

H. BOBBY FOKIDIS *Associate Professor*

Department of Biology, Rollins College,
1000 Holt Ave, Winter Park, FL, USA 32789
Tel: (407) 646-2452
Email: hfokidis@rollins.edu
Website: <http://www.fokidislabs.weebly.com>



EDUCATION

- 2013 University of British Columbia (UBC), Post-Doctoral Research, Dr. Kiran Soma
2010 Arizona State University (ASU), Ph.D. Biology, Dr. Pierre Deviche
2004 Arkansas State University (ASTATE), MS. Biology, Dr. Thomas Risch
2001 University of Toronto (UT), BS. Honors, Environmental Science, Dr. James Rising

TEACHING

Courses taught at Rollins College

- S2021 Topics: Physiology for Conservationists (BIO 395)
M2024 Expedition Biology: Dominican Republic (BIO 250F)
S2018-F2018 How to connect the dots: Science vs. Pseudoscience (rFLA200S)
S2017-M2023 Biology of Mythical Beasts and Conspiracy g (rFLA200S)
F2015 Rollins Community Course (RCC100)
S2016 -S2023 Medical Terminology (BIO102)
S2014-S2023 General Biology I (BIO120)
I2016-I2023 Animal Conservation (BIO124)
M2015 Sex on the Brain (BIO123)
F2015 Careers in Biology (BIO201)
F2014, F2022 Vertebrate Zoology (BIO237)
S2014-S2016 Human Physiology (BIO246)
F2013-F2022 Animal Physiology (BIO312)
F2013-S2022 Biology Journal Club (BIO344)

Courses taught at other Institutions

- 2013 Behavioral Neuroendocrinology, Instructor, UBC
2012 Biological and Cognitive Psychology, Instructor, UBC

2009 Animal Physiology Lab, Teaching Assistant, ASU
 2006-2008 Anatomy and Physiology, Guest Lecturer, ASU
 2005-2008 Anatomy and Physiology Lab, Teaching Assistant, ASU
 2007 Introductory Biology for Non-Majors, Teaching Assistant, ASU
 2005-2009 Conservation Field Techniques, Guest Instructor, ASU
 2004 Principles of Zoology Lecture, Instructor, ASTATE
 2003 Mammalogy Lab, Teaching Assistant, ASTATE
 2003 Animal Ecology Lab, Teaching Assistant, ASTATE
 2002-2004 Principles of Zoology Lab, Teaching Assistant, ASTATE
 2002 Ornithology Lab, Teaching Assistant, ASTATE
 2002 Introduction to Biology Lab, Teaching Assistant, ASTATE

Teaching Awards

2013 Nominated for Professing Excellence Award, Office of Residential Life
 2008 Outstanding Teaching Assistant, ASU

SCHOLARSHIP

Student Research at Rollins College (21 students total)

H = Honors Thesis, HMF = Honors in Major Field, SFCS = Student Faculty Collaborative Scholarship,
 V = Volunteer in Lab, IS = Independent Study Credit, EF = Externally-funded

2024 Lucelia Leen (H) : *Stress in aquatic amphibians*
 Nicole Beckett (H) : *Leech and blood parasite interactions*
 Joseph Cuchiara (V, IS) : *Stress and Disease in captive indigo snakes*
 2023 Nicole Martinez-Rodriguez (IS, EF) : *NSF project. Exosomes in reptiles*
 2022 Cody Iserman (IS) : *Parasites and microbiology of turtles*
 Michael Nichter (V, IS) : *Ultrasound methods in turtles*
 2021 Yoke Tassent (H) : *Regulation of adrenal steroids in turtles*
 Anna Kaza (H) : *Exosomes and stress in brown anoles*
 2020 Katie Caldwell (H) : *Acute and chronic stress in freshwater turtles*
 2019 Zephyr Lenninger (V) : *Neural basis of food related aggression in song sparrows*
 2018 Taylor Brock (EF) : *NSF project. Hurricane impacts urban and rural brown anoles.*

