

CURRICULUM VITAE

TAMATHA R. BARBEAU, Ph.D.

Associate Professor of Biology
 Department of Biology, Francis Marion University
 P.O. Box 100547
 Florence, SC 29502-0547
 Ph: (843) 661-4651, Fax: (843) 661-4660
 E-mail: tbarbeau@fmarion.edu
 Web: <http://people.fmarion.edu/tbarbeau>

Revised – October, 2020

EDUCATION:

- Ph.D.** Zoology, University of Florida, Gainesville, FL. 2004.
M.Sc. Zoology, University of Florida, Gainesville, FL. 2001.
B.S. Biology, State University of New York at Oswego, NY. *Cum laude*, 1992.
A.A.S. Veterinary Technology, State University of New York at Canton, NY. *Magna cum laude*, 1990.

RESEARCH INTERESTS:

- The ecology and conservation of amphibians and reptiles.
 Vertebrate reproductive endocrinology, physiology, and morphology.
 The effects of environmental contaminants on vertebrate reproductive anatomy and physiology.

TEACHING EXPERIENCE:

- 2004 – present. Associate Professor, Francis Marion University.**
BIOL 499: Senior Seminar (8 semesters, 331 students)
BIOL 236: Human Physiology (16 semesters, 1150 students)
BIOL 236L: Human Physiology Laboratory (16 semesters, 988 students)
BIOL 213: Biology of Sex (7 semesters, 409 students)
BIOL 205: Human Anatomy (13 semesters, 559 students)
BIOL 205L: Human Anatomy Laboratory (13 semesters, 559 students)
GS 200: Gender Studies (1 semester, 25 students)
 GS 200: Guest Lectures (4 lectures, 95 students)
BIOL 104: Human Biology (7 semesters, 404 students)
BIOL 104L: Human Biology Laboratory (5 semesters, 124 students)
BIOL 103L: Environmental Biology Laboratory (2 semesters, 42 students)
- 1996 – 2004. Teaching Assistant, University of Florida (UF).**
Biological Sciences Laboratory (8 semesters, 160 students)
Animal Physiology Laboratory (6 semesters, 216 students)
- 1999 – 2003. Guest Lecturer, UF.**
Ecology, Evolution, and Behavior
Biology in Pop Culture
Animal Physiology
- 2002. Discussion Leader, UF**
Animal Physiology (1 semester, 54 students)

PUBLICATIONS:

2016. **Barbeau, T.** Authored chapter (artwork and text) on the Reproductive System in *Physiology: A Student's Self-Test Coloring Book* 1st Ed., by James W. Hicks, Quid Publishing, UK.
2011. **Barbeau, T.** *Human Anatomy Laboratory Manual, 2e.*; McGraw-Hill Co.
Barbeau, T., V Bauer, J. Camper, E. Eaton, P. King, T. Knowles, L. Pike, G. Pryor, D. Scarborough, T. Shannon, and

- L. Turner. Human Biology Laboratory Manual(Bio104L), 6e.
2007. **Barbeau, T.R.** and L.J. Guillette, Jr. Altered Ovarian Steroids in *Xenopus laevis* Exposed to Environmentally Relevant Concentrations of Nitrate. *Journal of Herpetology* 44(4):590-596.
2007. **Barbeau, T.** *Human Anatomy Laboratory Manual, 1e.*; McGraw-Hill Co.
2006. Edwards, T.M., K.A. McCoy, **T. Barbeau**, J.M. Thro, and L.J. Guillette, Jr. Environmental Context Determines Nitrate Toxicity in Southern Toad (*Bufo terrestris*) tadpoles. *Aquatic Toxicology* 78:50-58.
2006. **Barbeau, T.R.**, V. Bauer, J. Camper, D. Hildreth, P. King, T. Knowles, L. Pike, G. Pryor, T. Roop, D. Scarborough, and T. Shannon. *Human Biology Laboratory Manual 5e.*; McGraw Hill Co.
2005. **Barbeau, T.R.** and Lillywhite, H.B. Wiping behaviors associated with cutaneous lipids in hylid tree frogs of Florida. *Journal of Experimental Biology* 208:2147-2156.
2004. **Barbeau, T.R.** and G.S. Pryor. Academic job search diary (3-part series). *The Chronicle of Higher Education*.
1999. **Barbeau, T.R.** Dermal lipids in the skin of Florida hylid frogs. *Comparative Biochemistry and Physiology* 124:29.
1998. **Barbeau, T.R.** Iridophore-associated lipids in the skin of hylid frogs. *American Zoologist* 37(5):204.
1997. **Barbeau, T.R.** and H.B. Lillywhite. Wiping behavior in hylid frogs. *American Zoologist* 37(5):34.

