* indicates manuscripts I provided statistical support, interpretation and final editing

1. Ihedioha, J. I., **Okafor, C.C.** and Ihedioha, T.E. (2004). The haematological profile of the Sprague-Dawley outbred albino rat in Nsukka. *Animal Res Intl*, 1 (2) 125-132.
 - Conducted the study as a requirement for my DVM.
2. **Okafor, C.C.**, Grooms, D., Alocilja, E., Bolin, S. (2008). Fabrication of a Novel Conductometric biosensor for detecting *Mycobacterium avium* subsp. *paratuberculosis* antibodies. *Sensors* 8, 6015-6025.
3. **Okafor, C.C.**, Grooms, D.L., Bruning-Fann, C.S., Averill, J.J., and Kaneene, J.B. (2011). Descriptive epidemiology of bovine Tuberculosis in Michigan (1975-2010): lessons learned. *Vet Med Intl*, vol. 2011, Article ID 874924, doi:10.4061/2011/874924.
4. **Okafor, C.C.**, Grooms, D.L., Bolin, S.R. and Kaneene, J.B. (2012). Detection of interferon- γ response to tuberculosis in blood collected at commencement of exsanguination at slaughter from cattle sensitized with *Mycobacterium bovis*. *Am J Vet Res*, Vol 73, No. 6, 847-853.
5. **Okafor, C.C.**, Grooms, D.L., Bolin, S.R., Gravelyn, T.D., and Kaneene, J.B. (2013). Effect of transportation, time of sampling, and lymphocyte numbers on gamma interferon response to *Mycobacterium bovis* in cattle at time of slaughter. *J Vet Diagn Invest*, Vol 25, No. 2, 248-253.
6. **Okafor, C.C.**, Grooms, D.L., Bolin, S.R., Averill, J.J. and Kaneene, J.B. (2013). Evaluation of the IFN- γ assay on blood collected at exsanguination of cattle under field conditions for surveillance of bovine tuberculosis. *Transbound Emerg Dis* doi:10.1111/tbed.12080.
7. **Okafor, C.C.**, Pearl, D.L., Lefebvre, S.L., Wang, M., Yang, M., Blois, S.L., Lund, E.M., and Dewey, C.E. (2013). Risks factors associated with struvite urolithiasis in dogs evaluated at general care veterinary hospitals in the United States. *J Am Vet Med Assoc*, Vol 243, No. 12, 1737-1745.

8. **Okafor, C.C.**, Grooms, D., Alocilja, E., Bolin, S. (2014). Comparison between a conductometric biosensor and ELISA in the evaluation of Johne's disease. *Sensors* 14, 19128-19137.
9. **Okafor, C.C.**, Lefebvre, S.L., Pearl, D.L., Yang, M., Wang, M., Blois, S.L., Lund, E.M. and Dewey, C.E. (2014). Risks factors associated with the incidence of calcium oxalate urolithiasis in dogs evaluated at general care veterinary hospitals in the United States (2007-2010). *Prev Vet Med*, Vol 115, No 3-4, 217-228.
10. **Okafor, C.C.**, Strickland, L.G., Jones, B.M., Kania, S., Anderson, D.E. and Whitlock, B.K. (2017). Prevalence of *Tritrichomonas foetus* in Tennessee Bulls. *Vet Parasitol*, Vol 243, 169-175.
11. Cox, S., Bailey J., **Okafor, C.C.***, Seddighi R., Doherty T. (2017). The influence of storage time and temperature on Propofol concentrations in canine blood and plasma. *Peer J* 5:e3476. <https://doi.org/10.7717/peerj.3476>.
12. Odunayo, A., Tobias, K., **Okafor, C.C.***, and Flatland, B. (2017). Comparison of native whole blood, EDTA whole blood, and plasma ammonia concentrations using a point-of-care ammonia meter. *Am J Vet Res*, Vol 78, No 11, 1239-1244.
 - Contributed in the study design.
13. **Okafor, C.C.**, Collins S.L., Daniel J.A., Harvey B., Sun X., Coetzee J.F. and Whitlock, B.K. (2018). Factors associated with seroprevalence of *Anaplasma marginale* in Kentucky cattle. *Vet. Parasitol. Regnl. Stud. Rep.* 13, 212-219.
14. **Okafor, C.C.**, Collins S.L., Daniel J.A., Harvey B., Coetzee J.F. and Whitlock, B.K. (2018). Factors associated with seroprevalence of bovine anaplasmosis in Texas. *Vet. Parasitol. Regnl. Stud. Rep.* 14, 32-40.
15. Ekakoro, J.E, and **Okafor, C.C.†** (2018). Antimicrobial use practices of veterinary clinicians at a veterinary teaching hospital in the United States. *Veterinary and Animal Science* (<https://doi.org/10.1016/j.vas.2018.09.002>).
16. **Okafor, C.C.**, Pearl, D.L., Blois, S.L., Lefebvre, S.L., Yang, M., Lund, E.M., and Dewey, C.E. (2018). Factors associated with hematuric struvite crystalluria in cats. *Journal of Feline Medicine and Surgery* (<https://doi.org/10.1177%2F1098612X18809176>).
17. Ekakoro, J.E., Caldwell, M., Strand, E. B., and **Okafor, C.C.†** (2018). Drivers of antimicrobial use practices among Tennessee dairy cattle producers. *Veterinary Medicine International*. (<https://doi.org/10.1155/2018/1836836>).
18. **Okafor, C.C.**, Collins S.L., Daniel J.A., Coetzee J.F. and Whitlock, B.K. (2019). Seroprevalence of bovine anaplasmosis in Georgia. *Vet. Parasitol. Regnl. Stud. Rep.* (<https://doi.org/10.1016/j.vprsr.2018.100258>).