- 2017 Ada Spahija (HIMF) : *Stress and local steroid synthesis in brown anoles.*
 Leah Elkhoury (SCFS, IS) : *Role of food insecurity in shaping aggressive behavior.*
 Micaela Castro (SFCS, IS) : *Role of Neuropeptide Y in regulating food intake and stress.*
- 2015 Rachael Munoz (SFCS, HMF) : *Fasting and local steroidogenesis in the brown anoles*
 Bonnie Pierson (H) : *Neurocognitive functioning in pediatric Graves' disease.*
- 2014 Caroline Gray (SFCS) : *Physiology of sexual objectification* (co-advised Dr. Dunn)
 Benjamin Radin (V, IS): *Seasonal variation in neuropeptide Y and orexin in songbirds*
 Sarah Wright (H): *Energetic costs of aggression in the northern cardinal.*
 Alexandria Mickler (SFCS): *Systemic and local control of steroid synthesis.*
 Zoe Mack (SFCS, H): *Embedded cortisol signature in the nail of the dog.*

Researcher Metrics and IDs

Number of peer-reviewed publications = 40 Total citations = 1665
 Research Interest Score = 746.1; h-index = 21; i10-index = 33
 Orchid ID = 0000-0003-2386-4066 Researcher ID = 1-8366-2015 Scopus ID = 55903729400

Published Journal Articles (underline denotes Rollins student)

HB Fokidis, T Brock, C Newman, DW Macdonald & CD Buesching. Assessing chronic stress in wild mammals using claw-derived cortisol: a validation using European badgers (*Meles meles*). *Conservation Physiology* 11: 1-17.

HB Fokidis, Z Lenninger, JG Samayoa, & KK Soma. Seasonal plasticity in steroid-mediated aggression over food and neuropeptide Y in song sparrows (*Melospiza melodia*). *Frontiers in Endocrinology* (in revision)

Fokidis HB. 2023. Path analysis reveals that corticosterone mediates gluconeogenesis from fat-derived substrates during acute stress in songbirds. *BioRxiv* (Preprint)

Harten L, N Goncer, M Handel, HB Fokidis & Y Yovel. 2021. Urban bat pups take after their mothers and are bolder and faster learners than rural pups. *BMC Biology* 19: 190

- Quintana L, C Jalabert, HB Fokidis, KK Soma, & L Zubizarreta. 2021. Mini Review. Neuroendocrine mechanisms underlying non-breeding aggression: common strategies between birds and fish. *Frontiers in Neural Circuits*. 15: 716605
- Himmelstein R, A Spahija & HB Fokidis. 2021. Evidence for fasting induced extra-adrenal steroidogenesis in the male brown anole, *Anolis sagrei*. *Comparative Biochemistry and Physiology Part B: Biochemistry and Molecular Biology* 253: 110544
- Fokidis HB & T Brock. 2020. Hurricane Irma induces divergent behavioral and hormonal impacts on an urban and forest population of invasive *Anolis* lizards. Evidence for an urban resilience hypothesis. *Journal of Urban Ecology* 1-15
- Brashears JA, HB Fokidis, & DF DeNardo. 2020. Fear-based aggression and Its relationship to corticosterone responsiveness in three species of python. *General and Comparative Endocrinology* 289: 113374.
- Fokidis HB, C Ma, B Radin, N Prior, H Adomat, E Guns, K Soma. 2019. Neuropeptide Y and orexin immunoreactivity in the sparrow brain coincide with seasonal changes in energy balance and steroids. *Journal of Comparative Neurology* 527:347-361.
- Mack Z, & HB Fokidis. 2017. A novel method for assessing chronic cortisol concentrations in dogs using the nail as a source. *Domestic Animal Endocrinology* 59: 53-57.
- Fokidis HB. 2016. Sources of variation in plasma corticosterone and dehydroepiandrosterone in the male Northern cardinal (*Cardinalis cardinalis*): I. Seasonal patterns and effects of stress and adrenocorticotrophic hormone. *General and Comparative Endocrinology* 235: 192-200.
- Wright SA, & HB Fokidis. 2016. Sources of variation in plasma corticosterone and dehydroepiandrosterone in the male Northern cardinal (*Cardinalis cardinalis*): II. Effects of urbanization, food supplementation and social stress. *General and Comparative Endocrinology* 235: 201-209.
- Butler MW, TJ Lutz, HB Fokidis, and ZR Stahlschmidt. 2016. Eating increases oxidative damage in a reptile. *Journal of Experimental Biology* 219: 1969-1973.

