TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Raelynn Deaton Haynes Title: Lecturer

B. Educational Background

BA	*1995*	*Berea College*	*Biology*	*Thesis/Dissertation*
MS	*2001*	*Univ. New Orleans*	*Biology*	*Habitat Selection*
Degree PhD	*2006*	*University of Oklahoma*	*Zoology*	*and Predator Prey Interactions in the Naked Goby Sexual Selection in Livebearing Fishes*

C. University Experience
2006-2007 Lecturer Univ. of Oklahoma
2006-2007 Adjunct Professor Sam Houston State University
2007-2008 Visiting Professor Sam Houston State University
2009-2011 Assistant Professor Sam Houston State University
2011-2018 Assistant Professor St. Edward's University
2019-2020 Adjunct Professor Texas State University
2021-2024 Lecturer Texas State University
2024 – Present Assistant Professor of Instruction, Texas State University

D. Relevant Professional Experience
N/A

E. Other Professional Credentials (licensure, certification, etc.)
500 EYTT – Yoga Teacher
Certified Pilates Instructor
Certified Barre Instructor
Director – Willow Gardens Yoga Teacher Training School
Instructor – Anatomy for Yoga Teacher Trainings

II. TEACHING

A. Teaching Honors and Awards:
Outstanding Graduate Student Teaching Award, University of New Orleans 2000
Outstanding Graduate Teaching Award, University of Oklahoma 2005

B. Courses Taught:
Zoology, General Biology, Human Anatomy, Vertebrate Biology, Vertebrate Anatomy, Conservation Biology, Evolution, Ecology, Life History Evolution (Graduate), Evolution of Human Mating Behavior (Undergrad and Graduate), Conservation Genetics (Graduate), Embryology, Animal Behavior, Scientific Writing (Graduate), Graduate Seminars (Multiple

Topics), Honor's Biology, Nutrition, Molecular Ecology, Hormones and Behavior, Honor's Ecology, Human Biology, Field Marine Biology
*Courses taught at Tx State: Human Anatomy for majors, Vertebrate Anatomy, Evolution, and Modern Biology

Led Study Abroad Programs / Student Research Projects / Students Experiential Learning
2009 Natural History of Belize (Sam Houston State University, 20 Students)
2010 Fish Behavior Research, Honduras (Sam Houston State University, 2 students, grant-funded
2010 Study Abroad and Research, Aquatic Field Ecology, Mexico (Sam Houston State University, 20 students)
2013 Study Abroad Panama, Evolution and Ecology (St. Edward's University, 11 students)
2015 Study Abroad Panama, Evolution and Ecology (St. Edward's University, 9 students)
2016 Research and Investigation for Study Abroad, Thailand (St. Edward's University)
2017 Study Abroad, Thailand, Marine Biology and Conservation (St. Edward's University, 11 students)
2017 Marine Biology and Ecology, South Padre Island, Experiential Classroom (St. Edward's University, 15 students)

C. Directed Student Learning (i.e. theses, dissertations, exit committees, etc.):
Served as Major Advisor for 8 Completed MS Thesis Students at Sam Houston State, Dept. Biology
Served on 5 MS Thesis Committees at Sam Houston State, Dept. Biology
Served as Advisor for 4 MS Students at St. Edward's University, Environmental Science and Policy
Served as undergraduate advisor for > 100 research students at Sam Houston State and St. Edwards University between 2006-2018 (Biology, Environmental Science, and Psychology and Behavioral Neuroscience)
Mentored two Tx State Undergraduates in Research – 2023

D. Courses Prepared and Curriculum Development: Multiple original courses, including Conservation Biology, Evolution of Mating Systems, Field Marine Biology (including in Thailand), Field Ecology (multiple countries) Hormones and Behavior, USDA students research course, Animal Behavior CURE Lab, Honor's Ecology, Honor's Nutrition, Conservation Genetics, Molecular Ecology, plus curriculum development for CURE labs and General Biology courses at St. Edward's Univ.

E. Teaching Grants and Contracts –

1. Funded External Teaching Grants and Contracts:

2. Submitted, but not Funded, External Teaching Grants and Contracts:
Scholarship from METLIFE Service Learning Trip to Lima, Peru

3. Funded Internal Teaching Grants and Contracts
Center for International Studies, Wilson Research Travel Grant $500 (to Univ. of Belize, for Belize Study Abroad Development)

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

F. Other:

G. Teaching Professional Development Activities Attended – None at Tx State
Attended and presented at 100+ conferences for Teaching Professional Development

III. SCHOLARLY/CREATIVE

A. Works in Print (**including works accepted**, forthcoming, in press): NA

1. Books:

a. Scholarly Monographs:

b. Textbooks:

c. Edited Books:

d. Chapters in Books:

J. Cureton* and **R. Deaton**. 2012. Hot moments and hot spots: identifying factors explaining temporal and spatial variation in turtle road mortality. ***J Wildlife Management*** 76(5):1047-1052.

e. Creative Books:

2. Articles:

Accepted – Unlocking Pandora's Box: De Novo Genes as the Key – National Center for Case Study Teaching in Science

a. Refereed Journal Articles:

J. Sanchez, B. Boutwell, S. Hamontree, G. Garrett, R. Lewis, A. Ragan, M. Tobler, and **R. Deaton Haynes**. 2014. Reproductive characteristics of two *Gambusia* congeners in west Texas. ***Southwestern Naturalist*** 59(3): 1-4.