19. Ekakoro, J.E., Caldwell, M., Strand, E. B., and **Okafor, C.C.**[†] (2019). Drivers, alternatives, knowledge, and perceptions towards antimicrobial use among Tennessee beef cattle producers: A qualitative study. *BMC Vet Res*, 15:16. (<https://doi.org/10.1186/s12917-018-1731-6>).
20. **Okafor, C.C.**, Collins S.L., Daniel J.A., Coetzee J.F. and Whitlock, B.K. (2019). Factors associated with seroprevalence of bovine anaplasmosis in Mississippi, USA. *Vet. Parasitol. Regnl. Stud. Rep.* (<https://doi.org/10.1016/j.vprsr.2019.100301>).
21. Ekakoro, J.E., Caldwell, M., Strand, E. B., and **Okafor, C.C.**[†] (2019). Perceptions of Tennessee cattle producers regarding the Veterinary Feed Directive. *Plos One* (<https://doi.org/10.1371/journal.pone.0217773>).
22. Nystrom, M., Odunayo, A.[‡], and **Okafor, C.C.**[‡] (2019). Assessment of hydromorphone and dexmedetomidine for emesis induction in cats. *J Vet Emergency and Critical Care* (<https://doi.org/10.1111/vec.12866>).
23. Ekakoro, J.E., Caldwell, M., Strand, E. B., Strickland, L. and **Okafor, C.C.**[†] (2019). A survey of antimicrobial use practices of Tennessee beef producers. *BMC Vet Res*, 15:222. (<https://doi.org/10.1186/s12917-019-1978-6>).

Submitted Manuscripts Under Review

24. Bush, K., Odunayo, A.[‡], Hedges, K., Guieu, L., **Okafor, C.C.**[‡] (2019). Peripheral intravenous catheter failure in hospitalized cats: a prospective, observational study. *Journal of Feline Medicine and Surgery*.
25. Newkirk, K.M, Culligan, C.M., **Okafor, C.C.**^{*}, Uzal, F.A. (2019). Prevalence of cardiac lesions in cases of bovine Clostridial myositis. *Vet. Path.*
 - Contributed in the analysis and interpretation of results.
26. **Okafor, C.C.**, Collins S.L., Daniel J.A., Coetzee J.F. and Whitlock, B.K. (2019). Factors associated with seroprevalence of bovine anaplasmosis in North Carolina, USA. *Vet. Parasitol. Regnl. Stud. Rep.*

Published Peer-Reviewed Abstracts

‡ indicates presentations by mentees or collaborators

International

1. **Okafor, C.C.**, Grooms, D.L, Alocilja, E.C. (2007). Detection of Mycobacterium avium paratuberculosis antibodies in serum using a conductometric biosensor. *9th Int'l Colloquium on Paratuberculosis*, Tsukaba, Japan, Oct 29-Nov 3, p 55. (**Oral and poster presentations**).
2. **Okafor C.C**, Grooms D.L, Alocilja E.C. (2007). Use of organic nanowires as “on/off” switch in a biosensor for on-site detection of potential agroterrorism agents. *Proceedings of the 2007 Nanoelectronic Devices for Defense & Security (NANO-DDS) Conference*, Washington DC, June 18-21, p 40. (**Oral presentation**).
3. **Okafor, C.C**, Grooms, D.L, Bruning-Fann, C.S, Averill, J.J and Kaneene, J.B. (2010). Descriptive epidemiology of bovine Tuberculosis in Michigan (1975-2010); lessons learned. *43rd Annual Conference of the American Association of Bovine Practitioners and AVC Summer Meeting*, Albuquerque, New Mexico, August 19-21. (**Oral presentation**).
4. **Okafor, C.C**, Grooms, D.L, Bolin, S.R and Kaneene, J.B. (2010). Validity of the bovine TB gamma interferon assay on blood collected during exsanguination at slaughter. *Conference of Research Workers in Animal Diseases*, Chicago, Dec 5-7. (**Oral presentation**).
5. **Okafor, C.C**, Grooms, D.L, Gravelyn T.D, and Bolin, S.R, (2011). Factors associated with detection of bovine interferon gamma in blood collected during exsanguination of cattle sensitized to *Mycobacterium bovis*. *54th Annual Conference of the American Association of Veterinary Laboratory Diagnosticians*, Buffalo, New York, Sept. 28-October 5. (**Oral presentation**).
6. **Okafor, C.C**, Grooms, D.L, Bolin, S.R and Kaneene, J.B. (2011). Validity of the bovine TB gamma interferon assay on blood collected during exsanguination at slaughter. *115th Annual Meeting of the United States Animal Health Association*, Buffalo, New York, Sept. 28- October 5. (**Oral presentation**).
7. **Okafor, C.C**, Grooms, D.L, Bolin, S.R, Averill, J.A, and Kaneene, J.B. (2011). Interferon gamma assay on blood collected during exsanguination: a surveillance tool for bovine tuberculosis. *54th Annual Conference of the American Association of Veterinary Laboratory Diagnosticians*, Buffalo, New York, September 28- October 5. (**Oral presentation**).
8. **Okafor, C.C**, Grooms, D.L, Bolin, S.R, Averill, J.J, Gravelyn, T.D, and Kaneene, J.B. (2012). Bovine TB interferon- γ assay at slaughter: a novel strategy for targeted surveillance. *13th International Society for Veterinary Epidemiology and Economics (ISVEE) Conference*, Maastricht, Netherlands, Aug 20-24. (**Poster presentation**).