- Prior NH, KN Yap, HH Adomat, MC Mainwaring, HB Fokidis, ES Guns, KL Buchanan, SC Griffith, & KK Soma. 2016. Sex steroid profiles and pair-maintenance behavior of captive wild-caught zebra finches (*Taeniopygia guttata*). *Journal of Comparative Physiology A* 202: 35-44.
- LA Neuman-Lee, HB Fokidis, AR Spence, M Van der Walt, GD Smith, S Durham, & SS French. 2015. Food restriction and chronic stress alter energy use and affect immunity in an infrequent feeder. *Functional Ecology* 29: 1453-1462.
- Fokidis HB, MY Chin, VW Ho, HH Adomat, KK Soma, L Fazli, KM Nip, M Cox, G Krystal, A Zoubeidi, & ES Tomlinson Guns. 2015. A low carbohydrate, high protein diet suppresses intratumoral androgen synthesis and slows castration-resistant prostate tumor growth in mice. *Journal of Steroid Biochemistry and Molecular Biology* 150: 35-45.
- Fokidis HB, HH Adomat, G Kharmate, E Hosseini-Beheshti, ES Guns, & KK Soma. 2015. Regulation of local steroidogenesis in the brain and prostate cancer: Lessons learned from interdisciplinary collaboration. *Frontiers in Neuroendocrinology* 36: 108-129.
- Fokidis HB, NH Prior, & KK Soma. 2013. Fasting increases aggression and differentially modulates local and systemic steroid levels in male zebra finches. *Endocrinology* 154: 4328-4339.
- Fokidis HB, MB de Roziere, R Sparr, C Rogowski, K Sweazea, & P Deviche. 2012. Unpredictable food availability induces metabolic and hormonal changes independent of food intake in a sedentary songbird. *Journal of Experimental Biology* 215: 2920-2930.
- Deviche P, PJ Sharp, A Dawson, J Sabo, HB Fokidis, S Davies, & L Hurley. 2012. Up to the challenge? Hormonal and behavioral responses of free-ranging male Cassin's Sparrows, *Peucaea cassinii*, to simulated territorial intrusion. *Hormones and Behavior* 61: 741-749.
- Fokidis HB, & P Deviche. 2012. Brain arginine vasotocin (AVT) immunoreactivity differs between urban and desert Curve-billed Thrashers, *Toxostoma curvirostre*: relationships with territoriality and stress physiology. *Brain, Behavior and Evolution* 79: 84-97.

- Fokidis HB, L Hurley, C Rogowski, K Sweazea, & P Deviche. 2011. Captivity and body condition correlates of plasma corticosterone and metabolites and of locomotor activity in a male passerine. *Physiological and Biochemical Zoology* 84: 595-606.
- Fokidis HB, & P Deviche. 2011. Plasma corticosterone of city and desert Curve-billed Thrashers, *Toxostoma curvirostre*, in response to stress-related peptide administration. *Comparative Biochemistry and Physiology Part A: Molecular and Integrative Physiology* 159: 32-38.
- Schrey AW, M Grispo, M Awad, MB Cook, ED McCoy, HR Mushinsky, T Albayrak, S Bensch, LK Butler, HB Fokidis, H Jensen, T Imboma, AM Reynolds, MM Rios, LM Romero, IRK Stewart, H Westerdahl, DF Westneat, P Zehndjiev, & LB Martin. 2011. Broad-scale latitudinal patterns of genetic diversity among native European and introduced house sparrow (*Passer domesticus*) populations. *Molecular Ecology* 20: 1133-1143.
- Fokidis HB, M Orchinik, & P Deviche. 2011. Context-specific territorial behavior in urban birds: No evidence for involvement of testosterone or corticosterone. *Hormones and Behavior* 59: 133-143.
- Fokidis HB. 2011. Homeowners associations: friend or foe to native desert avifauna? Conservation concerns and opportunities for research. *Journal of Arid Environments* 75: 394-396.
- Deviche P, L Hurley, HB Fokidis, B Lerbour, B Silverin, J Sabo, & PJ Sharp. 2010. Acute stress rapidly decreases plasma testosterone but not luteinizing hormone in a free-ranging male songbird: Potential site of action and mechanism. *General and Comparative Endocrinology* 169: 82-90.
- Toomey MB, MW Butler, MG Meadows, LA Taylor, HB Fokidis, & KJ McGraw. 2010. A novel method for quantifying the glossiness of animals. *Behavioral Ecology and Sociobiology* 64: 1047-1055.
- Deviche P, HB Fokidis, B Lerbour, & EC Greiner. 2009. Blood parasitemia in a high latitude flexible breeder, the White-Winged Crossbill, *Loxia leucoptera*: contribution of seasonal relapse vs. new inoculations. *Parasitology* 137: 261-273.
- Fokidis HB, M Orchinik, & P Deviche. 2009. Corticosterone and corticosterone binding globulin in birds: Relation to urbanization in a desert city. *General and Comparative Endocrinology* 160: 259-270.

