

## JANA MICHELLE CAWTHORN

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### EDUCATION

1989	PHD	<i>DEPARTMENT OF BIOLOGICAL SCIENCES, BOWLING GREEN STATE UNIVERSITY, BOWLING GREEN, OH 43403 (Dr. Stephen H. Vessey, advisor)</i> The population ecology, and temporal and spatial activity patterns, of three species of shrews ( <i>Sorex cinereus</i> , <i>S. fumeus</i> , and <i>Blarina brevicauda</i> ) in southwestern Pennsylvania.
1984	MS	<i>DEPARTMENT OF BIOLOGICAL SCIENCES, OLD DOMINION UNIVERSITY, NORFOLK, VA 23529 (Dr. Robert K. Rose, advisor)</i> Life history of the eastern harvest mouse, <i>Reithrodontomys humulis</i> , in southeastern Virginia.
1981	BS	<i>DEPARTMENT OF BIOLOGICAL SCIENCES, OLD DOMINION UNIVERSITY, NORFOLK, VA 23529</i>

### PROFESSIONAL EXPERIENCE

2012-present	<i>ASSOCIATE PROFESSOR; GEORGIA SOUTHERN UNIVERSITY</i> Tenure-track. Responsible for teaching large lecture sections of <b>Environmental Biology, General Biology, Mammalogy, and Biological Basis of Animal Behavior</b> . Responsible for <b>mentoring graduate students</b> . Responsible for <b>supervising and mentoring undergraduate student research through Biology 4890</b> . Responsible for working with the local educational community and providing help when needed.
2008-2011	<i>ASSISTANT PROFESSOR/ACADEMIC ADVISOR; GEORGIA SOUTHERN UNIVERSITY</i> Tenure-track. In addition to my teaching and research responsibilities, <b>I advise freshman and sophomore biology majors in the COST Advisement Center</b> .
2006-present	<i>ASSISTANT PROFESSOR; GEORGIA SOUTHERN UNIVERSITY</i> Tenure-track. Responsible for teaching large lecture sections of <b>Environmental and General biology for non-majors, laboratories for Ecology and Evolution, and lecture and lab for Mammalogy, and graduate seminars</b> . Responsible for <b>mentoring graduate students</b> . Responsible for <b>supervising and mentoring undergraduate student research through Biology 4890</b> . Responsible for <b>advising biology majors who plan to become secondary science teachers</b> . Responsible for working with the local educational community and providing help when needed.
2004-2006	<i>PART-TIME HIGH SCHOOL SCIENCE TEACHER AT CHARTER CONSERVATORY FOR LIBERAL ARTS AND TECHNOLOGY (CCAT)</i> Responsible for teaching 2 high-school science classes each semester. Classes include <b>Human Biology, Zoology, Chemistry, Physical Science, Genetics and Environmental Science</b> .
2002-2005	<i>FACULTY COORDINATOR FOR FIRST YEAR EXPERIENCE</i> Responsible for recruiting instructors for first year experience, coordinating instructional meetings for staff, and assisting in selecting and training students who act as peer leaders in GSU

1210.

- 2000-present *INSTRUCTOR FOR FIRST YEAR EXPERIENCE*  
Responsible for teaching **GSU 1210, 1211, and 1220 (as of 2008, FYE 1220) and FYE 2090-Global Citizenship**, freshmen introductory classes. Responsible for acting as an unofficial advisor to freshmen students in the class. Responsible for supervising peer leaders in the class.
- 1996-2006 *ASSISTANT PROFESSOR; GEORGIA SOUTHERN UNIVERSITY*  
Non-tenure track. Responsible for teaching **introductory biology for non-majors, ecology & evolution for majors, environmental biology, and animal behavior**. Also responsible for supervision of graduate teaching assistants.
- 1996-2005 *INSTRUCTOR AND CO-PRINCIPAL INVESTIGATOR; GEORGIA SOUTHERN MUSEUM*  
Acted as instructor and co-principal investigator for an externally funded program designed to expand and evaluate the use of outdoor classrooms in secondary school education. Funding was provided by the Eisenhower Foundation and the Environmental Protection Agency. The co-PI is responsible for designing, implementing, and presenting the curriculum for the primary and secondary school teachers involved in the program.
- 1992-1995 *ASSISTANT PROFESSOR; BALL STATE UNIVERSITY.*  
Non-tenure track. Responsible for teaching Human Anatomy and Human Physiology (I and II) for health science and other science majors. Also responsible for supervision of graduate teaching assistants.
- 1990-1992 *POSTDOCTORAL RESEARCH ASSISTANT; INDIANA UNIVERSITY*  
Responsible for design and analysis of experiments on physiological and behavioral ecology in the lab of Dr. Ellen Ketterson. Supervised independent undergraduate researchers.
- 1989-1990 *VISITING RESEARCH ASSOCIATE; INDIANA UNIVERSITY*  
Responsible for research on the population ecology of small mammals in the lab of Dr. Polley McClure.