9. **Okafor, C.C**, Pearl, D.L., Lefebvre, S.L., Wang, M, Yang, M., Blois, S.L., Lund, E.M, and Dewey, C.E. (2013). Factors associated with struvite urolithiasis in the United States. *Conference of Research Workers in Animal Diseases, Chicago, Dec 8-10. (Oral presentation).*
10. **Okafor, C.C**, Lefebvre, S.L., Pearl, D.L., Yang, M., Wang, M, Blois, S.L., Lund, E.M, and Dewey, C.E. (2013). Factors associated with calcium oxalate urolithiasis in dogs in the United States. *Conference of Research Workers in Animal Diseases, Chicago, Dec 8-10. (Oral presentation).*
11. **Okafor, C.C**, Pearl, D.L., Lefebvre, S.L., Wang, M, Yang, M., Blois, S.L., Lund, E.M, and Dewey, C.E. (2013). Risks factors associated with struvite urolithiasis in dogs evaluated at general care veterinary hospitals in the United States. *The Waltham International Nutritional Sciences Symposium, Portland, Oregon, Oct 1-4. (Poster presentation).*
12. **Okafor, C.C**, Pearl, D.L., Lefebvre, S.L., Blois, S.L., Wang, M, Yang, M., Lund, E.M, and Dewey, C.E. (2014). Factors associated with hematuric struvite crystalluria in cats. *Conference of Research Workers in Animal Diseases, Chicago, Dec 7-9. (Oral presentation).*
13. **Okafor, C.C**, Pearl, D.L., Lefebvre, S.L., Blois, S.L., Wang, M, Yang, M., Lund, E.M, and Dewey, C.E. (2015). Analytic epidemiology of hematuric struvite crystalluria in cats. *International Society for Veterinary Epidemiology and Economics (ISVEE) 14, Merida, Mexico, Nov 3-7. (Oral presentation).*
14. Ekakoro, J. E., and **Okafor, C.C**. (2016). Investigation of the Determinants of Antimicrobial Use in Livestock and Companion Animals Among Veterinary Clinicians at The University of Tennessee Veterinary Medical Center. *Canadian Association of Veterinary Epidemiology and Preventive Medicine (CAVEPM), Guelph, Canada, May 16 – 17. (Poster presentation[¶]).*
15. **Okafor, C.C**, Strickland, L.G., Kania, S., Gerhold, R.W., Whitlock, B.K. (2016). Prevalence of *Tritrichomonas foetus* in Tennessee Beef Bulls. *Canadian Association of Veterinary Epidemiology and Preventive Medicine (CAVEPM), Guelph, Canada, May 16 – 17. (Oral presentation).*
16. McCarty, K., Wilcox, A., Souza, M., Gerhold, R., Omara, R. **Okafor, C.C**, Dell, B., and Masembe, C. (2016). Bushmeat Roulette. *The Wildlife Society's Annual Conference, Raleigh North Carolina, Oct 15-19. (Poster presentation[¶]).*
17. Nystrom, M., Odunayo, A., and **Okafor, C.C**. (2017). Evaluation of hydromorphone and dexmedetomidine for emesis induction in cats. *Amer Col Vet Int Med, National Harbor, Maryland, June 8. (Oral and poster presentations[¶]).*