TEXTBOOK CONTRIBUTIONS:

2015. Barbeau, T. Ch. 19 (Reproduction) in *The Anatomy Student's Self-Test Coloring Book* 1st Ed., Quid Publishing, UK.
2008. Barbeau, T. *Human Biology: Concepts, Applications, and Issues, 3e.*, by Goodenough et al.; Pearson/Benjamin Cummings Co.
- Barbeau, T. *Environmental Science: A Study of Interrelationships, 12e.*, by Enger and Smith; McGraw-Hill Co.

SCIENCE INTERVIEWS (PUBLISHED AND WEB):

- 2018 Interviewed by Matthew Robertson, Morning News, Florence S.C. regarding the Pie a Professor for Pets Fundraiser for the Marion County Humane Society.
- 2017 Interviewed by Matthew Robertson, Morning News, Florence S.C. regarding the Raptor Demonstration, hosted by the FMU Pre-Vet Club.
2011. Interviewed by Pamela Pia, as a scientific consultant for an article on animal senses, *U.S. News and World Report*.
2010. Interviewed by Jackie Adams for *Science World*. "Animal Vision Revealed."
2008. Interviewed by Janet Raloff for *Science News*. "A New Would-Be Hormone in Water."
2008. Interviewed by Jessica Sherry for Optomen Productions Co. for a television program on the "History of Skin" as part of an Evolution series on the History Channel.
2008. Interviewed by Kim Gailliard for *The Patriot News*. "Students to Present Research at Symposia."
2005. Interviewed by Patricia Janes for *Science World*. "It's Not Easy Being Green."

PRESENTATIONS, INVITED TALKS, AND CONFERENCES ATTENDED:

2014. Darlington County Library Educational Presentation: "The Biology of Reptiles"
Darlington County Library Educational Presentation: "Modern Homesteading"
Pee Dee Rural Science and History Day, Clemson University Pee Dee Research and Education Center, Florence, SC. "Reptile Education Presentation"
2010. FMU Science Colloquium. "A five-year study of the effects of forest logging on populations of reptiles and amphibians in Florence County, SC."
2009. Biology Club, FMU Department of Biology. "What can I do with a Biology degree?"
2008. Boys and Girls Club of the Pee Dee Summer Science Camp (grades 3 – 6). "Amphibians and Reptiles." South Carolina BioEnergy Summit, Pee Dee Research and Education Center, Florence, SC.
2007. USDA 9th Annual Customer/Partner Dialogue Workshop; Coastal Plains Soil, Water, and Plant Research Center, Florence, SC.
R.A.I.N. Conference III, Pee Dee Research and Education Center, Florence, SC.
2006. Sierra Club, Florence, S.C. "Environmental endocrine disruptors and amphibian reproduction."
USDA 8th Annual Customer/Partner Dialogue Workshop; Coastal Plains Soil, Water, and Plant Research Center, Florence, SC.
2005. South Carolina Muscadine Initiative, Pee Dee Research and Education Center, Florence, SC.

2004. Society for Integrative and Comparative Biology, New Orleans, LA. *"Decreased gonadal steroidogenesis and increased plasma IGF-1 in frogs exposed to aquatic nitrates."* Received honorable mention under the Aubrey Gorbman Award for Best Student Oral Presentation.
FMU Science Colloquium. *"Effects of environmental contaminants on reproductive anatomy in frogs."*
2003. e.hormone conference, New Orleans, LA. *"Decreased gonadal steroidogenesis and increased plasma insulin like growth factor-1 in frogs exposed to environmentally-relevant doses of aquatic nitrates."*
The Gainesville Herpetological Society, Gainesville, FL. *"Aquatic nitrates: A threat to amphibian reproduction?"*
Department of Zoology Ecolunch, University of Florida, Gainesville, FL. *"The function of insulin-like growth factor-1 in amphibian reproduction."*
2000. e.hormone conference, New Orleans, LA. *"Amphibians as sentinels for assessing the effects of endocrine disruptors in the environment."*
1999. Society for Integrative and Comparative Biology, Denver, CO. *"Iridophore-associated lipids in the skin of hylid frogs."*
All Florida Herpetological Conference, Gainesville, FL. *"Lipids and wiping behavior in hylid frogs: Adaptations for life in the trees."*
Fifth International Congress of Comparative Physiology and Biochemistry, Calgary, Alberta, Canada. *"Dermal lipids in the skin of Florida hylid frogs."*
The Gainesville Herpetological Society, Gainesville, FL. *"Florida hylids: adaptations for an arboreal life."*
Florida State Museum of Natural History, Gainesville, FL. 3-Day Instructional Seminar. *"The identification and natural history of reptiles and amphibians in Florida."*
1998. Conference on Ecosystems Restoration and Creation, Tampa, FL. *"Creation of temporary ponds for breeding amphibians."*
Society for Integrative and Comparative Biology, Boston, MA. *"Wiping behavior in Florida hylid frogs."*
University of Florida Natural Areas Teaching Lab Advisory Panel, Gainesville, FL. *"Land management recommendations for the creation of temporary ponds for amphibians."*
Presenter, Lake Butler Elementary School, FL. *"Biology of frogs and toads."*