#### PROFESSIONAL AFFILIATIONS

Animal Behaviour Society  
American Institute of Biological Sciences  
American Society of Mammalogists  
Georgia Academy of Sciences  
National Association of Biology Teachers  
National Science Teachers Association  
Sigma Xi  
The Nature Conservancy

#### AWARDS AND HONORS

- 2013 Award of Teaching Excellence. A competitive award within the College of Science and Mathematics.
- 2012 NCEP (Network of Conservation Educators and Practitioners) Professor of the month, September 2012
- 2011 Winner of the NACADA Academic Advisor – Faculty for 2010.
- 2010 Selected as a Governor’s Teaching Fellow. Fellows participate in a year-long program conducted by the Institute of Higher Education at the University of Georgia.

- 2009 Named as a Mentor by Bethanie Whitfield, who was selected for membership in Omicron Delta Kappa
- 2009 Award of Teaching Excellence. A competitive, university wide award.
- 2008 Professor of the Year—an award given by Gamma Beta Phi; determined by student votes
- 2007 Outstanding First Year-Advocate
- 2007 Student Disability Resource Center Award as a faculty member who helps disabled students
- 2004 Gamma Beta Phi award for Outstanding Service as a Temporary Faculty Member at Georgia Southern University
- 1998 Nominee: Interfraternity Council and Panhellenic Association Teacher of the Year, Georgia Southern University
- 1988 Non-Service Fellowship Award, Bowling Green State University

GRANTS AND CONTRACTS
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- Cawthorn, J. M.**, C. R. Chandler, L. McBrayer, and J. Roberts. Sustainable biodiversity on the Georgia Southern campus. May 2016. \$32,572.00 funded.
- Whitlock, C., **J. M. Cawthorn**, J. Darley, D. Gatch, and F. Rich. STEM Enrichment Programs to Increase Sophomore STEM retention. NSF IUSE proposal. January 2016. Not funded.
- Cawthorn, J. M.**, C. R. Chandler, L. McBrayer, and J. Roberts. Using vertebrates to provide a framework for sustainable biodiversity on the Georgia Southern Campus. May 2015. \$30,207.89 funded.
- Cawthorn, J.M.**, M. Griffin, B. Koehler, J. Lobue, D. Gatch, and J. Darley. A Phase II Noyce Scholarship Proposal: SMART Scholars—highly qualified professional educators. March 2014. ~800,000. Not funded.
- Whitlock, C., **J. M. Cawthorn**, J. Darley, D. Gatch, F. Rich, and L. Vance. NSF STEP proposal. GSU STEP: Increasing Sophomore Retention by Enhancing Science Identity. December 2012. ~ 2 million. Not funded.
- Whitlock, C., **J.M. Cawthorn**, J. Darley, D. Gatch, K. Vance and L. Vance. NSF STEP proposal. GSU STEP: Improving Progression and Graduation of STEM Majors through Integrated Advising. Not funded. Submitted Sept. 2011. ~ \$2 million
- Whitlock, C., S. Bernandin, **J. M. Cawthorn**, J. Darley, D. Gatch, and K. Vance. NSF STEP proposal. “Faculty training and Student Experience (TrEx) to Prevent Sophomore Crumble”. Not funded. (2010) ~ \$ 2 million
- Lobue, J., **J. M. Cawthorn**, J. Darley, M. Griffin, and B. Koehler. NSF NOYCE scholarship grant. “Science and Mathematics Achievement via Research and Teaching Scholarship. The SMART Scholarship.” \$750,000 (2008)
- Schulte, B. A., **M. Cawthorn**, B. Congdon, S. George, L. McBrayer, J. Pascarella, D. Rostal, C. Self-Sullivan. NSF-URM Preliminary Proposal: Engaging and Mentoring Biologists through Extended Research. Not accepted for full proposal development. (2008)
- Cawthorn, J.M., R. Ashley and B. Tharp.** Department of Education, Mathematics and Science Education