18. Ekakoro, J.E. and **Okafor, C.C.** (2017). Antimicrobial use practices in a U.S veterinary teaching hospital, *AVMA convention, Indianapolis, Indiana, July 21-25. (Poster presentation).*
19. Ekakoro, J.E. and **Okafor, C.C.** (2017). A cross-sectional study of the determinants of antimicrobial use practices of veterinary clinicians at a US veterinary teaching hospital. *Conference of Research Workers in Animal Diseases, Chicago, Illinois, Dec 3-5. (Oral presentation[¥]).*
20. Ekakoro, J.E., Caldwell, M., Strand, E. B., and **Okafor, C.C.** (2017). Antimicrobial use practices and perceptions of cattle producers in Tennessee regarding antimicrobial use: a qualitative study. *Conference of Research Workers in Animal Diseases, Chicago, Illinois, Dec 3-5. (Oral presentation[¥]).*
21. Ekakoro, J.E. and **Okafor, C.C.** (2018). Antimicrobial use practices of veterinary clinicians at a veterinary teaching hospital in the United States. *One Health Congress, Saskatoon, Canada, Jun 22-25. (Poster presentation).*
22. Ekakoro, J.E., Caldwell, M., Strand, E. B., and **Okafor, C.C.** (2018). Factors that drive antimicrobial use practices of cattle producers in Tennessee, USA. *One Health Congress, Saskatoon, Canada, Jun 22-25. (Poster presentation).*
23. Hedges, K., Odunayo, A., Smith R., and **Okafor, C.C.** (2018). Canine peripheral intravenous catheter longevity in a small animal intensive care unit. *International Veterinary Emergency and Critical Care Society Meeting, New Orleans, Louisiana, Sept 12-15. (Poster presentation[¥]).*
24. Ekakoro, J.E. and **Okafor, C.C.** (2018). Antimicrobial use practices of veterinary clinicians at a veterinary teaching hospital in the United States. *15th International Symposium of Veterinary Epidemiology and Economics, Chiang Mai, Thailand, Nov 12-18. (Oral presentation).*
25. Ekakoro, J.E., Caldwell, M., Strand, E. B., and **Okafor, C.C.** (2018). A qualitative study of antimicrobial use practices among cattle producers in Tennessee, USA. *15th International Symposium of Veterinary Epidemiology and Economics, Chiang Mai, Thailand, Nov 12-18. (Oral presentation).*
26. **Okafor C.C.**, Collins S.L., Daniel J.A., Harvey B., Sun X., Coetzee J.F. and Whitlock, B.K. (2018). Factors associated with seroprevalence of *Anaplasma marginale* in cattle, Kentucky, USA. *15th International Symposium of Veterinary Epidemiology and Economics, Chiang Mai, Thailand, Nov 12-18. (Poster presentation).*
27. **Okafor, C.C.**, Ekakoro, J.E., Caldwell, M., and Strand, E. B. (2018). Perceptions of Tennessee cattle producers towards the Veterinary Feed Directive. *Conference of Research Workers in Animal Diseases, Chicago, Illinois, Dec 2-4. (Oral presentation).*

28. Ekakoro, J.E., Caldwell, M., Strand, E. B., and **Okafor, C.C.** (2018). A survey of antimicrobial use practices of Tennessee beef cattle producers. *Conference of Research Workers in Animal Diseases, Chicago, Illinois, Dec 2-4. (Oral presentation).*
29. Ekakoro, J.E., Caldwell, M., Strand, E. B., and **Okafor, C.C.** (2018). Drivers of antimicrobial use practices among Tennessee dairy cattle producers. *Conference of Research Workers in Animal Diseases, Chicago, Illinois, Dec 2-4. (Oral presentation).*
30. **Okafor, C.C.**, Collins S.L., Daniel J.A., Harvey B., Sun X., Coetzee J.F. and Whitlock, B.K. (2018). Factors associated with seroprevalence of *Anaplasma marginale* in Kentucky cattle. *Conference of Research Workers in Animal Diseases, Chicago, Illinois, Dec 2-4. (Poster presentation).*
31. **Okafor, C.C.**, Collins S.L., Daniel J.A., Harvey B., Coetzee J.F. and Whitlock, B.K. (2018). Factors associated with seroprevalence of *Anaplasma marginale* in Texas cattle. *Conference of Research Workers in Animal Diseases, Chicago, Illinois, Dec 2-4. (Poster presentation).*
32. Conkey, N.P[¥], **Okafor, C.C.**, Strickland, L., and Whitlock, B.K. (2019). Factors associated with bulls not classified as satisfactory potential breeders at University of Tennessee Veterinary Medical Center. Society for Theriogenology, Savannah, Georgia, July 24-27. *(Oral presentation[¥]).*
33. **Okafor, C.C.**, Collins S.L., Daniel J.A., Coetzee J.F. and Whitlock, B.K. (2019). Seroprevalence of *Anaplasma marginale* in Georgia cattle. *Conference of Research Workers in Animal Diseases, Chicago, Illinois, Nov 2-5. (Oral presentation).*
34. **Okafor, C.C.**, Collins S.L., Daniel J.A., Harvey B., Coetzee J.F. and Whitlock, B.K[¥] (2019). Factors associated with seroprevalence of *Anaplasma marginale* in Mississippi cattle. *Conference of Research Workers in Animal Diseases, Chicago, Illinois, Nov 2-5. (Poster presentation[¥]).*
35. **Okafor, C.C.**, Ekakoro, J.E., Caldwell, M., and Strand, E. B. (2019). Psychosocial factors of Tennessee cattle producers regarding responsible antibiotic use. *Conference of Research Workers in Animal Diseases, Chicago, Illinois, Nov 2-5. (Oral presentation).*
36. Enem, S.I[¥], Oboegbulem, S.I and Okafor, C.C. (2019). Prevalence of Shigatoxin producing *Escherichia coli* O157 in cattle, chicken and animal products in Abuja, Nigeria. *Conference of Research Workers in Animal Diseases, Chicago, Illinois, Nov 2-5. (Oral presentation[¥]).*
37. Enem, S.I[¥], Okafor, C.C, Kia, G.C.N, and Okolocha, E.C. (2019). Impact of abattoir wastewater on the physiochemical parameters and heavy metal concentration of water bodies in Abuja, Nigeria. *Conference of Research Workers in Animal Diseases, Chicago, Illinois, Nov 2-5. (Oral presentation[¥]).*