- Rising JD, DA Jackson, & HB Fokidis. 2009. Geographic variation in plumage pattern and coloration of Savannah Sparrows (*Passerculus sandwichensis*). *Wilson Journal of Ornithology* 121: 253-264.
- Fokidis HB & TS Risch. 2008. Does gliding when pregnant select for larger females? *Journal of Zoology of London* 275: 237-244.
- Fokidis HB, & TS Risch. 2008. The burden of motherhood: gliding locomotion in mammals influences maternal reproductive investment. *Journal of Mammalogy* 89: 617-625.
- Fokidis HB, EC Greiner, & P Deviche. 2008. Interspecific variation in avian blood parasites and hematology associated with the urban-rural gradient of a desert city. *Journal of Avian Biology* 39: 300-310.
- French SS, HB Fokidis, & MC Moore. 2008. Variation in stress and innate immunity in the tree lizard (*Urosaurus ornatus*) across an urban-rural gradient. *Journal of Comparative Physiology B* 178: 997-1005.
- Fokidis HB, TS Risch, & TC Glenn. 2007. Reproductive and resource benefits to large female body size in a mammal exhibiting female-biased sexual size dimorphism. *Animal Behavior* 73: 479-488.
- Medlin Jr. RE, SC Brandebura, HB Fokidis, & TS Risch. 2006. Distribution of Arkansas's Bottomland Bats. *Journal of Arkansas Academy of Science* 60: 189-191.
- Fokidis HB, C Robertson, & TS Risch. 2006. Keeping tabs: are redundant marking systems needed for rodents? *Wildlife Society Bulletin* 34: 764-771.
- Fokidis HB, SC Brandebura, & TS Risch. 2005. Distributions of bats in bottomland hardwood forests of the Arkansas Delta Region. *Journal of Arkansas Academy of Science* 59: 51-56.
- Fokidis HB, & TS Risch. 2005. The use of nest boxes to sample arboreal vertebrates. *Southeastern Naturalist* 4: 447-458.
- Fokidis HB, NA Schable, C Hagen, TC Glenn, & TS Risch. 2003. Characterization of microsatellite DNA loci for the southern flying squirrel (*Glaucomys volans*). *Molecular Ecology Notes* 3: 616-618.

Book Chapters

Heimovics SA, HB Fokidis, & KK Soma. 2012. Chapter 11: Brain aromatase and territorial aggression across the seasons in male song sparrows; in *Brain Aromatase, Estrogens, and Behavior*. Editor: J Balthazart & GF Ball. Oxford University Press.

Deviche P, L Hurley, & HB Fokidis. 2010. Avian testicular structure, function, and regulation; in *Hormones and Reproduction of Vertebrates, Volume 4: Birds*. Editor: D Norris. Elsevier.

