TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Marilyn Rhett Banta **Title:** Professor of Instruction

B. Educational Background

Degree	Year	University	Major	Thesis/Dissertation
Ph.D.	2000	University of Nevada, Reno	Ecology, Evolution, and Conservation Biology	
M.S.	1991	Texas A&M University	Zoology	
B.A.	1989	Willamette University	Biology, Spanish	

C. University Experience

Position	University	Dates
Professor of Instruction	Texas State University	2024-current
Senior Lecturer	Texas State University	2010-2024
Lecturer	Texas State University	2008-2010
Assistant Professor	University of Northern Colorado	2002-2008
Postdoctoral Fellow	Indiana State University	2000-2002
Lecturer	Indiana State University	2000-2002
Teaching Assistant	University of Nevada, Reno	1994-2000
Teaching Assistant	Texas A&M University	1990-1991

D. Relevant Professional Experience

Position	Entity	Dates
Senior Research Technician	Johns Hopkins School of Medicine, Division of Pulmonary and Critical Care Medicine	1993-1994
Lab Technician II	Johns Hopkins School of Medicine, Division of Pulmonary and Critical Care Medicine	1991-1993

II. TEACHING

A. Teaching Honors and Awards:
Mortar Board – Outstanding Teacher Award (University of Northern Colorado)
Distinguished Teaching Assistant (University of Nevada)

B. Courses Taught:
Classes and Labs – Primary Instructor of Record:

Human Physiology – BIO 3426 (Texas State University)
University Seminar – US 1100 (Texas State University)
Environmental Physiology of Animals – BIO 5350J/5339 (Texas State University)
Environmental Physiology of Animals – BIO 4350J/4339 (Texas State University)
Human Physiology and Anatomy – BIO 2430 (Texas State University)
Modern Biology II – BIO 1421 (Texas State University)
Modern Biology I – BIO 1320 (Texas State University)
Animal Physiological Ecology - BIO 466/566 (University of Northern Colorado)
Mammalian Physiology I – BIO 552 (University of Northern Colorado)
Human Physiology lecture - BIO 350 (University of Northern Colorado)
Human Physiology laboratory – BIO 350 (University of Northern Colorado)
Human Anatomy lecture - BIO 341 (University of Northern Colorado)
Human Anatomy laboratory – BIO 341 (University of Northern Colorado)
Biological Perspectives lecture – BIO 101 (University of Northern Colorado)
Advanced Human Anatomy and Physiology lecture BIO 246 (Univ. Northern Colorado)
Advanced Human Anatomy and Physiology lab BIO 246 (Univ. Northern Colorado)
Success in Biology II – BIO 103 (University of Northern Colorado)
Human Aspects of Biology – LIFS 112 (Indiana State University)

Labs and Recitations – Graduate Teaching Assistant:

Human Anatomy and Physiology I – BIOL 223 (University of Nevada)
Human Anatomy and Physiology II – BIOL 224 (University of Nevada)
Principles of Biological Investigation - BIOL 192 (University of Nevada)
Comparative Animal Physiology – BIOL 316 (University of Nevada)
Population Genetics – BIOL 404/604 (University of Nevada)
Mammalian Anatomy (Texas A&M University)

C. Graduate Theses/Dissertations or Exit Committees (if supervisor, please indicate):

Supervisor: James Dye and Greg Mullen (Masters), Deanna Dapolito (Ph.D.- did not finish)
Doctoral Student Committee Member: Bill Heyborne, Jason Katzmann, David Hydock, Jason Shaw, Mark Hayes
Master's Student Committee Member: Cale Czismadi, Jessie Czismadi, Jessica Kiser, Jacqueline Ma, Kate Lopez

D. Courses Prepared and Curriculum Development:

2025 – Human Physiology (Texas State University) – taught for first time in Fall 2025
2023 – US 1100 University Seminar (Texas State University) prepped to teach in Spring 2024, but delayed until Fall 2024
2021 – Human Anatomy BIO 3425 (Texas State University) – I developed this upper-division, majors level human anatomy course with lab in support of biology majors, biology minors, and a wide variety of pre-health students requiring this course as a graduate program prerequisite
2008 – Designed and taught Success in Biology II – BIO 103, 1 credit (University of Northern Colorado) – this course was introduced as part of the curriculum under a Department of Education STEP grant, but it had never been taught until I taught 2 sections in Spring 2008
2004 – Animal Physiological Ecology BIO466/566, 3 credits (University of Northern Colorado) – I developed this double-numbered course (and an accompanying lab) as a new addition to the biology curriculum