National

1. Gravelyn, T.D.[‡], Grooms, D.L., **Okafor, C.C.** (2010). The effect of sampling site on gamma interferon tests for detection of bovine Tuberculosis. *20th Annual Phi Zeta Research Day, CVM, Michigan State University, October 1, p 23. (Poster presentation[‡]).*
2. **Okafor, C.C.**, Grooms, D.L., Alocilja, E.C. (2007). Rapid diagnosis of Johne's disease by biosensor technique. *17th Annual Phi Zeta Research Day, College of Veterinary Medicine. Michigan State University, October 12, p 29. (Oral presentation).*

Exhibits and Posters

1. Godwin, S. M.[‡] and **Okafor, C.C.**[†] (2017). Descriptive epidemiology of antibiotic prescriptions and caseloads at the University of Tennessee College of Veterinary Medicine (2010-2016). *CEM Symposium, UTIA Knoxville, October 3.*

Other Publications and Creative Activities

DVM Student(s) Mentored for the UTCVM Center of Excellence Summer Research Program

Simone Godwin

Summer 2017

Descriptive epidemiology of antibiotic prescriptions and caseloads at the University of Tennessee College of Veterinary Medicine (2010-2016).

Thesis and Dissertation

1. **Okafor, C.C.** (2003). The haematological profile of albino rats of the Sprague-Dawley outbred strain in Nsukka. *A thesis for the award of D.V.M. Univ. of Nigeria, Nsukka.*
2. **Okafor, C.C.** (2008). Detection of *Mycobacterium avium* subsp. *paratuberculosis* IgG by a conductometric biosensor: an aid in diagnosis of Johne's disease. *A thesis for the award of Master of Science, Michigan State University, May 16.*
3. **Okafor, C.C.** (2011). Epidemiology of bovine tuberculosis in Michigan and a novel strategy for targeted surveillance. *A dissertation for the award of Doctor of Philosophy, Michigan State University, October 12.*

Invited Presentation/Workshop

1. **The Challenge of Change: Harnessing University Engagement, Learning, and Discovery to Achieve Food and Nutrition Security. 2016**
[An Association of Public Land Grant Universities (APLU) workshop of invited discipline experts in North America (US, Canada, and Mexico) to address global food security and safety with the goals of advising the incoming President of the United States on areas of immediate need. I served in the Food Safety, Sanitation, and Public Health Working Group as the only invited food safety expert from the University of Tennessee. We collectively developed a report for the US President

on areas on immediate priority in addressing global food security. We had live meetings August 31st & September 1st 2016 at the APLU Offices at 1307 New York Avenue NW, Washington, DC 20005 and several virtual meetings until we finalized and submitted our 3-page report in October 2016].

2. **Veterinary Antimicrobial Resistance Learning Site.** **2017, 2018, 2019**

[An American Association of Veterinary Medical Colleges (AAVMC) workshop of instructors teaching Antimicrobial Resistance topics to veterinary students with the objective of improving subject contents and delivery] Workshop at AAVMC headquarters in Washington, DC 20005 Feb 16-17, 2017, Feb 21-23, 2018, and June 13, 2019

- 18 selected participants from around the country (USDA, FDA, CDC, Texas A&M, Minnesota, Purdue, Cornell, UT, LMU)

3. **Workshop on AMR/AMS teaching to veterinary students.** **2019**

[An American Association of Veterinary Medical Colleges (AAVMC) workshop of instructors teaching Antimicrobial Resistance topics to veterinary students with the objective of improving subject contents and delivery] Workshop at AAVMC headquarters in Washington, DC 20005 Feb 16-17, 2017 and Feb 21-23, 2018.

Invitee and Host of College Speaker(s)

1. **The Power of Population Data: Evidence Based Medicine at Banfield Pet Hospitals** **2016**

Dr. Okafor hosted Banfield Pet Hospital's senior administrators (Drs. Elizabeth Lund, Director of Research at Banfield and Kimberly Larkin, Director of Hospital Operation in Tennessee) to UTCVM to rekindle collaborative relationship in November 2016. These Banfield administrators met with the UTCVM administrators (Dean James Thompson, Associate Deans Michael McEntee and Claudia Kirk, Robert DeNovo, and Department Head Dr. Juergen Schumacher) and presented a college-wide seminar titled "The Power of Population Data: Evidence Based Medicine at Banfield Pet Hospitals" on Nov 8.

Research and Other External Support (Principal Investigator)

- Title:** Drivers of antimicrobial use practices in cattle production in Tennessee.
Year: 2017-2018
Role: PI
Other Investigators: Caldwell, M and Strand, E
Funding Agency: USDA NIFA support (24,000) with matching funds from the Center of Excellence in Livestock Diseases and Human Health, CVM, University of Tennessee (6,000).
Amount: \$30,000
Status: Funded
Results: See Peer-Reviewed Publications Nos. 18 and 20; Published Peer-Reviewed Abstracts, International, Nos. 20, 22, 25, 28, and 29
- Title:** New international collaboration aimed at quantifying and reducing the effects of antimicrobial use in fish farming on microbial diversity in Nigerian dry and wet lands.
Year: 2017-2018
Role: PI
International Host: Dr. Enem, I. from The University of Abuja, Nigeria
Funding Agency: CRDF Global (an independent nonprofit organization that promotes international scientific collaboration).
Amount: \$9,532
Status: Funded (On-going)
Results: Pending
- Title:** The effects of antimicrobial use in Nigerian pond fish farming on microbial diversity of surrounding drylands and water bodies
Year: 2018-2019
Role: PI
International Host: Dr. Enem, I. from The University of Abuja, Nigeria
Funding Agency: CRDF Global (an independent nonprofit organization that promotes international scientific collaboration).
Amount: \$9,967
Status: Funded (On-going)
Results: Pending