J. Cureton*, M. Janis, W. Lutterschmidt, C. Randle, D. Ruthven, and **R. Deaton**. 2014. Impacts of roads on genetic diversity, gene flow, and population structure in the ornate box turtle (*Terrapene ornata*) ***Amphibia-Reptilia*** 35(2014): 87-97.

J. Sanchez+, S. Stoops+, N. Allan, J. Cureton+, G. Garrett, C.Kroll+, R. Lewis+, E. Marsh-Matthews, J. West*, and **Raelynn Deaton**. 2013. Current distribution of the introduced largespring gambusia, *Gambusia geiseri*. ***Southwestern Naturalist.*** 58(4):497-502. 2013.

J. Cureton* and **R. Deaton**. 2013. From forests to grasslands: life-history, hybridization, and genetic diversity of box turtles (Invited book chapter - ***Reptiles in Research: Investigations of Ecology, Physiology, and Behavior from Desert to Sea***. Editor W. Lutterschmidt.

R. Lewis*, N. Allan, G. Garrett, C. Kroll*, S. Stoops*, J. West*, and **R. Deaton**. 2013. Status of endangered Pecos gambusia (*Gambusia nobilis*) and Comanche Springs pupfish (*Cyprinodon elegans*) in Phantom Lake Spring, Texas. ***Southwestern Naturalist***. 58(2): 234–238.

B. Boutwell, J.C. Barns, **R. Deaton** and K. Beaver. 2013. On the evolutionary origins of life-course persistent offending: A theoretical scaffold for Moffitt's developmental taxonomy. ***J Theoretical Biology.*** 322:72-80.

S. Stoops*, P. Fleming, G. Garrett, and **R. Deaton**. 2013. Gonopodial structures revisited: variation in genital morphology within and across four populations of the western mosquitofish, *Gambusia affinis*. ***Southwestern Naturalist*** 58(1): 97–101.

J. Cureton+, R. Martin+, R. Lewis+, S. Stoops+, and **R. Deaton**. 2011. Effects of trematode infection on mating behaviors in a livebearing fish. ***Behaviour*** 148:967-84.

R. Deaton and J. Cureton+. 2011. Female masculinization and reproductive life history in a population of the western mosquitofish in the Brazos River, TX ***Environmental Biology of Fishes*** 92:551-558.

J. Cureton+, A. Buchman+, **R. Deaton**, and W. Lutterschmidt. 2011. Molecular analysis of potential hybridization between Eastern (*Terrapene carolina triunguis*) and Western (*Terrapene ornata ornata*) box turtles. ***Copeia*** 2011(2): 270-277.

R. Deaton. 2011. Parasitic nematodes decrease fecundity in the western mosquitofish, *Gambusia affinis.* ***The Southwestern Naturalist*** 56(2):264–266.

E. Marsh-Matthews, **R. Deaton**, and M. Brooks. 2010. Survey of matrotrophy in lecithotrophic species. **In *Viviparous Fishes II, the Proceedings of the III International Symposium on Viviparous Fishes*** (Ed. Mari Carmen Uribe and Harry Grier).

J. Cureton*, J. Randall*, and **R. Deaton**. 2010. Density increases male homosexual behavior in the Western Mosquitofish, *Gambusia affinis*. ***The Southwestern Naturalist*** 55: 263–268.

J.Cureton*, R. E. Martin*, and **R. Deaton**. 2010. Short terms changes in sex ratio and density alter coercive male mating tactics. ***Behaviour*** 147:1431-1442.

R. Deaton. 2009. Effects of parasites on male mate choice in the western mosquitofish, *G. affinis* ***Behavioral Processes*** 80: 1-6.

b. Non-refereed Articles:

3. Conference Proceedings:

a. Refereed Conference Proceedings:
100+ conference presentations

b. Non-refereed:

10. Other Works in Print: Case Study

Breakfast of Champions: The Importance of Fruit in the Cognitive Evolution of Great Apes, Amber Raven, Jessica Williamson, and Raelynn Deaton Haynes (corresponding author), National Center for Case Study Teaching in Science

B. Works Not in Print:

1. Papers Presented at Professional Meetings: **100+**

2. Invited Talks, Lectures, and Presentations:

R. Deaton Haynes and Roberta Engel**.** February, 2015. *On the Importance of Field Work*. Faculty, Natural Sciences, St. Edward's University.

R. Deaton Haynes. April, 2015. *Biodiversity of Texas Seagrass Habitats: Who Gives a Fish?* St. Edward's University Faculty Research Talk,

R. Deaton Haynes. October, 2014. *Food for Thought: Teaching Marine Conservation through the Eyes of Biodiversity and the Mouths of Students*. St. Edwards University Teaching Innovation Showcase, Lightning Talk.