E. Funded External Teaching Grants and Contracts:

n/a

F. Submitted, but not Funded, External Teaching Grants and Contracts:

n/a

G. Funded Internal Teaching Grants and Contracts:

n/a

H. Submitted, but not Funded, Internal Teaching Grants and Contracts:

n/a

I. Other:
2002-2008 - Supervised Research for Undergraduates:
M. Roehrs, D. Heikes, R. Eales, K. Carlsten, A. Wiegand, J. Walsh, A. Delgado, A. Littman, B. Phipps, S. Stout, A. Perado, S. Cihura, B. Pelton

2005-2006 McNair Scholar Advisor: Nicki Smith

III. SCHOLARLY/CREATIVE

A. Works in Print

1. Books (if not refereed, please indicate)

a. Scholarly Monographs:

n/a

b. Textbooks:

n/a

c. Edited Books:

n/a

d. Chapters in Books:

Banta, M.R., T. Joanen, and P.J. Weldon. 1992. Foraging responses by the American alligator to meat extracts. In, R.L. Doty and D. Muller-Schwarze (eds.), Chemical Signals in Vertebrates 6, Plenum Press, New York.

e. Creative Books:

n/a

2. Articles

a. Refereed Journal Articles:

Sears, M.W., J.P. Hayes, M.R. Banta, and D. McCormick. 2009. Out in the cold: physiological capacity influences behaviour in deer mice. Functional Ecology 23:774-783.

Bakken, G.S., M.R. Banta, C.M. Higginbotham, and A.J. Lynott. 2006. It's just ducky to be clean: the water repellency and water penetration resistance of swimming mallard ducklings. J. Avian Biology 37:561-571.

Bakken, G.S., M.J. VanSant, A.J. Lynott, and M.R. Banta. 2005. Predicting small endotherm body temperatures from scalp temperatures. Journal of Thermal Biology 30:221-228.

Banta, M.R., A J. Lynott, M.J. VanSant, and G. S. Bakken. 2004. Partitioning heat loss from Mallard ducklings swimming on the air-water interface. Journal of Experimental Biology 207:4551-4557

Banta, M.R., R. Brewer, A. Hansen, H. Ku, K. Pacheco, R. Powers, J. Robinson, and G. Tucker* (*The order of authorship is alphabetical and all authors contributed equally). 2004. An innovative program for cultivating grant writing skills in new faculty members. Journal of Research Administration 35(1):17-24.

Banta, M.R. 2003. Merriam's kangaroo rats (*Dipodomys merriami*) voluntarily choose temperatures that conserve energy rather than water. Physiological and Biochemical Zoology 76:522-532.

Banta, M.R. and D.W. Holcombe. 2002. The effects of thyroxine on various aspects of

metabolism and water turnover in Merriam's kangaroo rat (*Dipodomys merriami*). Journal of Comparative Physiology 172:17-25.

Wiener, C.M., M.R. Banta, M.S. Dowless, N.A. Flavahan, and J.T. Sylvester. 1995. Mechanisms of hypoxic vasodilation in ferret pulmonary arteries. American Journal of Physiology 269:L351-L357.

b. Non-refereed Articles:

Banta, M.R. 2020. The Ws of Letters: How to request letters of evaluation. Apply: The Official Magazine of the Texas Health Education Service. Volume 2:8-9.

Smith, N. and M.R. Banta. 2005. Understanding basal metabolic rate and conductance in Ord's kangaroo rat, *Dipodomoys ordii*. McNair Research Journal. 10:37-50.

3. Abstracts:

Banta, M.R. and N. Smith. 2006. Variation in metabolic rate and thermal conductance in a northern population of a desert-adapted rodent, Ord's kangaroo rat (*Dipodomys ordii*). The Physiologist 49(6):C1-45.