Research and Other External Support (Co-Investigator)

- Title:** Randomized clinical trial to investigate the effectiveness of educational materials and information to pet owners in reducing post-operative obesity in dogs and cats
Year: 2016
Role: Co-PI (30% effort)
PI: Rollins, A
Funding Agency: Hill's Pet Nutrition, Inc.
Amount: \$7,438
Status: Funded (On-going)

Results: Pending

2. **Title:** SHEPHERD 2016 Solicitation Number: 2016-N-17729) for antimicrobial resistance studies in 8 domains
Title of domain applied: Domain 8: Veterinary Healthcare Quality Improvement and Research Protocol Development and Implementation
Year: 2016
Role: Co-PI
PI: Kania, S
Other Investigators: Odoi, A., Bemis, D., Frank, L., Thompson, S.
Granting Agency: The CDC
Amount: No monetary value at this time (UTCVM was awarded a contract under the 2016 SHEPHERD IDIQ contract for Domain 8. Task Order award information for this IDIQ Domain is forthcoming.)
Status: Awarded
3. **Title:** Preliminary study on the occurrence and diversity of antibiotic resistant bacteria and abundance of resistance genes in dairy farm environments
Year: 2017
Role: Co-PI
PI: Kerro Dego, Oudessa
Other Co-PIs: D'Souza
Funding Agency: The Center of Excellence in Livestock Diseases and Human Health, CVM, University of Tennessee.
Amount: \$29,981
Status: Funded (On-going)
Results: Pending
4. **Title:** Promoting Advanced One Health Perspectives for Rural Community Food Animal Veterinarians
Year: 2018
Role: Co-PI (2% effort)
PI: Thompson, S.
Other Co-PIs: Souza, M., Odoi, A.
Funding Agency: USDA NIFA Veterinary Services Grant Program (VSGP)
Amount: \$257,250
Status: Pending
Results: Pending
5. **Title:** USAID Feed the Future Food Safety Innovation Lab (FSIL) Concept Paper
Year: 2018
Role: Co-PI (1% effort)
PI: Thompson, S.
Other Co-PIs: Gadzekpo, N., Gill, T., Odoi, A.
Funding Agency: US - USAID - Feed the Future
Amount: \$10,180,274

Status: Pending
Results: Pending

Research and Other Internal Support (Principal Investigator)

1. **Title:** Bulk tank milk PCR detection of *Mycobacterium avium* subsp. *paratuberculosis*: a model for estimating the prevalence of johne's disease in michigan dairy farms.
Year: 2006-2007
Role: Principal Investigator (PI)
Other Investigator: Grooms, D.L.
Funding Agency: Food Animal Research Funds, CVM, Michigan State University
Amount: \$4,800
Status: Work completed successfully.
Results: See Peer-Reviewed Publications, Nos. 2 and 8
2. **Title:** Validity of the bovine tuberculosis gamma interferon assay on blood collected during exsanguination.
Year: 2010-2011
Role: Principal Investigator (PI)
Other Investigator: Grooms, D.L.
Funding Agency: Food Animal Research Funds, CVM, Michigan State University
Amount: \$9,096
Status: Work completed successfully
Results: See Peer-Reviewed Publications, Nos. 4, 5, and 6
3. **Title:** Developing a new online course to address the emerging food safety issues from food animals
Year: 2016
Role: PI
Funding Agency: UTK's Office of Information Technology (OIT)
Award: Educational materials (Ipad and software packages) and OIT staff support
Status: Awarded and completed.
Results: CEM 809 course developed

Research and Other Internal Support (Co-Investigator)

1. **Title:** Diagnosis and management of hyperammonemia in dogs with suspected portosystemic shunts.
Year: 2015-2016
Role: Co-PI
PI: Odunayo, A.
Funding Agency: Animal Research Funds, CVM, University of Tennessee.
Amount: \$5,265
Status: Funded (Study completed)
Results: See Peer-Reviewed Publications, No 12
2. **Title:** Bushmeat Roulette: Species Uncertainty and Disease Risk from Foodborne

Pathogens in Uganda

Year: 2016

PIs: Adam Willcox (FWF, Research Assistant Professor)

Marcy Souza (CVM, Associate Professor)

Richard Gerhold (CVM, Assistant Professor)

Chika Okafor (CVM, Assistant Professor)

Funding agency: UTIA international Grant

Amount: \$7,963

Status: Funded (On-going)

Results: See Published Peer-Reviewed Abstracts, International, No. 16

3. **Title:** Bushmeat Roulette

Year: 2017

PIs: Marcy Souza (CVM, Associate Professor)

Bree Dell (CVM, Graduate Student)

Adam Willcox (FWF, Research Assistant Professor)

Richard Gerhold (CVM, Assistant Professor)

Chika Okafor (CVM, Assistant Professor)

Funding agency: CVM FEAR Fund

Amount: \$5,000

Status: Funded (On-going)