Proposal. Assessing the efficacy of Project SENSE in Improving Teacher Quality. Not funded. (2007)  
\$650,000.

**Cawthorn, J. M.** Faculty Development Grant for improving science literacy. \$2600 (2007)

Altman, C., **J. M. Cawthorn**, and M. Zjhra. Outdoor classroom use and effectiveness. PRISM Grant \$52, 620 (2007)

Schulte, B. A., D. Boege-Tobin, E. Freeman, D. Rostal, L. McBrayer, **M. Cawthorn**. NSF-URM Preliminary Proposal: Behavior, Endocrinology, and Anatomy Undergraduate Scholarship (BE An Undergrad Scholar). Not accepted for full proposal development. (2007)

**Cawthorn, J.M.**, L. Leege and M. Zjhra. "Curriculum reform of the Introductory Biology Sequence in the Department of Biology." PRISM Grant. \$5000 (2005)

Tharp, B.W., R. Ashley, and **J.M. Cawthorn**. "Science and Math in the Outdoor Classroom: Longleaf Pine Explorations." "No Child Left Behind". Title II Part A Higher Education Improving Teacher Quality Higher Education Grant. \$36,366 (2004-2005).

Tharp, B.W., R. Ashley, and **J.M. Cawthorn**. "Science and Math in the Outdoor Classroom: Sandhill Explorations". "No Child Left Behind" Title II Part A Higher Education Improving Teacher Quality Grant. Approx. \$35,000 (2003-2004).

Tharp, B.W., Ashley, R., **Cawthorn, J.M.** and S. Barrs. "Science and Math in the Outdoor Classroom: "Wetland Emphasis". Eisenhower Foundation, \$22, 958. (2002-2003).

**Cawthorn, J.M.**, and S. Barrs. "Science and math in the outdoor classroom," Faculty Service Grant, Georgia Southern University, \$5000. (1999-2000)

**Cawthorn, J.M.**, and S. Barrs. "Science and math in the outdoor classroom," Eisenhower Foundation, \$28,750. (1999-2000)

**Cawthorn, J.M.** "Effects of testosterone on the behavior and physiology of Dark-eyed Juncos," New Faculty Research Grant, Ball State University, \$1500. (1993)

**Cawthorn, J.M.** "Population ecology of three species of sympatric species of shrews," Theodore Roosevelt Memorial Fund, American Museum of Natural History, \$900. (1988)

## PUBLICATIONS

Gibbs, J.P. 2018. Parrots and palms: analyzing data to determine best management strategies and sustainable harvest levels. Adapted by **M. Cawthorn**, A. Bravo, and A.L. Porzecanski. Lessons in Conservation 8:21–28. Available from <http://www.amnh.org/our-research/center-for-biodiversity-conservation/resources-and-publications/lessons-in-conservation/lessons-in-conservation-volume-viii> \*\*

Bravo, A., A. Porzecanski, E. Sterling, N. Bynum, **M. Cawthorn**, D. Fernandez, L. Freeman, S. Ketcham, T. Leslie, J. Mull, and D. Vogler. 2017. Teaching for higher levels of thinking: developing quantitative and analytical skills in environmental science courses. *Ecosphere*. \*\*

**Cawthorn, Michelle**, Lissa Leege and Beth Congdon. 2011. Improving learning outcomes in large environmental science classrooms through short-term service-learning projects. *Journal of Environmental Studies and Sciences*, 1(1):75-87.