Hayes, J.P., M.W. Sears, M.R. Banta, and C.S O'Connor. 2005. Out in the cold: Physiological performance affects behavior of deer mice. Integrative and Comparative Biology 45(6):1009.

Banta, M.R., J.R. Katzmann and S.P. Mackessy. 2004. Evaporative water loss during ecdysis in snakes from a broad range of habitats. Integrative and Comparative Biology 44(6):674.

Banta, M.R., M.J. Van Sant, and G.S. Bakken. 2004. Evidence for metabolic substitution in swimming mallard (*Anas platyrhynchos*) ducklings. Integrative and Comparative Biology 43(6):1039.

Banta, M.R., A.J. Lynott, C. Higgenbotham, M.J. Van Sant, and G.S. Bakken. 2003. Thermoregulation on the air-water interface: heat loss from swimming mallard ducklings. Integrative and Comparative Biology 42(6):1190-1191

Lynott, A.J., M.R. Banta, and G.S. Bakken. 2003. Estimating the body temperature of swimming mallard ducklings (*Anas platyrhynchos*) with infrared thermography. Integrative and Comparative Biology 42(6):1269.

Banta, M.R. 2001. The effects of temperature on seed movement in the caching rodent, Merriam's kangaroo rat. American Zoologist 41(6):1384-1385.

Lynott, A.J., M.R. Banta, C. M. Higginbotham, and G.S. Bakken. 2001. Thermoregulation in swimming mallard ducklings. American Zoologist 41(6):1512.

Banta, M.R. 1999. Does Merriam's kangaroo rat (*Dipodomys merriami*) select ambient temperatures that allow it to conserve water or energy? American

Zoologist 39:A345.

Banta, M.R. and J.P. Hayes. 1998. Manipulation of thyroxine in a desert-dwelling rodent (*Dipodomys merriami*): ecological and evolutionary implications. American Zoologist 38:A191.

Banta, M.R. 1997. Are field and laboratory water turnover correlated in individual Merriam's kangaroo rats (*Dipodomys merriami*)? American Zoologist 37:A85.

Wiener, C.M., M.R. Banta, and J.T. Sylvester. 1993. Effects of potassium channel inhibitors on hypoxic vasodilation in ferret pulmonary arteries. American Review of Respiratory Disease 147:A272 Supplement S.

Wiener, C.M., M.R. Banta, and J.T. Sylvester. 1993. Effects of glucose on vasomotor responses to severe hypoxia in ferret pulmonary arteries. FASEB Journal 7:A189.

Weldon, P.J. and M.R. Banta. 1990. Chemoreception in the feeding behavior of the American alligator (*Alligator missisippiensis*) American Zoologist 30:A93.

4. Reports:

n/a

5. Book Reviews:

Audesirk, T., Audesirk, G., Byers, B Biology: Life on Earth 10th Edition.
Simon, E. Biology: The Core 1st Edition.
Lanoue, S. The Anatomy Assignment: Level 1 1st Edition.
Mader, S. Biology 10th Edition.
Phelan, J. What is Life? A Guide to Biology 1st Edition, 2nd Edition, 3rd Edition
Fox, S. I., Human Physiology 8th Edition
Pruitt, N.L., L.S. Underwood and W. Surver, Bioinquiry 2nd Edition
Alters, S. Biology: Living and Learning 1st Edition
Longenbaker, S.N. Understanding Human Anatomy and Physiology 6th Edition

6. Manuscripts in Revision or Preparation

Dye, J. and M.R. Banta. Species abundance and activity patterns of rodents in a northern Colorado grassland. To be submitted J. Mammalogy

Dye, J. and M.R. Banta. The frequency and duration of torpor bouts in two species of pocket mice. To be submitted to Physiological and Biochemical Zoology

Smith, N. and M.R. Banta. Seasonal variation in basal metabolic rate and conductance in a northern population of Ord's kangaroo rat. To be submitted to J. Mammalogy

Banta, M.R and J.P.Hayes. Is physiological performance in the laboratory ecologically informative? (In revision)

Banta, M.R. and J.P. Hayes. Experimental manipulation of thyroxine in Merriam's kangaroo rat (*Dipodomys merriami*): an attempt to detect natural selection (In revision)

Banta, M.R., M.J. VanSant, and G.S. Bakken. Metabolic substitution in swimming Mallard ducklings (*Anas platyrhynchos*).