AWARDS and NOMINATIONS:

- Awarded the Advisor of the Year for 2019 – 2020. FMU Student Life Awards
Awarded the FMU 2008 – 2009 Award for Excellence in Teaching
Nominated for the FMU 2007 – 2008 Award for Excellence in Teaching

GRANTS AWARDED:

FMU

2017. Professional Development, FMU (\$2,100).
2013. Professional Development, FMU (\$2,750).
2011. Professional Development, FMU (\$2,400).
2010. Professional Development, FMU (\$2,100).
Information Technology Foundation Grant, FMU (\$1,997). Principle Investigator.
2009. Professional Development, FMU (\$1,850).
2008. Professional Development, FMU (\$2,200).
Summer Research Stipend, FMU (\$4,000).
2007. American Wildlife Conservation Foundation (\$1,985). Principle Investigator.
Information Technology Foundation Grant, FMU (\$1,000). Co-Investigator.
Professional Development, FMU (\$2,200).
Summer Research Stipend, FMU (\$4,000).
2006. Professional Development, FMU (\$2,095).
2005. Professional Development, FMU (\$1,900).
Information Technology Foundation Grant, FMU (\$10,000). Principle Investigator.
Summer Grant for New Course Development, FMU (\$1000).
2004. Professional Development, FMU (\$1,895).

University of Florida

2003. Travel Grant, Department of Zoology, University of Florida (\$300).
Travel Grant, College of Liberal Arts and Sciences (\$250).
2002. Declining Amphibians Population Task Force (\$1,880). Principle Investigator.
Brian Riewald Memorial Grant, Department of Zoology (\$500).
2001. Sigma Xi Grants in Aid of Research (\$900). Principle Investigator.
1999. Sigma Xi Grants in Aid of Research (\$900). Principle Investigator.
1999. Travel Grant, Department of Zoology (\$300).
1998. Grinter Fellowship (\$6,000).
1998. Travel Grant, Graduate Student Council (\$300).

Additional Grants Submitted:

2010. Information Technology Foundation Grant (\$5,705). Principle Investigator.
2009. Information Technology Foundation Grant (\$5,821). Principle Investigator.
2008. Information Technology Foundation Grant (\$8,700). Co-Investigator.
2007. Merck / AAAS Undergraduate Science Research Program Grant (\$60,000). Co-Contributor & faculty mentor.
2006. American Wildlife Research Foundation (\$2,000). Principle Investigator.
National Fish and Wildlife Foundation (\$6,750). Principle Investigator.
Merck / AAAS Undergraduate Science Research Program Grant (\$60,000). Co-Contributor.
Microsoft Tablet Technology in Higher Education (\$140,000). Co-Contributor.

PROFESSIONAL SERVICE:**Journal Reviewer**

- 2006 — 2018. *General and Comparative Endocrinology* (14 articles)
2007. *Journal of the Institute for Laboratory Animal Research* (1 article)
2006. *Comparative Biochemistry and Physiology* (1 article)