- Cawthorn, Michelle.** Case Studies in Biology. A supplement to accompany Phelan, J. 2010. What is life? A guide to biology. Online publication; compensated.
- Maurer, Trent., Laura Frost, Diana Sturges, Simone Charles, Debbie Allen, **Michelle Cawthorn**, and Cherry Brewton. 2009. Faculty and student perceptions of post-exam attendance. *Journal of Scholarship of Teaching and Learning* 9(3): 38-55.
- Leege, Lissa and **J. Michelle. Cawthorn.** 2008. Environmental Service Learning reinforces classroom concepts and engenders environmental responsibility. *Journal of College Science Teaching* 37(6):32-36.
- Cawthorn, J. Michelle,** Dana Morris, Ellen D. Ketterson, and Val Nolan, Jr. 1998. Influence of experimentally elevated testosterone on nest defence in male dark-eyed juncos. *Animal Behaviour* 56(3):617–621.
- Chandler, C. Ray, **J. Michelle Cawthorn**, and Gina M. Turano. 1997. Breeding by Horned Larks on the lower coastal plain of Georgia. *Oriole* 62(1,2):1–3.
- Klukowski, Lori A., **J. Michelle Cawthorn**, Ellen D. Ketterson, and Val. Nolan, Jr. 1997. Effects of experimentally elevated testosterone on plasma corticosteroid binding globulin in Dark-eyed Juncos (*Junco hyemalis*). *General and Comparative Endocrinology* 108(1):141–151.
- Cushing, Bruce S., and **J. Michelle Cawthorn.** 1996. Species differences in activity patterns during oestrus. *Canadian Journal of Zoology* 74(3):473–479.
- Ketterson, Ellen D., Val Nolan, Jr., **J. Michelle Cawthorn**, Patricia G. Parker, and Charles Ziegenfus. 1996. Phenotypic engineering: using hormones to explore the mechanistic and functional bases of phenotypic variation in nature. *Ibis* 138:70–86.
- Cawthorn, J. Michelle.** 1994. A live-trapping investigation of the population biology of two syntopic species of *Sorex*. Pp. 39–43 in *Biology of the Soricidae* (J.F. Merritt, G.L. Kirkland Jr., and R.K. Rose, eds.). Carnegie Museum of Natural History, Special Publication No. 18.
- Chandler, C. Ray, Mark S. Woodrey, and **J. Michelle Cawthorn.** 1994. Breeding by the Black-and-White Warbler (*Mniotilta varia*) in southern Mississippi. *Mississippi Kite* 24(1):2–4.
- Ketterson, E.D., V. Nolan Jr., C. Ziegenfus, D.P. Cullen, **J.M. Cawthorn**, and L. Wolf. 1991. Non-breeding season attributes of male Dark-eyed Juncos that acquired breeding territories in their first year. Pp. 1229–1239 in *Acta XX Congressus Internationalis Ornithologici* (Bell B.D., ed.). Christchurch, New Zealand
- Cawthorn, J. Michelle** and Robert K. Rose. 1989. The population ecology of the eastern harvest mouse (*Reithrodontomys humulis*) in southeastern Virginia. *American Midland Naturalist* 122(1):1–10.

\*\*peer-reviewed since promotion

#### PUBLICATIONS IN REVIEW, IN PREP, IN REVISION

**Cawthorn, M.** et al. Case study results of three highly-qualified teacher candidates from a NOYCE funded educational program. *In prep.*

**Cawthorn, M.,** et al. Vertebrate biodiversity on a southeastern U.S. campus. *In prep.*

#### PRESENTATIONS

D.B. Gatch and **M. Cawthorn.** Graduate Learning Community: Designing Assignments, Quizzes, and Tests. October 2017. CT2 Georgia Southern University Campus.

E.E. Evans and **M. Cawthorn.** Intraspecific space use in *Peromyscus polionotus*. 97<sup>th</sup> Annual Meeting of the American Society of Mammalogists. University of Idaho. June 21- June 24, 2017.