Barber, A.M., S. H. Jenkins, and M.R. Banta. Validation of a method for measuring corticosterone levels in the feces of kangaroo rats. (In revision)

B. Works not in Print

1. Papers Presented at Professional Meetings: (* indicates that I gave the presentation)

2024* Banta, MR and E. Jasso. What the heck Texas? The history and mission of TMDSAS and the resources it offers everyone. National Association of Advisors for the Health Professions, Cincinnati, OH.

2023* Banta, MR and Bartman, M. Development of a home grown CARS workshop for pre-med and pre-dent students. Southeast Association of Advisors for the Health Professions, Tampa, FL

2018* Banta, M.R. and E. Sayer. NAAHP advisor membership categories expansion: a discussion of benefits for community college and independent advisors. National Association of Advisors for the Health Professions, Washington, DC

2018* Banta, M.R. A preliminary analysis of the role that community college coursework plays in medical school admissions. Texas Association of Advisors for the Health Professions, College Station, TX

2017* Banta, M.R. Strategies for helping students prepare for the MCAT. Southeast Association of Advisors for the Health Professions, Charleston, SC

2013* Banta M.R. Training for the big game: efforts to get ourselves, our faculty and our students ready for MCAT2015. Southeast Association of Advisors for the Health Professions, Louisville, KY.

2011* Banta, M.R. and D. vonMiller. Improved pre-health advising through collaboration between faculty pre-health advisors and advising center staff. National Academic Advising Association, Denver, CO.

2008* Banta, M.R. and J.L.Dye. Variability in the use of torpor by two species of pocket mice (Perognathus) in northern Colorado. Society for Integrative and Comparative Biology, San Antonio, TX.

2006* Banta, M.R and N. Smith. Variation in metabolic rate and thermal conductance in a northern population of a desert-adapted rodent, Ord's kangaroo rat (*Dipodomys ordii*). American Physiological Society Intersociety Meeting: Comparative

Physiology 2006, Virginia Beach, VA.

2006 Hayes, J.P., M.W. Sears, C.S. O'Connor, and M.R. Banta. Out in the cold: physiological capacity influences behavior in deer mice Society for Integrative and Comparative Biology, Orlando, FL.

2005 Dye, J.L. and M.R. Banta . 2005. Historical and current trapping records for heteromyid rodents in northern Colorado . 7th Shortgrass Steppe Symposium, Fort Collins, Colorado

2005* Banta, M.R., J.R. Katzmann and S.P. MacKessy. Evaporative water loss during ecdysis in snakes from a broad range of habitats. Society for Integrative and Comparative Biology, San Diego, CA.

2004. VanSant, M.J., M.R. Banta, and G.S. Bakken. Importance of heat loss from the legs of mallard ducklings (*Anas platyrhynchos*). Ecological Society of America, Portland, OR.

2004* Banta, M.R., M.J. Van Sant, and G.S. Bakken. Evidence for metabolic substitution in swimming mallard (*Anas platyrhynchos*) ducklings. Society for Integrative and Comparative Biology, New Orleans, LA.

2003* Banta, M.R., A.J. Lynott, C. Higgenbotham, M. Van Sant, and G.S.Bakken. Thermoregulation on the air-water interface: heat loss from swimming mallard ducklings. Society for Integrative and Comparative Biology. Toronto, Canada.

2003 Lynott, A.J., M.R. Banta, and G.S. Bakken. Estimating the body temperature of swimming mallard ducklings (*Anas platyrhynchos*) with infrared thermography. 2003 Society for Integrative and Comparative Biology, Toronto, Canada.

2002* Banta, M.R. The effects of temperature on seed movement in the caching rodent, Merriam's kangaroo rat. Society for Integrative and Comparative Biology, Anaheim, CA.

2002 Lynott, A.J., M.R. Banta, C. M. Higginbotham, and G.S. Bakken. Thermoregulation in swimming mallard ducklings. Society for Integrative and Comparative Biology, Anaheim, CA.