Textbook Reviewer

2015. *Human Physiology Digital Study Modules, 1st e.*; Pearson/Benjamin Cummings Co.
2014. *Mechanisms and Logic in Human Physiology*; Jones and Bartlett Co.
2009. *Human Anatomy, 7e.*, by Martini, Timmons, and Tallitsch; Pearson/Benjamin Cummings Co.
Human Reproductive Biology, 4e., by Jones and Lopez; Academic Press/Elsevier.
Visualizing Human Anatomy Laboratory Manual, 1e.; John Wiley & Sons, Inc.
2008. *Human Biology, 8e.*, by Star and McMillan; Brooks-Cole Pub.
Human Biology: Evolution and Applications, 1e., by Windelspecht; McGraw-Hill Co.
Environmental Science: A Study of Interrelationships, 11e., by Enger and Smith; McGraw-Hill Co.
2007. *Biology of the Human Species, 1e.*, by Stanford and Allen; McGraw-Hill Co.
Environmental Science, 2e., by Kaufmann/Cleveland; McGraw-Hill Co.
Human Anatomy Laboratory Manual, 1e., by Eckel; McGraw-Hill Co.
Human Biology, 1e., by Belk and Borden; Pearson/Benjamin Cummings Co.
2006. *Biology of Life on Earth, 8e.*, by Audersirk et al.; Pearson/Benjamin Cummings Co.
Biology: Science for Life Laboratory Manual, 2e., by Belk & Borden; Pearson/Benjamin Cummings Co.
Human Biology, 1e., by Lewis; McGraw-Hill ill Co.
Human Biology: Concepts, Applications, and Issues, 2e., by Goodenough et al.; Pearson/Benjamin Cummings Co.
Human Biology, 3e., by Johnson; Pearson/Benjamin Cummings Co.
Human Biology, 11e., by Mader; McGraw-Hill Co.
Human Biology Laboratory Manual, 10e., by Mader; McGraw-Hill Co.
Inquiry into Life Laboratory Manual, 12e., by Mader; McGraw-Hill Co.
Inquiry into Life Laboratory Manual, 11e., by Mader; McGraw-Hill Co.
2005. *Environmental Science and Policy - An Ecosystems Approach*; Pearson/Benjamin Cummings Co.
Herpetological Dictionary, by Lillywhite; Kreiger Pub. Co.
Human Anatomy, 1e., by McKinley and O'Loughlin; McGraw-Hill Co.

Human Biology, 9e., by Mader; McGraw-Hill Co.

Science of Life, 2e., by Borden and Belk; Pearson/Benjamin Cummings Co.

ACADEMIC SERVICE:

University-Wide

FMU

- 2018— **present.** Faculty Grievance Committee
- 2014 — **present.** Faculty Advisor for FMU Pre-Vet Club
- 2018. Invited participant in STEM Panel of faculty scientists for Center of Excellence for College and Career Readiness Activate Academy
 - Participant in FMU Training for Club Officers and Advisors
- 2017. Participant in FMU Training for Club Officers and Advisors
- 2016. Participant in FMU Training for Club Officers and Advisors
 - Faculty volunteer. FMU Scholarship Interviews.
- 2015. Academic Freedom and Tenure Grievance Committee (3-year position)
 - Faculty volunteer. FMU Scholarship Interviews.
 - Participant in FMU Training for Club Officers and Advisors
- 2014. Ad Hoc Committee Member: FMU Honors Council.
 - Faculty volunteer. FMU Scholarship Interviews.
 - Started the FMU Pre-Vet Club.
- 2013. Created and serve as webmaster for the FMU Vagina Monologues Program Website. (<http://departments.fmarion.edu/vweek>)
- 2012. Ad Hoc Committee Member (Chair). FMU Honors Council.
- 2011. Faculty volunteer. FMU Scholarship Interviews.
- 2010. Faculty volunteer. FMU Scholarship Interviews.
- 2009 — 2014. FMU Faculty Governance, College of Liberal Arts Elections Committee (Chair, 2011-2013).
- 2009. Faculty volunteer. FMU Scholarship Interviews.
- 2007 — 2009. FMU Faculty Governance, Grade Appeals Committee.

University of Florida

- 1997 — 1999. Committee Member. Graduate Student Orientation Program.
- 1998. Organizer and Co-Chair. Graduate Student Symposium.