Results: Pending

Presentations

Invited Oral Presentations (National and Local)

1. **Okafor, C.C.** (2016). Feeding the Dynamic Population. An invited 1-hour lecture by the Association of American Feed Control Officials for their Advanced Inspector Training Seminar at Hilton Hotels in Knoxville on June 29. (64 representatives from 32 States attended) (**National**).
2. **Okafor, C.C.** (2016). Evidence Based Veterinary Medicine. An invited 1-hour lecture by Dr. Lane Anderson of The UTCVM as part of the introductory lecture for ABLEs to the DVM class of 2020 on September 16. (A total of 83 students attended) (**Local**).
3. **Okafor, C.C.** (2017). Evidence Based Veterinary Medicine. An invited 1-hour lecture by Dr. Lane Anderson of The UTCVM as part of the introductory lecture for ABLEs to the DVM class of 2021 on October 16. (A total of 85 students attended) (**Local**).
4. **Okafor, C.C.** (2017). Antibiotics in food producing animals. An invited 1-hour lecture by the One Health Club of The University of Tennessee Student Chapter of the American Veterinary Medical Association at UTCVM in Knoxville on November 22. (A total of 12 student and faculty attended) (**Local**).
5. **Okafor, C.C.** (2018). Evidence Based Veterinary Medicine. An invited 1-hour lecture by Dr. Karen Tobias of The UTCVM as part of the Monday Morning Seminar Series to the CVM residents, house officers, and faculty on February 12. (**Local**).
6. **Okafor, C.C.** (2018). Evidence Based Veterinary Medicine. An invited 1-hour lecture by Dr. Lane Anderson of The UTCVM as part of the introductory lecture for ABLEs to the DVM class of 2022 on October 15. (A total of 85 students attended) (**Local**).

Other Oral Presentations (Local)

‡ indicates presentations by my mentees

7. **Okafor, C.C.** (2010). Use of gamma interferon assay at slaughter; a potential surveillance tool for bovine Tuberculosis. *Dissertation proposal, Michigan State University, March 30.*
8. Godwin, S. M.‡, Ekakoro, J.E., and **Okafor, C.C.** (2017). Descriptive epidemiology of antibiotic prescription practices and caseloads at the University of Tennessee College of Veterinary Medicine, *COE Summer Research, Knoxville, July 31.*
9. Hedges, E.‡, Odunayo, A., Smith, R., and **Okafor, C.C.** (2017). Peripheral intravenous catheter longevity study in a small animal intensive care unit. *CEM Symposium, UTIA Knoxville, October 3.*

10. Ekakoro, J.E.[‡], Caldwell, M., Strand, E. B., and **Okafor, C.C.** (2017). Drivers of antimicrobial use practices among cattle producers in Tennessee: a qualitative study. *CEM Symposium, UTIA Knoxville, October 3.*
11. Ekakoro, J.E.[‡] and **Okafor, C.C.** (2017). Determinants of antimicrobial use practices among veterinary clinicians at the University of Tennessee Veterinary Medical Center. *CEM Symposium, UTIA Knoxville, October 3.*

Professional Development Workshops/Meetings/Conferences Attended

2015

- The UTIA Big Grant Workshop (all-day)
- IRB Compliance meeting
- UK and Gluck Equine Research Center Collaboration trip
- UT AgResearch Faculty Development Fellows Program
- The 14th International Symposium on Veterinary Epidemiology and Economics, Nov 3-7, @ Merida, Mexico.

2016

- UT AgResearch Faculty Development Fellows Program
- The UTIA Grant Writing Workshop and Program
- The Canadian Association of Veterinary Epidemiology and Preventive Medicine (CAVEPM) conference, May 16 – 17, @ Guelph, Canada.
- The 97th Conference of Research Workers in Animal Diseases (CRWAD), Dec 2-4 @ Chicago, Illinois, USA.

2017

- The Veterinary Students Day 2017 at CDC (took 10 UT DVM students to the event)
- UTIA/University of Kentucky Grant Writers Workshop and Program
- The American Veterinary Medical Association convention, July 21-25, @ Indianapolis, Indiana, USA
- American College of Epidemiology (ACE) Pre-Conference Workshops, Sept 24-26 @ New Orleans, Louisiana, USA.
 - Dissemination and Implementation Research in Health
 - QGIS Basics
- The 98th Conference of Research Workers in Animal Diseases (CRWAD), Dec 3-5 @ Chicago, Illinois, USA.

2018

- New international collaboration aimed at quantifying and reducing the effects of antimicrobial use in fish farming on microbial diversity in Nigerian dry and wet lands, March 16- April 17 @ University of Abuja, Nigeria
- The 5th International One Health Congress, June 22-25 @ Saskatoon, Saskatchewan, Canada.
- Workshop for Graduate Mentors, “Supervising Graduate Students for Today’s Job Market”, by Dr. Jennifer Askey, Oct 22 @ UT Hodges Library, Knoxville, TN, USA
- NIFA Multi-Disciplinary Grant Workshop as a BDS representative, Nov 5-8 @ Washington D.C., USA.