- Megan T. Sanders and **J. Michelle Cawthorn**. The efficacy of mammal urine as a lure in camera trapping studies. 96<sup>th</sup> Annual Meeting of the American Society of Mammalogists. University of Minnesota. June 24-June 28, 2016.
- E. Evans and **M. Cawthorn**. Home ranges and burrow activity of *Peromyscus polionotus* in southeastern Georgia. 96<sup>th</sup> Annual Meeting of the American Society of Mammalogists. University of Minnesota. June 24-June 28, 2016.
- Leslie, T., Porzecanski, A., Bravo, A., Sterling, E., Bynum, N., **Cawthorn, M.**, Fernandez, D., Freeman, L., Ketcham, S., Mull, J., & Vogler, D. (2016, June). Teaching for higher levels of thinking: Developing quantitative and analytical skills in undergraduate science courses. Workshop presented at the 17th Annual Meeting of the Association of Program Administrators for CSTEP and STEP (APACS), Albany, NY.
- Cawthorn, M.**, J. Darley, M. Griffin, D. Gatch, B. Koehler, and J. Lobue. The SMART scholarship at Georgia Southern University. Southeast Regional Meeting of the Noyce Program, June 2-4 2016
- Vogler, D., E. Sterling, A. Porzecanski, A. Bravo, N. Bynum, **M. Cawthorn**, D. Fernandez del Viso, L. Freeman, S. Ketcham, T. Leslie and J. Mull. “*Developing quantitative and analytic skills in undergraduates using conservation examples*”. Poster presented at the North American Society for Conservation Biology meetings in Missoula, Montana, summer 2014.
- Vogler, D., E. Sterling, A. Porzecanski, A. Bravo, N. Bynum, **M. Cawthorn**, D. Fernandez del Viso, L. Freeman, S. Ketcham, T. Leslie, J. Mull, and T. Theodose. “*Student Interpretation of Conservation Data: Does their Reach exceed their Grasp*”? Poster presented at the Ecological Society Meetings, Minneapolis, MN, August 2013.
- Cawthorn, M.**, E. Sterling, A. Porzecanski, A. Bravo, N. Bynum, D. Fernandez, L. Freeman, S. Ketcham, T. Leslie, J. Mull, T. Theodose, D. Vogler. “*Student Interpretation of Conservation Data: Does their Reach exceed their Grasp?*” Presented to the International Colloquium on Conservation Biology, July 2013, Baltimore, MD.
- Burgess, T., **M. Cawthorn**, and T. Norton. *The role of androgen production on female social status in a semi free-ranging population of Lemur catta*. 36<sup>th</sup> Annual Meeting of the American Society of Primatologists, Puerto Rico. May, 2013.
- Sterling, E.J., A. L. Porzecanski, N. Bynum, A. Bravo, B. Abraham, R. Burks, **M. Cawthorn**, J. Cigliano, L. Davalos, D. Fernandez, L. Freeman, C. Griffiths, M. Groom, S. Ketcham, T. Langen, T. Leslie, J. Linder, J. Mull, D. Ruby, D. Stokes, T. Theodose, D. Vogler, and K. Hanson. “*Development and assessment of process skills in biology courses.*” Presented to NSF CCLI/TUES PI conference in Washington, D.C., 2013.
- Cawthorn, M.**, J. Darley, M. Griffin, B. Koehler, J. LoBue. *Lessons from Losses: Case studies of scholars who left the program*. Presented to 2013 AAAS/NSF Robert Noyce Teacher Scholarship Program Conference. May 2013.
- Sesay, F\*, S. Matike-Tita\*, S. Riera\*, M. Meagley\*, K. Edwards\*, K. Heying\*, C. Reinert\*, C. Lumpkin\* and **M. Cawthorn**. *The effect of distance and season on the giving up density (GUD) of oldfield mice, Peromyscus polionotus*. Association of Southeastern Biologists 2013, Charleston, WV. April 2013.
- Wade, S.\* and **M. Cawthorn**. *Do right-pawed dogs have right-handed owners and vice versa?* Association of Southeastern Biologists 2013, Charleston, WV. April 2013.
- Gatch, D.B., **M. Cawthorn**, and J. Darley. Effects on Teaching of an intensive new faculty workshop. SOTL Commons 6<sup>th</sup> Annual Conference, Savannah, GA . March 2013.
- Regassa, L., **M. Cawthorn**, W. Denton, and F. Stephens. Service Learning: Incorporating Relevance, Purpose, and Learning. SOTL Commons 6<sup>th</sup> Annual Conference, Savannah, GA. March 2013.