Departmental

FMU

- 2005 — **present.** Coordinator: Program for Undergraduate Research Experience (P.U.R.E.).
- 2008 — **present.** Coordinator: Pre-Veterinary Program.
- 2010 — **present.** Senior Seminar (Biol 499) Committee.
- 2013. — **present.** Created and serve as Webmaster for the P.U.R.E. Program Webpage. (http://people.fmarion.edu/tbarbeau/PURE_symposium.htm)
- 2014. — **present.** Created and serve as Webmaster for the Pre-Veterinary Program Webpage. (<http://people.fmarion.edu/tbarbeau/prevet.htm>)
- 2017 — **present.** Developed, and coordinate, a new Biology course: The Pre-Veterinary Internship (Bio 490).
- 2018. Pre-Veterinary Internship (Bio 490) Advisor for 3 students. Supporting facilities include Spay and Neuter Prevention of the Pee Dee (SNIP), and Avian Conservation Center: Center for Birds of Prey of Awendaw, S.C.
 - Introducer of Kendall Berry, Biology student, to the Omicron Delta Kappa Honor Society
- 2017. Academic Advisor for 37 Biology, Pre-Nursing, and Pre-Veterinary majors.
 - Organized a guest speaker, Marita Anderson, DVM (Westside Veterinary Clinic) to come to campus for the FMU Pre-Vet Club.
 - Participant: FMU Homecoming Day Parade with the Pre-Vet Club.
 - Participant: New student move-in.
 - Pre-Veterinary Internship (Bio 490) Advisor for 3 student interns. Supporting facilities include the Spay and

-
- Neuter Prevention of the Pee Dee (SNIP) and Windsor Animal Hospital of Florence, S.C.
2016. Academic Advisor: 36 Biology, Pre-Nursing, and Pre-Veterinary majors.
Organized guest speaker, Joanne Ludwick of Narrow Way Ranch of Hartsville, S.C. for presentation on "*Pet Therapy*" for the Pre-Vet Club.
Organized guest speaker, Marita Anderson, DVM of Westside Animal Hospital, Florence, S.C. for presentation on "*Exotic Pets: Education and Husbandry*" for the Pre-Vet Club.
Organized guest speaker, Tyler Wright, for presentation on "*Reptile and Amphibian Husbandry*" for the Pre-Vet Club.
Organized guest speaker for Departmental Science Symposium, Dr. Tyrone Hayes of University of Berkley for presentation on "*Envrionmental Contaminants: Amphibians as Sentinels for Human Risks*"
2015. Academic Advisor: 41 Biology, Pre-Nursing, and Pre-Veterinary majors.
Committee Member: Tenure-Track Anatomy and Physiology Faculty Search.
Organized a guest speaker from SNIP (Spay Neuter Intervention for the Pee Dee) to come to campus for the FMU Pre-Vet Club.
Organized a guest speaker, Marita Anderson, DVM (Westside Veterinary Clinic) to come to campus for the FMU Pre-Vet Club.
Participant: FMU Homecoming Day Parade with the Pre-Vet Club.
2014. Academic Advisor: 41 Biology, Pre-Nursing, and Pre-Veterinary majors.
Participated in student athlete interview, with FMU faculty from Men's Soccer Team.
2013. Academic Advisor: 41 Biology, Pre-Nursing, and Pre-Veterinary majors.
2012. Academic Advisor: 49 Biology, Pre-Nursing, and Pre-Veterinary majors.
Committee Member: Non-Tenure Track Faculty Search.
2011. Academic Advisor. 36 Biology, Pre-Nursing, and Pre-Veterinary majors.
Committee Member: Tenure-Track Physiology Faculty Search.
Committee member: Tenure-Track Anatomy and Physiology Faculty Search.
Committee Member: Non-Tenure-Track Biology Faculty Search.
2010. Academic Advisor: 36 Biology, Pre-Nursing, and Pre-Veterinary majors.
Participant and Faculty Host Speaker: Biology Open House (October).
2009. Academic Advisor: 49 Biology, Pre-Nursing, and Pre-Veterinary majors.
Faculty Mentor: Dr. Lori Turner, Department of Biology.
Participant: New student move-in.
- 2008 — 2016. Course Coordinator: Human Biology (Bio 104).
2008. Academic Advisor: 48 Biology, Pre-nursing, and Pre-Veterinary majors.
Participant and Faculty Host Speaker: Biology Open House, October, 2010.
Volunteer: New student move-in.
2007. Academic Advisor: 40 Biology and Pre-Nursing majors.
Committee Member: Post-Doctoral Teacher Training Program (PTTP).
Committee Member: Non-Tenure-Track Introductory Biology Faculty Search.
Committee Member: General Education Assessment.
Faculty Host for Dr. Scott Levick. South Carolina EPSCoR / IDeA Post-Doctoral Teacher Training Program.
Faculty Mentor: Dr. Erin Eaton, Department of Biology.
Participant: Open House.
2006. Academic Advisor: 68 Biology and Pre-Nursing majors.
Committee Member: Tenure Track Anatomy and Physiology Faculty Search.
Ad Hoc Committee Member: Memorandum of Understanding with Clemson University Masters Program.
2005. Academic Advisor: 69 Biology and Pre-Nursing majors.
Committee Member: Chemical Hygiene Committee.
Committee Member: Space and Use Committee.
Faculty Mentor: Rhonda Brogdon, Department of Nursing.
FMU Science Colloquium speaker recruitment of Dr. Kent Vliet.
Participant: The South Carolina Muscadine Initiative, Pee Dee Research and Education Center, Florence, SC.
Participant: FMU Orientation Advising and Pre-Registration.