Popular Articles

Orlando Sentinel: Ian reminded us that Florida is a swamp. Commentary (7 Oct 2022)

Orlando Sentinel: Tiger King: Owning tigers is not conservation. Commentary (8 April 2020)

Professional Presentations Only last 10 years, * undergraduate coauthor

Nov 2023 Exosomes as novel biomarkers of hormonal stress: comparative studies reveal close time-dependent associations with corticosterone in reptiles and birds. International Society for Wildlife Endocrinology. Jim Corbett National Park, India. TALK

Nov 2023* Claw and hair steroids reveal demographic variation in cortisol in Alpine Marmots (*Marmota marmota*). International Society for Wildlife Endocrinology. Jim Corbett National Park, India. POSTER

July 2022 Challenges and strategies for assessing stress in turtle populations. International Union for Conservation of Nature, Gland, Switzerland. TALK

June 2022 Nail steroids as a non-invasive tool in conservation physiology. Université Claude Bernard Lyon 1, Lyon, France. Host: Dr. Aurelie Cohas. TALK

June 2022 What animals have taught me about being human. Station Alpine Joseph Fourier, Col du Lautaret, France. TALK

- Oct 2019* A novel and highly sensitive non-invasive method to measure steroid hormones in claws reveals sex- and age-specific seasonal variation in cortisol in European Badgers (*Meles meles*). International Society for Wildlife Endocrinology. Kruger National Park, South Africa. TALK
- Oct 2019 Nail steroids as a non-invasive tool in conservation physiology. University of Cape Town. Cape Town, South Africa. Host: Dr. Marianne de Villiers. TALK
- Jun 2019 Linking physiology methods with conservation goals. Addis Ababa University. Addis Ababa, Ethiopia. Host: Dr. Addisu Mekonnen Kassie. TALK
- Nov 2018 Stress and the city: Testing the physiological resilience of urban wildlife. Arkansas State University. Jonesboro, Arkansas. Host: Dr. Than Boves. TALK
- May 2018 Nail steroids as a non-invasive tool in conservation physiology. University of Oxford. Oxford, England. Host: Dr. Christina Buesching. TALK
- Jan 2018 Some order from chaos: systematic review and meta-analysis reveal an emerging framework for understanding steroid responses to energy challenges? Society for Integrative and Comparative Biology. San Francisco, California. TALK
- Jan 2018* The role of neuropeptide Y in the regulation of the stress response and food intake in the brown anole (*Anolis sagrei*). Society for Integrative and Comparative Biology. San Francisco, California. POSTER
- Jan 2018* Fighting for food: Does food insecurity influence agonistic behavior in the brown anole (*Anolis sagrei*)? Society for Integrative and Comparative Biology. San Francisco, California. POSTER
- Jan 2015 * Analysis of the embedded cortisol signature in the nail of the domestic dog (*Canis lupus familiaris*). Society for Integrative and Comparative Biology. West Palm Beach, Florida. POSTER
- Jan 2015 * Seasonal variation in orexigenic neuropeptides and aromatase within the social behavior network of a free-living songbird. Society for Integrative and Comparative Biology, West Palm Beach, Florida. POSTER

- Aug 2014 Food fight: searching for novel and conserved neuroendocrine mechanisms of aggression during bouts of food insecurity. 8th International Congress of Neuroendocrinology. Sydney, New South Wales, Australia. TALK
- Jan 2014 Aggressive responses to food insecurity: the search for novel steroid-peptide interactions. Society for Integrative and Comparative Biology. Austin, Texas. TALK
- Nov 2013 Endocrine responses to food insecurity: a role for locally produced steroids. Georgia Southern University. Statesboro, Georgia. Host: Dr. Zachary Stahlschmidt TALK
- Nov 2013 * Acute fasting increases aggression in a songbird: seasonal changes and possible neuroendocrine mechanisms. Society for Neuroscience. San Diego, California POSTER
- Dec 2012 Towards a physiological basis to food security. Wake Forest University. Winston-Salem, North Carolina. Host: Dr. Miriam Ashley-Ross TALK
- Nov 2012 Towards a physiological basis to food security. Rollins College. Winter Park, Florida. Host: Dr. Paul Stephenson TALK
- Aug 2012 Food restriction induces social instability and rapid changes in circulating steroids in male Zebra Finches (*Taeniopygia guttata*). 5th North American Ornithological Congress. Vancouver, British Columbia. TALK
- Mar 2012 Food security and the interplay of energy and the endocrine system. Sam Houston State University. Huntsville, Texas. Host: Dr. William Lutterschmidt TALK