- Day 1
 - Workshop on “Challenges of Developing and Leading Successful Multi-disciplinary AFRI Proposals and Projects: Forming, Storming, Norming, and Performing” by National Program Leaders at NIFA building
 - Overview of AFRI and Multi-Disciplinary Projects & Q&A
 - Leading Large Social-Ecological Projects: A Primer
 - Large Scale, Multi-Disciplinary Projects (Water, Animal Science and Nutrition) and Discussion
 - Meet with Staff from the US Senate Committee on Agriculture at Senate Russell Office Building
 - Meet with Foundation for Food and Agriculture Research (FFAR) science team
 - Meet with Senate Commerce Committee, Science Subcommittee Staff
- Day 2:
 - Meet with NASDA staff (4350 Fairfax Dr, Arlington, VA, Suite 910)
 - Depart for House Agriculture Committee, House Longworth Office Building (15 Independence Ave SE DC)
 - Meet with House Agriculture Committee science staff (1300 Longworth Office Building)
 - Meet with staff from the House Committee on Science, Subcommittee on Research and Technology at House Rayburn Office Building
- Day 3:
 - Met individually with National Program Leader of Food Safety
- The 15th International Symposium on Veterinary Epidemiology and Economics, Nov 10-16 @ Chiang Mai, Thailand
- The 99th Conference of Research Workers in Animal Diseases (CRWAD), Dec 2-4 @ Chicago, Illinois, USA.

C: Institutional, Disciplinary and Professional Service

Selected University Committees served @ MSU

- CVM representative, MSU Council of Graduate Students 2006-2011
- MSU CVM International Programs Advisory Committee 2006-2011
- Post Graduate Education Working Group for the LCS Strategic Planning Process 2008
- MSU CVM Committee on Graduate Grievance Hearing 2008-2009
- LCS Post Graduate Training Committee 2008-2010
- MSU Student Appeals Board 2009-2011

Previous Professional and Public Services Before Arriving at UT

- The Michigan Johne's Disease Demonstration Project 2006-2008
 - Advised Michigan farmers on the benefits of biosecurity to the control of animal diseases
- The Michigan's annual Miracle-of-Life Exhibitions 2006-2009
 - Volunteered veterinary services during the fair
- The Michigan 4-H club 2006-2009
 - Demonstrated basic veterinary clinical skills to Michigan high school students
- The Michigan Bovine Tuberculosis Eradication Program 2008-2011
- Mentor graduate students on the design and statistical analysis of epidemiological studies 2009-2014
- Reviewed one manuscript for Zoonoses and Public Health 2014

Service Activities at UT

- Provided study design and/or statistical support to UT faculty and students
 - 2015 - present
- Reviewed proposals in the UTIA Center of Excellence Funding Program
 - 3 in 2015
- Reviewed proposals in the UTIA Seed Grant Funding Program
 - 3 in 2017
- Reviewed MPH/VPH admission applications
 - 3 in 2015; 3 in 2016; 3 in 2017; 3 in 2018
- Examined MPH/VPH students for candidacy
 - 5 in 2017
- Attended '*Strategies and Tactics for Recruiting to Improve Diversity and Excellence (STRIDE) workshop for search committees*', 2015
 - Learned about reducing implicit bias in the search and hiring process
- Contributed in the DVM admissions
 - Reviewed 25 packets for class of 2021
 - Interviewed (all-day) for class of 2021, 2022, 2023
- Proxy member of the UT Graduate Council (2016-2018)
 - 3 meetings in 2016; 2 in 2017; 1 in 2018
- Member of the UT Graduate Council (2019-2022)

- 3 meetings in 2019;
- Member of the Food Micro/ Food Safety Extension Position Search committee 2019
 - Reviewed 29 applications;
- Member of the CEM Admissions and Academic Progress Committee (2019-2022)
 - Reviewed 4 admission packages in 2019;

Service to the Profession

- Reviewed manuscripts for the following journals
 - Veterinary Record (1 in 2015)
 - JAVMA (1 in 2015)
 - Veterinary Parasitology (1 in 2015)
 - PLOS ONE (1 in 2015, 2016, 2018)
 - Prev. Vet. Med (1 in 2018)
- Served as a member of the ACVPM (Epi) examination committee
 - 2015 – 2018 (Grading of 9 diplomate examinations)
- Chaired the ACVPM (Epi) examination committee
 - 2017 – 2018 (Administration and grading of 3 diplomate examinations)
- **Invited** Panelist, USDA NIFA Veterinary Services Grant Program
 - 2017: Reviewed 5 Education, Extension, and Training proposals (3 primary, 2 tertiary)
 - Reviewed 4 Rural Practice Enhancement proposals (4 secondary, 1 tertiary)
- **Invited** Panelist, USDA NIFA Animal Health and Disease Program
 - 2017: Reviewed 14 proposals (3 primary, 4 secondary, and 7 tertiary)
- **Invited** Assistant Chair, CRWAD Ecology of Foodborne Diseases Section
 - 2017: Chaired the following additional sections: Antibiotic Use, Antibiotic Resistance, and Alternatives to Antibiotics
- **Invited** Reviewer, National Pork Board
 - 2018: Reviewed 3 proposals on food safety
- **Invited** Panelist, USDA NIFA on a conference proposal in veterinary medicine
 - 2019: : Reviewed 1 proposal on importance of Geo/Spatial Epidemiology in Veterinary Medicine

CV updated on: 11/15/2019