- Cawthorn, M.**, B. Koehler, J. LoBue, R. Mayes. “*What students need to know before taking college science courses.*” 2<sup>nd</sup> annual STEM conference, Georgia Southern University. March 2013.
- Gatch, D.B., **M. Cawthorn**, and J. Darley. “*Effects of an intensive new faculty workshop on teaching.*” 2<sup>nd</sup> Annual STEM conference, Georgia Southern University, March 2013.
- Porzecanski, A., A. Bravo, E. Sterling, N. Bynum, B. Abraham, R. Burks, **M. Cawthorn**, J. Cigliano, L. Davalos, D. Fernandez, L. Freeman, M. Groom, S. Ketcham, T. Langen, J. Linder, J. Mull, D. Ruby, T. Theodose, and D. Vogler. 2012. “*How much can students gain in data analysis and critical thinking skills in one semester?*” Presented to Ecological Society of America, August 2012, Portland, OR.
- Cawthorn, M.**, J. Darley, M. Griffin, B. Koehler, and J. LoBue. “*Shifts in pedagogy for Noyce Scholars as a result of assisting pre-service elementary and middle school teachers in mathematics performance assessments.*” Presented to 2012 AAAS/NSF Robert Noyce Teacher Scholarship Program Conference. May 2012. Washington, D.C.
- Cawthorn, M.**, J. Darley, M. Griffin, B. Koehler, and J. LoBue. “*Using a practicum experience for selecting SMART (Science and Mathematics Achievement via Research and Teaching) Scholars at Georgia Southern University.*” Presented to 2012 AAAS/NSF Robert Noyce Teacher Scholarship Program Conference. May 2012. Washington, D.C.
- Porzecanski, A. L., E. Sterling, N. Bynum, A. Bravo, R. Burks, A. Gomez, K. Landrigan, B. Abraham, G. Bowser, **M. Cawthorn**, J. Cigliano, L. Davalos, D. Fernandez, L. Freeman, S. Ketcham, T. Langen, J. Linder, J. Mull, M. Palmer, D. Roon, J. Singleton, T. Theodose, and D. Vogler. “*Cultivating skills for 21<sup>st</sup> century professionals: Development and assessment of process skills in ecology and conservation biology students.*” Presented to Ecological Society of America, August 2011, Austin, TX.
- Cawthorn, M.**, J. Darley, M. Griffin, B. Koehler, and J. LoBue. “*A Trio of Experiences: SMART Scholars at Georgia Southern University.*” Presented to 2011 AAAS/NSF Robert Noyce Teacher Scholarship Program Conference. July 2011. Washington, D.C.
- Williams, E. and **M. Cawthorn**. “*A comparison of nesting behavior in the eastern gray squirrel (Sciurus carolinensis) between developed and natural environments.*” Presented to Phi Kappa Phi, April 2011, Statesboro, GA.
- Cawthorn, M.**, J. Darley, M. Griffin, B. Koehler and J. LoBue. “*Pre-professional Block as a NOYCE Scholar Preparation and Selection tool.*” Presented to NOYCE Southeastern Regional Conference Agenda, March 2011, Greenville, SC.
- Cawthorn, M.**, J. Darley, M. Griffin, B. Koehler, and J. LoBue. “*Partner-Scholar-Intern-Ship: a SMART Idea!*” Presented to 2010 AAAS/NSF Robert Noyce Teacher Scholarship Program Conference. July 2010, Washington, D.C.
- Cawthorn, M.** “*Teaching...The Continuing Frontier.*” Academic Excellence Presentation for faculty and staff of Georgia Southern University. Invited. March 2010.
- Cawthorn, M.** “*Direct and indirect benefits of service-learning in large classrooms.*” Presented to the Southeast Branch of American Society of Microbiologists, November 2009, Savannah, GA. Invited.
- Cawthorn, M.**, A. Kritter\*, and A. Lianguert\*. “*Insect foraging of Owl Monkeys*”. Presented to the Animal Behaviour Society, June 2009, Pirenopolis, Brazil.
- Maurer, T., L. Frost, D. Sturges, S. Charles, D. Allen, **M. Cawthorn**, and C. Brewton. “*Faculty and Student*

*Perceptions of Post-Exam Attendance.*” Presented to the 2<sup>nd</sup> Annual SOTL Commons Conference, March 2009, Georgia Southern University.