Research Grants and Awards

- 2022 National Science Foundation: IOS EAGER grant: Elucidating the role of exosomes in the regulation of steroidogenesis. \$ 260,819
- 2021 Turtle Conservation Fund: Assessment of ecology, threats, and status of understudied Caribbean sliders (*Trachemys* spp.) using biochemical panels and environmental DNA. \$3200

Cornell Grant: Physiological tools for studying climate change impacts on alpine marmots in collaboration with the Alpine Marmot Project. \$5000

- 2019 Cornell Grant: Endocrinology of the Endangered Ethiopian Wolf using a novel biomarker in collaboration with the Ethiopian Wolf Conservation Program. \$5000
- 2018 Ashforth Grant: Hormone biomarkers in European Badgers in collaboration with the University of Oxford. \$5000
- 2017 National Science Foundation: IOS RAPID grant: Does adaptation to urbanization promote resilience during a natural disaster? A test of brown anole (*Anolis sagrei*) behavior and stress after Hurricane Irma. \$45,210
 Proposal Improvement and Research Incentive Fund \$3000
 Student Faculty-Collaborative Scholarship for Leah Elkhoury
 Student Faculty-Collaborative Scholarship for Micaela Castro
- 2015 Student Faculty-Collaborative Scholarship for Rachael Munoz
- 2014 Student Faculty-Collaborative Scholarship for Alexandria Mickler
 Student Faculty-Collaborative Scholarship for Zoe Mack
- 2013 President's International Initiative to Borneo, Malaysia: Rollins College \$3500
- 2011 NSERC Postdoctoral Fellowship: \$80,000 CDN
 Utah State Research Grant: Human Disturbance on Marine Iguanas: \$19,800
- 2010 Division of Graduate Studies Dissertation Fellowship, ASU: \$31,000
 Travel Award, 25th International Ornithological Congress, Brazil: \$500
- 2009 Central-Arizona Long-term Ecological Research (LTER) Fellowship: \$27,000
 Society for Integrative and Comparative Biology (SICB) Research Grant: \$2000
 Graduate and Professional Student Association Jumpstart Grant, ASU: \$750
 Travel Award, School of Life Sciences, ASU: \$300
 Travel Award, Graduate and Professional Student Association, ASU: \$650
- 2008 Central-Arizona Phoenix LTER, Best Poster Presentation (*runner-up*)
 Travel Award, School of Life Sciences, ASU: \$450
 Travel Award, Graduate and Professional Student Association, ASU: \$400
- 2007 Central-Arizona Phoenix LTER annual meeting: Best Poster Presentation
 Travel Award, School of Life Sciences, ASU: \$350
 Travel Award, Graduate and Professional Student Association, ASU: \$500

- 2006 Graduate and Professional Student Association Research Grant, ASU: \$1775
School of Life Sciences Graduate Scholar Fellowship, ASU: \$18,000
ASU Chapter of Sigma Xi, Research Grant: \$400
- 2005 Outstanding Graduate Student Award, ASTATE
Arizona State University Recruitment Airfare Travel Award: \$400
Southeastern Bat Diversity Network, Best Student Paper - *2nd author*: \$200
- 2003 Arkansas Chapter of the Wildlife Society, Best Graduate Paper: \$100
- 2002 Savannah River Ecology Laboratory, Research Fellowship: \$24,000
American Museum of Natural History, Theodore Roosevelt Memorial Fund: \$900
- 1999 NSERC Northern Scientific Training Program, U of T: \$2100 CDN