Participant: Open House (Jan., Oct., and Nov.).

2004. Participant: Open House (Nov.).

Participant: FMU student move-in.

University of Florida

2001 — 2003. Coordinator: Undergraduate Research Assistantship Program.

1998 — 2003. Committee Member: Department of Zoology Undergraduate Committee.

COMMUNITY SERVICE:

- 2020 Supply Drive for the Black Creek Wildlife Center, Hartsville, SC. Organized by the Pre-Vet Club. Scheduled for Fall semester.
Fundraiser for the Black Creek Wildlife Center. Organized by the Pre-Vet Club (Spring semester)
- 2019 Organized "Pause 4 Paws" event on FMU campus, with Florence Area Humane Society. (Spring semester)
Organized Guest Speaker, Nicole Poston (FMU alum) for the Pre-Vet Club (Spring semester)
Supply Drive for the DogGone Shelter Intervention, Latta, SC. Organized by the Pre-Vet Club (Spring semester)
Organized Pre-Vet Club hosting of a falconry demonstration, by a licensed falconer for general public, FMU faculty and students. (Spring semester)
Organized "Pause 4 Paws" event on FMU campus, with Florence Area Humane Society. (Fall semester)
Supply Drive for Lucky Dog Rescue, Florence, SC. Organized by the Pre-Vet Club (Fall semester)
Organized Guest Speaker, Joanne Ludwick, pet therapist from Narrow Way Ranch, Hartsville, SC., for the Pre-Vet Club. (Fall semester)
2018. Mole Day Fundraiser for the Darlington County Human Society (**DCHS**) Bridge Program, hosted by the FMU Pre-Vet Club, American Chemistry Society Club, Biology Club, and Green Club. *Scheduled for Oct 23, 2018.*
Cans for Critters Drive for the DCHS Bridge Program, hosted by the FMU Pre-Vet Club, American Chemistry Society Club, Biology Club, and Green Club. *Scheduled for Oct 8 – Nov 30, 2018.*
Supply Drive for the Florence Area Humane Society (**FAHS**), hosted by the FMU Pre-Vet Club. *Scheduled for Oct 8 – Nov 30, 2018*
Pie a Professor for Pets Fundraiser for Marion County Humane Society (**MCHS**) of Marion, SC, hosted by FMU Pre-Vet Club on FMU on campus. \$80 raised.
Supply drive for MCHS of Marion, SC, hosted by FMU Pre-Vet Club on campus. Approximately \$684 in supplies raised.
2017. Assisted Jane Boswell, Director of the FAHS, organize a meeting, on FMU campus, of the Directors of 8 Humane Societies (between North Carolina and South Carolina) to discuss creating Bridge Program connecting these organizations to help save and transport stray or abandoned animals to shelters and forever homes.
Organized a representative from the national organization WREN (Women's Rights Empowerment Network) to speak about "Advocacy 101" on FMU campus, for the general public, faculty, and students, for Gender Awareness Week.
Organized Pre-Vet Club hosting of a falconry demonstration, at Baptist Collegiate Ministries, by a licensed falconer for general public, FMU faculty and students
Organized two supply drives for the DCHS of Darlington, SC and the MCHS of Marion of SC. Approximately \$935 in supplies raised.
Organized a guest speaker, Joanne Ludwick of Narrow Way Ranch of Hartsville, S.C., to speak to Pre-Vet Club about pet therapy animals.
2016. Pie-a-Professor-for-Pets fundraiser for the DogGone Shelter Intervention of Latta, SC. (Oct 20th), hosted by the FMU Pre-Vet Club. (\$261 raised)
Organized two supply drives for the DCHS of Darlington, SC and DogGone Shelter Intervention of Latta, SC. Approximately \$543 in supplies raised.
Volunteer for post-Hurricane Matthew cleanup and animal care for the Marion Humane Society of Marion, SC. (Oct 22)
2015. Organized two supply drives for the DCHS of Darlington, SC. Approximately \$694 in supplies raised.
Pie-a-Professor-for-Pets fundraiser for the DCHS of Darlington, SC, hosted by the FMU Pre-Vet Club (\$258 raised)