R. Deaton. October, 2011. *Love and War in Livebearing Fish: The gonopodium, sexual conflict, and female fitness*. Universidad National Autonoma de Mexico. Tlaxcala, Mexico,.

R. Deaton. October, 2011. Roundtable Discussion: *Bridging the Gap Between Mechanism and Function*. Universidad National Autonoma de Mexico, Tlaxcala, Mexico.

3. Consultancies:

4. Workshops:

R. Deaton Haynes, Workshop Facilitator (3-hr workshop), National Association of Biology Teachers, Novel Ways of Engaging Sophisticated Upper-Level Biology Majors through Meditation and Mindfulness, Oct. 2025, St. Louis, MO

R. Deaton Haynes, Workshop Facilitator (3-hr workshop), National Association of Biology Teachers, A Novel Case Study Approach to Teaching Evolution, Nov. 2024, Anaheim, CA.

St. Edward's University, held two workshops on 1) curriculum development for CURE labs, and 2) General Biology Curriculum Development for IUSE Grant 3) Using Case Studies for Teaching Science 4) Grant Writing for Students, Southwestern Association of Naturalists

5. Other Works not in Print:

a. Works "submitted" or "under review":
Accepted – Unlocking Pandora's Box: De Novo Genes as the Key – National Center for Case Study Teaching in Science

b. Works "in progress":
    a. Several case studies from Fall 2024 Evolution class, in preparation for submission for publication

c. Other Works Not in Print:

C. Scholarly / Creative Grants and Contracts:

1. Funded External Grants and Contracts:

Fidelma O'Leary, Charles Hauser, **Raelynn Deaton Haynes** and William Quinn. USDA Hispanic-Serving Institutions Education Grant. 2015. Agricultural-STEM Pipeline: Progressive Experiential Learning Linking Three HSI Academic Tiers (Ag-STEM). $275,000.

Raelynn Deaton Haynes. Teaching and Learning through Technology Grant. St. Edward's University. Grabbing Panama by the Isthmus: Using Technology to Enhance the Study Abroad Experience for Evolution Students. $5,000.

Raelynn Deaton Haynes. Presidential Excellence Research Grant. 2015. Fighting with swords: genital combat as an alternative mechanism to same sex mating in a coercive livebearer. St. Edward's University. $5,000.

Raelynn Deaton. Presidential Excellence Research Grant. 2013. Effects of density and size ratio of competitors on male reproductive success in livebearing fishes. St. Edward's University. $5,000.

Raelynn Deaton. Presidential Excellence Research Grant. 2012. Female fitness as a function of stored sperm in the western mosquitofish. St. Edward's University. $5,000.

Raelynn Deaton, James Cureton II and Jeff Kelly. 2010. Conservation Ecology of Eastern (*Terrapene carolina*) and Western Box Turtles (*Terrapene ornata*) in a Texas urban population (Cooke and Grayson Counties, Texas). Arthur Seegilson Conservation Fund, Dallas Fort-Worth Zoo, $5,000.

Raelynn Deaton, William Lutterschmidt, Chris Randle, Donald Ruthven, and Michael Janis. Conservation genetics of the declining ornate box turtle. Arthur Seegilson Conservation Fund, Dallas Fort-Worth Zoo, $5,000

Chad Hargrave, **Raelynn Deaton** and Gary Garrett. 2010. Population dynamic and food web structure of two endangered fish species in west Texas. Texas Parks and Wildlife Department, $16,000 (contract

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

3. Funded Internal Grants and Contracts:

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

D. Scholarly / Creative Fellowships, Awards, Honors:
Faculty Research Award, 2013, St. Edward's University

E. Scholarly / Creative Professional Development Activities Attended:
10+

F. Media Recognition: Featured at St. Edward's website, and "27 Questions" publicity video https://www.youtube.com/watch?v=iLLxdU7VEnY

IV. SERVICE

A. Institutional

1. University: St. Edward's - IACUC, IRB, University Restructuring Committee, University Outstanding Teaching Awards Committee, Dean Search Committee, FPEC
2. College: Director, Science LLC Program, Mentor Science LLC, Mentor Science TG, Collaborator Science IUSE Grant
3. Department/School: >20 committees

B. Professional: Texas Academy of Sciences, Development Chair; Texas Academy of Science, Students Awards Committee; SWAN Student Awards Committee Chair; SWAN Secretary; Texas Academy of Sciences Academic Advisor, ASIH Student Grant Committee

C. Community: 10+

D. Organization Memberships: American Society of Ichthyology and Herpetology, Animal Behavior Society, Southwestern Association of Naturalists, Sigma Xi, Texas Academy of Science

E. Service Honors and Awards:

F. Service Grants and Contracts:

1. Funded External Service Grants and Contracts:

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

3. Funded Internal Service Grants and Contracts:

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

G. Service Professional Development Activities Attended: 20+