2000* Banta, M.R. Does Merriam's kangaroo rat (*Dipodomys merriami*) select ambient temperatures that allow it to conserve water or energy? Society for Integrative and Comparative Biology, Atlanta, GA.

1999* Banta, M.R. and J. Auger. Are the mountain ranges of the Great Basin barriers to diserpsal for the desert kangaroo rat (*Dipodomys deserti*)? Great Basin Biological Research Conference, Reno, NV.

1999* Banta, M.R. The effects of exogenous thyroxine on the physiology of Merriam's kangaroo rat (*Dipodomys merriami*). American Society of Mammalogists, Seattle, WA.

1999* Banta, M.R. The effects of thyroxine manipulation in a desert-dwelling rodent (*Dipdomys merriami*). Physiological Ecologists Meeting, Bishop, CA.

1999* Banta, M.R. and J.P. Hayes. Manipulation of thyroxine in a desert-dwelling rodent (*Dipodomys merriami*): ecological and evolutionary implications. Society for Integrative and Comparative Biology, Denver, CO.

1998* Banta, M.R. The effects of thyroxine on metabolism and water balance in Merriam's kangaroo rat. Physiological Ecologists Meetings, Bishop, CA.

1998* Banta, M.R. Are field and laboratory water turnover correlated in individual Merriam's kangaroo rats (*Dipodomys merriami*)? Society for Integrative and Comparative Biology, Boston, MA.

1994 Wiener, C.M., M.R. Banta, N.A. Flavahan, and J.T. Sylvester. Adenosine does not activate ATP-dependent K^+ channels or contribute to hypoxic vasodilation in isolated ferret pulmonary arteries. American Lung Association/American Thoracic Society International Conference, Boston, MA.

1993 Wiener, C.M., M.R. Banta, and J.T. Sylvester. Effects of potassium channel inhibitors on hypoxic vasodilation in ferret pulmonary arteries. American Lung Association/American Thoracic Society International Conference, San Francisco, CA.

1993 Wiener, C.M., M.R. Banta, and J.T. Sylvester. Effects of glucose on vasomotor responses to severe hypoxia in ferret pulmonary arteries. National FASEB Conference, New Orleans, LA.

1990 Weldon, P.J. and M.R. Banta. Chemoreception in the feeding behavior of the American alligator (*Alligator missisippiensis*) American Society of Zoologists, San Antonio, TX.

2. Invited Talks, Lectures, Presentations:

James Madison University
University of Nevada, Reno
University of North Florida
University of Central Oklahoma
Middle Tennessee State University
Texas State University, San Marcos
Butler University
Indiana State University (2)
University of Northern Colorado (2)
University of Texas, Pan American
University of Arkansas, Little Rock

3. Consultancies:

n/a

4. Workshops:

2024 – present – Southeast Association of Advisors for the Health Professions Virtual Engagement Committee – workshop on how to start and oversee a state pre-health association

2024 – Developed and ran a workshop for new Pre-Health Advisors at the 2024 Texas Association of Advisors for the Health Professions Conference, El Paso, TX

2022 – present – Developed and presented a workshop explaining the procedure for obtaining a committee letter for pre-health students at Texas State University

2018 – present – Developed and presented an annual application workshop for pre-health students at Texas State University

2019- Developed and ran a workshop for Experienced Pre-Health Advisors at the 2019 Southeast Association of Advisors for the Health Professions Conference, Memphis, TN

2018 – Developed and ran a workshop for new Pre-Health Advisors at the 2018 National Association of Advisors for the Health Professions Conference, Washington, DC

2017 - Developed and ran a workshop for new Pre-Health Advisors at the 2017 Texas Association of Advisors for the Health Professions Conference, Houston, TX

2016 - Developed and ran a workshop for new Pre-Health Advisors at the 2016 Texas Association of Advisors for the Health Professions Conference, San Antonio, TX