Media Coverage and Appearances

- 2022 The 32789: City commission to vote on Muscovy duck removal plan (9 Dec 2022)
- Tampa Bay Times: Much of Florida is a swamp and we should take advantage of that feature as we rebuild. (13 Oct 2022)
- Orlando Sentinel: Ian reminded us that Florida is a swamp. Commentary (7 Oct 2022)
- Spectrum News 13: Environmental Impacts of Hurricane Ian (6 Oct 2022)
- Spectrum News 13: Hurricane Ian fish kills in Astor, Florida (6 Oct 2022)
- 2021 EurekAlert, American Association for the Advancement of Science (AAAS): In a cross-adoption experiment researchers at Tel Aviv University found that adopted baby fruit bats behave like their adoptive mothers (16 Nov)
- The Jerusalem Post: Nature vs. nurture: Boldness in baby fruit bats an acquired trait, not hereditary (20 Nov 2021)
- Haaretz: How Do Fruit Bats Survive in the City? Sheer Chutzpah (15 Nov 2021)
- Earth.com: Fruit bat pups take after their adoptive mothers (20 Nov 2021)

The Washington Post: Your dirty bird feeder could be spreading disease (9 Feb 2021)

The Frederick News Post: Feeder-borne illness: Birds are falling ill due to bacteria-laden feeders (10 Feb 2021)

The Spokesman Review: Don't let your bird feeder spread disease - here's how to care for it (13 Feb 2021)

Seattle Times: Don't let your bird feeder spread disease. Here's how to care for it (16 Feb 2021)

Richmond Times - Dispatch: Take care of your feeder to keep birds free of disease (21 Feb 2021)

OLT News, Pehal News, Knowledgia, WhatNew2Day, Birdy Info: Your dirty bird feeder could spread disease (9 Feb 2021)

The 32789: Rollins zoology class discovers rare black coyote (14 Jan 2021)

2020 WDBO (and affiliates) Orlando News Talk Radio: Interview on Perspectives with Beth Parrell (13 Dec 2020)

Fox 35 Orlando: Rare black coyote spotted in Orange County (3 Dec 2020)

Fox 35 Orlando, Fox 51 Gainesville, WOFL-ORD, WTVT Tampa: Black coyote spotted roaming in Central Florida (3 Dec 2020)

Bungalower: Rollins College study uncovers rare black coyote living in Winter Park (3 Dec 2020)

Zippia. The Career Expert: Experts weigh in on current job market trends (30 Nov 2020)

Orlando Sentinel: Tiger King: Owning tigers is not conservation. Commentary (8 April 2020)

2019 Spectrum News 13: In-Depth: Decline in North American bird populations (11 Nov 2019)

- 2018 Anole Annals: Fighting for food: Does food insecurity influence agonistic behavior in the brown anole? (6 Jan 2018)
- Anole Annals: What is the relationship between neuropeptide Y, corticosterone and hunger in the Brown Anole? (7 Jan 2018)
- 2017 Winter Park Magazine: How does our garden grow? (2 Oct 2017)
- 2016 Discovery News: Snakes Show How Eating Harms Health (5 January 2016)
 Science Daily: Snakes show that eating can be bad for your health (5 January 2016)
 Nature World News: Snake Study Shows How Eating Ultimately Decreases Lifespan (6 January 2016)
- 2014 Outside JEB: Angry birds: A hormonal link between hunger and hostility
 Journal of Experimental Biology 217(2):160 (January 2014)
- 2011 Network News: CAP LTER studies effect of urbanization on native bird populations (16 November 2011)
- 2010 BBC Earth News: Female birds find males with glossy feathers more sexy (23 March 2010)

SERVICE

Committee Service to Rollins College

2023-Present	Chair of Faculty Research and Development Committee (FRDC)
2020-2023	Chair of Biology Department
2016-2017	Faculty Affairs Committee (FAC)
2015-2016	Finances and Services Committee (FSC), <i>Secretary</i>
2013-Present	Health Professions Advisory Committee
2015-2019	Institutional Animal Care and Use Committee
2013-2015	Neuroscience Minor Program Committee
2014-Present	Fulbright Scholar Interviewer
2013-Present	Alfond Scholar Interviewer
2014-2016	George Allen Award Committee
2015-2016	Rollins College Diversity Council
As needed	Faculty and Staff Search Committees
As needed	Honors Thesis Committees (x18)