2014. Organized a supply drive for the FAHS of Florence, SC. Approximately \$842 in supplies raised.
Organized a guest speaker, Cynthia Davis, DVM (Companion Veterinary Care Center), to come to campus for the FMU Pre-Vet Club.
2013. Volunteer and participant for *V-Week* at FMU.
2011. Volunteer and participant for *V-Week* at FMU.
2010. Volunteer for *V-Week* at FMU. (*V-Week* is national movement to end violence against women.)
2006. Science Fair Judge. Sand Hills (Region IV) Science Fair.
2005. Faculty Host. Marlboro County Infinity High School Honor Students attended my Human Anatomy class.
Science Fair Judge. Sand Hills (Region IV) Science Fair.
1998. Three-Day Seminar Speaker: Florida Museum of Natural History (30 museum docents).
Guest Seminar Speaker. Lake Butler Elementary School, FL. "Biology of frogs and toads". (400 students).
Founder of the Temporary Amphibian Breeding Ponds Committee. Gainesville, FL.

INTERNATIONAL SERVICE:

1998. – 2002. Graduate / Post-Doctoral International Representative for the Society for Integrative and Comparative Biology: Division of Animal Behavior.

OTHER NON-ACADEMIC PROFESSIONAL SERVICE:

2018. Pathological examination service of a parasite within a tumor. (Sample donated by Westside Veterinary Clinic, Florence, S.C.) Collaborative project with Guilherme G. Verocai, DVM and Director of Parasitology Diagnostic Laboratory Department of Infectious Diseases, College of Veterinary Medicine University of Georgia
2017. Pathological examination service of tumor biopsy. (Sample donated by Westside Veterinary Clinic, Florence, S.C.)
2013. Pathological examination service of tumor biopsies from samples donated by Companion Veterinary Care Center, Florence, S.C.
- 1997 — 1999. Consultant. Natural Areas Teaching Laboratory: Environmental Land-Use. (UF).
- 1992 — 1996. Head Veterinary Technician. Fruit Valley Veterinary Clinic, Oswego, N.Y.
1989. Veterinary Technician. Burnet Park Zoo, Syracuse, N.Y.
1988. Veterinary Technician. Westport Veterinary Clinic, Plattsburg, N.Y.

PROFESSIONAL LICENSES, CERTIFICATES, AND PERMITS:

- 2016 — **present.** CPR certified by American Heart Association.
- 2005 — **present.** South Carolina Department of Natural Resources Salvage Permit.
1997. Graduate Teaching Assistant Training Program Certification, UF.
- 1990 — **present.** Veterinary Medical Technician License (License #001866).

MEMBERSHIPS:

- 2009 — **present.** National Association of Biology Teachers.
- 2008 — **present.** FMU Gamma Sigma Alliance Safe Zone.
- 2014 — **present.** Humane Society Veterinary Medical Association
- 2014 — **present.** Faculty Member: NAACP
- 2007 — 2014. National Science Teachers Association.
- 2011 — 2014. Florence, S.C. Bee-Keeper's Association.
- 1997 — 2000. Society for the Study of Amphibians and Reptiles.
- 1995 — 2004. Society for Integrative and Comparative Biology.

UNDERGRADUATE HONORS THESIS ADVISOR/READER (FMU)

- 2108 Advisor for Kendall Berry. *Scheduled for Spring 2019*
- 2017 Advisor for Rachel Fleschner. *"Mutations of the vWF Gene and Their Effect on the von Willebrand's Disease Phenotype in Shetland Sheepdogs"*
- 2016 Thesis Reader for Kelly Elliot. *"A Comparative Analysis of Neonatal Healthcare Systems"*

UNDERGRADUATE HONORS THESIS ADVISOR (UNIVERSITY OF FLORIDA):

2003. Caroline Keicher, *"Effects of steroid and growth factor surgical implants on Bullfrog (Rana catesbeiana) oviduct morphology."*
2003. Pamela Moses, *"Seasonal variation in reproductive morphology in a wild population of Pig Frogs (Rana grylio)."*
2003. Amanda Mulligan, *The effect of nitrates and nitrites on in vitro steroidogenesis in female Pig Frogs (Rana grylio)."*