5. Other:

2018-2019 - One of the presenters for a spring and a fall webinar for new members of the National Association of Advisors for the Health Professions
2017 - Gave three presentations at Texas JAMP Round-Up and Texas Med/Dent Round-Up conferences. Presentations were to students and high school/community college advisors
2016 - Moderated a breakout session for new pre-health advisors at the 2016 National Association of Advisors for the Health Professions Conference, Minneapolis, MN
2014 - Invited to serve on a Panel Discussion about improving movement of pre-health students from two-year to four-year universities, 2014 National Association of Advisors for the Health Professions Conference, San Francisco, CA
2012 - Invited to serve on a Panel Discussion about improving communication between Pre-Health Advisors at two-year and four-year universities, 2012 Texas Association of Advisors for the Health Professions Conference, El Paso, TX
2011 - Developed and Chaired a Panel Discussion on Pre-Med Learning Communities at the 2011 Southeast Association of Advisors of Health Professions Conference, Nashville, TN

C. Grants and Contracts

1. Funded External Grants and Contracts:

2026 Joint Admission Medical Program grant (funded, $16,614)
2025 Joint Admission Medical Program grant (funded, $16,032)
2025 Joint Admission Medical Program Special Grant program (funded, $6,000)
2024 Joint Admission Medical Program grant (funded, $15,306)

2023 Joint Admission Medical Program grant (funded, $15,623)
2022 Joint Admission Medical Program grant (funded, $15,294)
2012 HOPES grant from the American Society for Biochemistry and Molecular Biology (funded, $2,000)
2008 Colorado Division of Wildlife (funded, $39,000 – 50% match from UNC)
2007 Colorado Division of Wildlife (funded for $53,000 – 50% match from UNC)
2006 Audubon Society of Greater Denver, Lois Webster Fund (funded $1100)
2004 National Science Foundation Supplemental Grant (funded $9900)
1999 Society for Integrative and Comparative Biology, Grants-in-Aid of Research ($454)
1998 American Society of Mammalogists, Grants-in-Aid of Research (funded $802)
1997 Sigma Xi, Grants-in-Aid of Research (funded $497)
1997 American Museum of Natural History, Theodore Roosevelt Memorial Grant in Aid of Research (funded $502)
1996 American Museum of Natural History, Theodore Roosevelt Memorial Grant in Aid of Research (funded $850)

2. Submitted, but not Funded, External Grants and Contracts:

2008 National Science Foundation (Co-PI) *not funded* ($204,700)
2007 National Science Foundation (Co-PI) *not funded* ($156,000)
2006 Colorado Division of Wildlife *not funded* ($60,000)
2005 National Science Foundation (Co-PI) *not funded* ($619,000)
2004 National Science Foundation, (PI) *not funded* ($520,000)

3. Funded Internal Grants and Contracts:

2008 UNC, Scholarly Activity Travel Fund Grant (funded $800)
2006 UNC, Scholarly Activity Travel Fund Grant (funded $400)
2005 University of Northern Colorado, Summer Graduate Research Assistant Award (funded $3200)
2005 UNC Faculty Research and Publications Board Grant (funded $2489)
2004 UNC, Summer Faculty Research Fellowship (funded $4500)
2003 UNC, Scholarly Activity Travel Fund Grant (funded $400)
2003 UNC Faculty Research and Publications Board Grant (funded $2453)
2002 UNC, Scholarly Activity Travel Fund Grant (funded $300)

4. Submitted, but not Funded, Internal Grants and Contracts:

2008 UNC, Provost Fund for Faculty Scholarship & Professional Development not funded ($9800) – note, this proposal was reviewed and recommended for funding, but I then tendered my resignation at UNC and so funding was withdrawn

D. Fellowships, Awards, Honors:

2022 Carol Baffi-Dugan Service Award (National Association of Advisors for the Health Professions)
2017 Presidential Distinction Award for Service (Texas State University)
2016 Alpha Chi Favorite Professor (Texas State University)

2008 Alpha Delta Pi Favorite Professor (Texas State University)
2005 National Society of Collegiate Scholars Distinguished Member Award
2004 Mortar Board – Outstanding Professor Award
2003 University of Northern Colorado, Sponsored Projects Development Award
Fellow (2 year fellowship for professional grantsmanship development)
2000 Distinguished Teaching Assistant (university wide teaching award - $500, UNR)
2000 First Place, Graduate Student Association Poster Competition ($1000, UNR)
2000 Second Place, Graduate Student Association Paper Competition ($667, UNR)
1999 Certificate of achievement in recognition for outstanding performance in teaching, Graduate School Instructional Development Office (UNR)
1998-1999 Travel Awards (3), Graduate Student Association (UNR) ($100-200 each)
1998 Jerry and Betty Wilson Scholarship ($4000, UNR)
1996 American Association of University Women (AAUW) Scholarship ($300)
1989 Regent's Fellowship, Texas A&M University ($12,000)