**Cawthorn, M.**, P. Dallas, D. Fisher, B. Frigo, H. Graf, D. Hensley, L. Leege, M. Mason, and S. Sipe. “An introduction to service-learning: highlighting service-learning models on a college campus.” Presented to Teaching Family Science Association Conference, June 2008, Savannah, Georgia.

Leege, L.M. and **J. M. Cawthorn.** “Service learning in large classes: a good time investment for students and faculty?” presented to Gulf South Summit on Service Learning and Civic Engagement through Higher Education, March 2008, Nashville, Tennessee.

**Cawthorn, J.M.**, D. Morris\*, E.D. Ketterson, and V. Nolan Jr. "Effects of testosterone on nest defense by male Dark-eyed Juncos," presented to the American Ornithologists' Union, June 1994, Missoula, Montana.

**Cawthorn, J.M.** and B.S. Cushing. "A comparison of wheel-running activity during estrus in nocturnal and diel rodents," presented to the American Society of Mammalogists, June 1991, Manhattan, Kansas.

Ketterson, E.D., V. Nolan Jr., C. Ziegenfus, D.P. Cullen\*, **J.M. Cawthorn**, and L. Wolf. "Non-breeding season attributes of male Dark-eyed Juncos that acquired breeding territories in their first year," presented to the XX International Ornithological Congress, December 1990, Christchurch, New Zealand.

**Cawthorn, J.M.** "A live-trapping investigation of the population biology of two syntopic species of *Sorex*," presented to the International Colloquium on the Biology of the Soricidae, October 1990, Rector, Pennsylvania.

**Cawthorn, J.M.** "Movement patterns in free-ranging *Blarina brevicauda*," presented to the American Society of Mammalogists, June 1989, Fairbanks, Alaska.

**Cawthorn, J.M.** and J. Merritt. "Radiotelemetry in free-ranging northern short-tailed shrews (*Blarina brevicauda*)," presented to the American Society of Mammalogists, June 1988, Clemson, South Carolina.

**Cawthorn, J.M.** "Preliminary observations on the life history of two species of *Sorex*," presented to the Ohio Academy of Sciences, April 1986, Toledo, Ohio.

**Cawthorn, J.M.** and R.K. Rose. "Life history of *Reithrodontomys humulis* in southeastern Virginia," presented to the American Society of Mammalogists, June 1984, Arcata, California.

**Cawthorn, J.M.** and R.K. Rose. "Life history of the eastern harvest mouse in southeastern Virginia," presented to the Virginia Academy of Sciences, April 1984, Richmond, Virginia.

\*undergraduate students

#### PROJECTS IN PROGRESS

*Efficacy of Intensive Teaching Workshops for New Faculty.* Data are being analyzed. The purpose of this project is to evaluate the efficacy of a teaching workshop that new COSM faculty participated in during the summer of 2012-2017. We are looking for changes in the participants' knowledge about pedagogical tools due to the workshop, and for differences in teaching between participants and non-participants.

*Classroom Management*—Manuscript in preparation based on data collected at the end of a 5 year NOYCE funded project. The purpose is to determine if a concentrated focus on classroom management through readings, discussion, and observation will facilitate this critical aspect of teaching for NOYCE scholars, thus increasing the likelihood that they will remain in the teaching profession.

*Undergraduate Research*—projects are ongoing. Data are being collected and analyzed by undergraduates; the main topics are questions behavior and ecology of oldfield mice.