Student Advising

- Currently have 16 undergraduate student advisees with 58 advisees in total
- Recognized for student advising in 2017, 2018 and 2020

Student Led Activities

2017-2020 Faculty sponsor for Rollins Sports Fishing Association
2016-2019 rFLA Life Raft Debate Participant (Science division representative)

Professional Development, Workshops and Certifications

- Mentored 3 students through the Leadership Ally Program
- Certified as a Safe Zone Ally
- Community Engagement Workshop
- Reflective Teaching Partnership in both 2014 and 2016

Previous Institutional Service

2008-2009 Graduate Seminar Series Organizer (ASU)
2006-2008 President of the ASU Chapter of Project Literacy (ASU)
2006-2007 Graduate Community Organizer (ASU)
2004-2005 President of Chapter of Wildlife Society (ASTATE)
2004 Host of the Southeastern Wildlife Conclave Quiz Bowl (ASTATE)
2003-2004 Graduate Student President (ASTATE)

Current Professional Membership

IUCN Freshwater Turtle and Tortoise Specialist Group
Society for Integrative and Comparative Biology (SICB)
International Society of Wildlife Endocrinology (ISWE)
Society for Behavioral Neuroscience (SBN)
Animal Behavior Society (ABS)

Editorial Board Member

Section Board Veterinary Sciences
General and Comparative Endocrinology
Review Editor Frontiers in Avian Physiology

Journal Reviewer Only last 5 years

Gen. Comp. Endocrinology	J. Mammalogy	J. Herpetology
Hormones and Behavior	Urban Ecosystems	Physiology and Behavior
Front. Neuroendocrinol.	Behavioral Ecology	J. Zoology
Animal Behavior	J. Neuroendocrinology	Wildlife Research
J. of Animal Ecology	J. of Experimental Biology	Animal Cognition
J. Wildlife Management	Veterinary Sciences	Front. Endocrinol.

Grant Reviewer

- 2022 Foundation for Polish Science (FPS). Zoology. External Reviewer.
- 2020 Israel Science Foundation (ISF). Comparative Physiology External Reviewer.
FPS. Physiology. External Reviewer.
- 2019 NSF Division of Integrative Organismal Systems (IOS): Animal Behavior Program (ABP) core program panel.
ISF. Comparative Physiology External Reviewer.
- 2017 NSF-IOS: Animal Behavior Program (ABP) core program panel.
- 2015 NSF-IOS: Integrative Ecological Physiology Program (IEP) panel.
- 2009 Central Arizona Phoenix Long-Term Ecological Research (LTER) graduate research grant competition
- 2008 ASU Sigma Xi chapter research grant competition
- 2007 ASU Professional Student Association research grant competition

Professional Activities

- 2023 Assessor for IUCN Red List Authority: Caribbean
- 2018 Nominated for position of Program-Officer in the Division of Comparative Endocrinology at SICB
- 2018 Chair for "Comparative Endocrinology" session at SICB Meeting
- 2018 Grants Competition Chair for "Aubrey Gorbman" and "Lynn Riddiford" awards at SICB Annual Meeting
- 2014 SICB Oral and Poster Presentation Competition Judge
- 2014 Chair for "Behavioral Neuroendocrinology" session at SICB Meeting
- 2009 SICB Oral and Poster Presentation Competition Judge
- 2008 SICB Oral and Poster Presentation Competition Judge
- 2008 Chair for "Stress" session at SICB Annual Meeting

Tutoring

- 2012 Vancouver Community College Learning Center, Vancouver, British Columbia

Community Engagement

- 2018 Seminole County Public School Science Fair Judge
- 2018 Econ River Wilderness Bio Blitz (Reptile Amphibian, and Fish Survey)
- 2017 Inaugural Mead Gardens Habitat Restoration Day
- 2015 SPARC Day volunteer
- 2015 SPARC Day at Zebra Coalition
- 2013 Dr. Nelson Ying Orange County Science Exposition Judge
- 2008 Arizona Science and Engineering Fair, Mesa, Arizona