IV. SERVICE

A. University:

Repeating Guest Lecturer in HS 1310 (2024- current)
Task force for development of physics courses for life science majors (2021- 2022)
Participated in job search for Assistant Director, Office of Housing and Residence Life (2017)
Member of Planning Committee, Student Health and Wellness Fair (Texas State University) (2017)
Task Force on Living Learning Communities (Texas State University) (2015-2016)
Faculty Advisor for Pre-Med/Pre-Dent Society, Pre Physician Assistant Society, American Dental Student Association, Global Medical Brigades, JAMP Student Organization (all SOC organizations) (Texas State University) (2009-present)
Adjunct Faculty Committee, Member (Texas State University) (2010-2012)
Co-Chair Pre-Health Committee (Texas State University) (2008-present)
Pre-Health Advisor (Texas State University) (2008-present)
Faculty Advisor, Pre-Med/Pre-Dent Living Learning Community (2009-2023)
Presentations at 4 Bobcat Days per year (2009-present)
Grant Reviewer – Sponsored Programs Summer Research Fellowship (UNC)
Faculty Advisor – National Society of College Scholars (UNC)
College of Natural and Health Sciences – Roles and Rewards Task Force (UNC)
College of Natural and Health Sciences – Associate Dean Search Committee (UNC)
College of Natural and Health Sciences – Student Evaluation Development Committee (UNC)

B. Departmental:

Department of Biology – Newly Admitted Student Event volunteer (2025)
Department of Biology – Chair, Search Committee for Asst. Professor of Instruction (2025) (TxSt)
Biology INSIGHT Visit Day – presentation and tour to prospective biology majors (2017) (TxSt)
Member – Non-tenure Line faculty Merit and Performance Committee (2016-present)
Department of Biology – Chair, Search Committee for Senior Lecturer (2016) (TxSt)
Department of Biology – Chair, Search Committee for Senior Lecturer (2014) (TxSt)
Department of Biology – Search Committee for 3 new Lecturers (2012) (TxSt)
School of Biological Science – School Evaluation Committee (2008) (UNC)
School of Biological Sciences – Graduate Committee member (2004-2008), chair (2005-2007) (UNC)

Transfer Evaluator – all Biology majors and minors (2002-2008) (UNC)
Undergraduate advising – biomedical sciences emphasis (~30 students/semester) (UNC)
Search committees for plant physiologist and microbiologist positions (UNC)
Seminar organizer – multiple semesters (UNC)
Search committee (student member) for evolutionary biologist (Univ. Nevada)

C. Community:
Scholarship Evaluation Committee San Marcos High School Diamond Line Dance Team (2025)
Chair, Organizing Committee San Marcos High School Choir Booster Club for Royal Tea (2022)
President and Founder, San Marcos High School Theater Booster Club (2019-2023)
Volunteer at San Marcos Public Library (2018-2019)
San Marcos High School Choir Booster Club (2019 – 2023)
Miller Middle School Choir Booster Club (2016- 2019)
Volunteer at Hays County Food Bank (2016 – 2018)
Co-Manager Elementary Destination Imagination Team (2015-2016)
Volunteer at San Marcos Regional Animal Shelter (2014 – 2015)
Treasurer, Hernandez Elementary PTO (San Marcos, TX) (2013-2014)
Member of San Marcos Consolidated Independent School District (SMCISD) Calendar Committee to develop the 2013-2014 SMCISD academic calendar
President, Hernandez Elementary PTO (San Marcos, TX) (2011-2012, 2012-2013, 2014-2015)
Vice-President, Hernandez Elementary PTO (San Marcos, TX) (part of 2011-2012)
Kindergarten parent representative to Parent Teacher Organization, Hernandez Elementary (San Marcos, TX)
Secretary, Parents Assn., Texas State University Child Development Center (San Marcos, TX)
Board of Directors, Friends of Retired Greyhounds (non-profit organization that rescued retired racing greyhounds) 2004-2008