UNDERGRADUATE RESEARCH MENTOR (FMU)

2018. Alexis Fowler. *"Reproductive morphology in the Two-Toed Amphiuma (Amphiuma means) Research presented at 13th Annual PURE Symposium, Spring Session.*
Tyler Wright. *"Pathological examination of a parasite found within a tumor in a Blood Python"*
2017. Tyler Wright. *"Pathological examination of an oral tumor from an Eastern Hognose snake" Research Presented at 13th Annual PURE Symposium, Fall Session.*
Tyler Wright. *"Reproductive morphology in the Two-Toed Amphiuma (Amphiuma means).*
2016. Kadesha Johnson. *"Reproductive morphology of male Two-Toed Amphiuma (Amphiuma means). Research presented at the 12th Annual PURE Symposium, Fall Session.*
2015. Ashley Harris. *"Reproductive morphology in the Two-Toed Amphiuma (Amphiuma means). Research presented at the 10th Annual PURE Symposium, Fall Session.*
2015. Amy Lee Kirby. *"Morphology of the kidneys, liver, and spleen in the Two-Toed Amphiuma."*
Lexus Cherry. *"A literature review of factors influencing inbreeding depression in domestic dogs."*
2013. Bria Little and Chelsea Hall. *"A histo-pathological examination of tumor biopsies donated for analysis by Companion Veterinary Hospital of Florence, SC."*
2012. Paden Capps. *"Comparative anatomy of seminiferous and epididymis tissues among various breeds of domestic canines."*
2011. Brad Phillips. *"Comparative testicular morphology among various breeds of domestic canines."*
- 2008 — 2009. Alecea Manghi. *"Examining extracted and unextracted urine samples for progesterone and oxytocin using enzyme immunoassay (EIA)." Project funded by a Merck / AAAS Undergraduate Science Research Program Grant.*
2009. Anita Fields. *"Extraction techniques for examining urine samples for oxytocin and cortisol using EIA."*
Haley Legette. *"Extraction techniques for examining urine samples for oxytocin and testosterone using EIA."*
2008. Kirsten Hiortdahl. *"A histological analysis of polyvinyl alcohol beads used in the denitrification of hog lagoon wastewater."*
2008. Matt Maynard. *"Investigation of waterways at risk for contamination with effluent discharged from a pulp mill in Florence county."*
2007. Matthew McElveen. *"Validation of a progesterone EIA kit for human urine samples."*
2006. Stephanie Miller. (2 semesters) *"Monitoring reptile and amphibian diversity in disturbed woodland habitats using drift fences." Research presented at the 1st Annual PURE Symposium.*
Jody Rhoderick. *"Monitoring reptile and amphibian diversity in disturbed woodland habitats using drift fences."*
Katie Riley. *"Monitoring reptile and amphibian diversity in disturbed woodland habitats using drift fences."*
Sara Brigman. *"Monitoring reptile and amphibian diversity in disturbed woodland habitats using drift fences."*
Kate Anderson. *"Oviduct morphology in Pig frogs, Rana grylio, from a North-Central Florida lake."*
Taylor Poston. *"The reproductive morphology and field ecology of the Black Widow spider (Latrodectus mactans) in South Carolina."*
2006. Emy Yarborough. *"Oviduct morphology in Pig frogs, Rana grylio, from a North-Central Florida lake."*
2005. Brittney Newsome. *"The effect of nitrate exposure on testis morphology in Bullfrogs (Rana catesbeiana)."*

2000 — 2004. University of Florida

- Arika Brown
- Leo Choe
- Brandy Cunningham
- David Iglesias
- Axel Lucca
- Courtney Marler
- Tim Buhi
- Lauren Farrar
- Kapila Karakota
- Dana Rachael LaKam
- Maria Samuel
- Sonia Parikh

- Amy McGreane
- Wilhelmina Randtke
- Jason Bridge
- Reshma Patel
- Catherine Vallance
- Kyu Mee Yo

HIGH SCHOOL STUDENT RESEARCH CONSULTANT:

2009. Ja Ja Liao (Wilson High School, Florence, S.C.). Consultation was provided to help develop a research project to examine the effect of the phthalate (DEHP) on growth and development of *Caenorhabditis elegans*.