D. Professional:
Member of the Texas Health Education Service (TxHES) Steering Committee (2024-current)
Invited to be the first ever undergraduate advisor and a non-voting member of the Academic Affairs Committee – Joint Admission Medical Program Council (2025 – current)
Local Planning Committee Chair – Southeast Association of Advisors for the Health Professions for 2026 Conference to be held in San Antonio, TX (current – 2026)
Immediate Past Chair (executive committee), Texas Association of Advisors for the Health Professions (2025-current)
Conference Planning Committee for the 2026 National Association of Advisors for the Health Professions Conference to be held in New Orleans, LA in June 2026
Organizer for 2025 Texas Association of Advisors for the Health Professions Conference, Fort Worth, TX February 2025
Chair – Texas Association of Advisors for the Health Professions (2024-2025)
American Association of Medical Colleges committee to review PRE-View exam outreach (2023-current)
Committee to solicit and select proposals for JAMP MCAT test prep (2023)
JAMP Faculty Director representative to the JAMP Council (2023-2026)
Chair-Elect Texas Association of Advisors for the Health Professions (2023-2024)
Planning team for (in-person) 2023 Southeast Association of Advisors for the Health Professions Conference in Tampa, FL

Planning team for (in-person) 2022 Texas Association of Advisors for the Health Professions Conference in San Antonio, Tx
Planning team for (virtual) 2021 Texas Association of Advisors for the Health Professions Forum
Planning team for (in-person) 2021 Southeast Association of Advisors for the Health Professions Conference in San Antonio, TX
Chair, Membership Committee – National Association of Advisors for the Health Professions (2016 - present)
Immediate Past Chair (executive committee) – Texas Association of Advisors for the Health Professions (2020-2022)
Organizer – 2019-2020 Texas Association of Advisors for Health Professions Conference in Galveston, TX
Chair – Texas Association of Advisors for the Health Professions (2019-2020)
Chair-Elect – Texas Association of Advisors for the Health Professions (2018-2019)
Organizer – Health Professions Fair and Meet the Deans event at Southeast Association of Advisors for the Health Professions Conference, May 2017, Charleston, SC (2017)
Planning Committee- National Association of Advisors for the Health Professions 2018 National Conference in Washington, DC (Chair of RFP sub-committee) (2016-2018)
Planning Committee – inaugural Texas Med-Dent Conference to be held in San Marcos, TX in October 2017 (2015-2017)
Organizer – Health Professions Fair and Meet the Deans event at Southeast Association of Advisors for the Health Professions Conference, May 2015, New Orleans, LA (2015)
Member-at-Large and Executive Board Member, Texas Association of Advisors for the Health Professions (2014-2016)
Executive Board Member, Southeast Association of Advisors for the Health Professions (2014-2017)
Member of the Undergraduate University Advisory Panel for the Texas Medical and Dental School Application Service (2012- 2015)
Co-Chair, Membership Committee – National Association of Advisors for the Health Professions (2016-2022)
Member of the Membership Committee – National Association of Advisors for the Health Professions (2012-2016)
Reviewer for: Physiological and Biochemical Zoology, Oecologia, Journal of Mammalogy, Naturwissenscharften
Member of Diversity Committee, Society for Integrative and Comparative Biology
Student talk/poster judge – multiple years for both Division of Ecology and Evolution and Division of Comparative Physiology and Biochemistry, Society for Integrative and Comparative Biology

E. Organizations

1. Honorary:

n/a

2. Professional:
Society for Integrative and Comparative Biology (SICB) – until 2010
Division of Comparative Physiology and Biochemistry
Division of Ecology and Evolution

National Science Teachers Association (NSTA) – until 2008
Association for Women in Science (AWIS) - until 2008
Human Anatomy and Physiology Society (HAPS) until 2012
National Association of Advisors for the Health Professions (NAAHP) - current
Southeast Association of Advisors for the Health Professions (SAAHP) - current
Texas Association of Advisors for the Health Professions (TAAHP) – current

F. Service Honors and Awards:

n/a