*Graduate Research*—I am currently supervising two graduate students, and have four who graduated. Lucia Burgess finished her thesis and graduated in Summer 2015. She analyzed androgenic hormones in female ring-tailed lemurs to look for a link between hormones and female dominance. Liz Elliot finished her thesis and graduated in Fall 2011. She compared nest-site selection of eastern gray squirrels in rural settings and urban parks. Tim Moore finished his thesis and graduated in Fall 2012. He collected data about foraging in ring-tailed lemurs. His specific question related to the impact of the dominant female on both quality and quantity of forage of her subordinates in the group. Kate King graduated in spring 2013 as a non-thesis MS student. Tiffany Burgess began in fall 2011, Val Plummer began in fall 2012, Emily Evans in spring 2014, and Katrina Banderet began in spring 2015 but left in summer 2015. Val Plummer is working on dispersal in feral cat colonies by examining both genetic data and GPS data. Emily Evans is evaluating burrow use in the monogamous oldfield mouse using radio-telemetry and live-trapping. Both Val and Emily are analyzing data and writing.

#### UNDERGRADUATE RESEARCHERS

<b>Brianna Wadley (2018)</b>	<b>Mark Meagley</b>
<b>Mitchell Castanet (2017)</b>	<b>Valerie Plummer</b>
<b>Alex Ashton (2017)</b>	<b>Brandy Hill</b>
<b>Hailey Phillips (2017)</b>	<b>Aniya Strong</b>
<b>Megan Sanders (2016)</b>	<b>Kelly Gauker</b>
<b>Mary Margaret Daniel (2015)</b>	<b>Christopher Guthrie</b>
<b>Megan Fischer (internship, 2015)</b>	<b>Rachel McNeely</b>
<b>Canecia Gordon (2015)</b>	<b>Dominique Quarles</b>
<b>Jessica Coleman (2015)</b>	<b>Larry Paul</b>
<b>Kathryn Klugein (2015)</b>	<b>Christine Morris</b>
<b>Shaminda Guthrie (2015)</b>	<b>Melanie Thomas</b>
<b>Chase Richins (2015)</b>	<b>Amy Vargas</b>
<b>Karen Avella (2014)</b>	<b>Allyson Woods</b>
<b>Madison DeFalco (2014)</b>	<b>Amanda Palmer</b>
<b>Stephen Matike-tita (2013)</b>	<b>Kyle Hadden</b>
<b>Fatima Sesay (2013)</b>	<b>Alli Kritter</b>
<b>Shawna Wade (2013)</b>	<b>Alina Lianguert</b>
<b>Steven Riera</b>	<b>Jessie Barfield</b>
<b>Brittany Brown</b>	<b>TaNeesh Jackson</b>
<b>Chelsie Reinert</b>	<b>Emily Blizzard</b>
<b>Kirsten Edwards</b>	<b>Dana Morris</b>
<b>Cassandra Lumpkin</b>	<b>Lori Klukowski</b>
<b>Katherine Heying</b>	

#### GRADUATE RESEARCHERS

<b>Liz Elliot (Williams)</b>	<b>began 2009; finished in fall 2011. Topic: Habitat selection in Eastern Gray Squirrels</b>
<b>Tim Moore</b>	<b>began 2010; finished in fall 2012. Topic: Foraging ecology of Ring-tailed Lemurs</b>
<b>Tiffany Burgess</b>	<b>began Fall 2011; finished in fall 2014. Topic: Female dominance and androgenic hormones in ring-tailed lemurs</b>
<b>Katherine King</b>	<b>began Fall 2011; finished spring 2013; non-thesis</b>
<b>Val Plummer</b>	<b>began Fall 2012; in progress</b>
<b>Emily Evans</b>	<b>began Spring 2014; in progress</b>
<b>Katrina Banderet</b>	<b>began Spring 2015; left program fall 2015</b>

SERVICE
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**Department**

2008-present Served on departmental committees, including Assessment committee, search committees, scholarship committee, advisory committee, advising committee, and ad personam committees. Currently I am chairing the assessment committee and the non-majors biology committee. I also provide teaching reviews for fellow faculty.

2008-present Served as a member of graduate committees

**College**

2012-2017 Developed and taught a workshop for incoming COSM faculty. The workshop took place in July 2012 - 2017. Two other COSM faculty and I designed, planned, and implemented the workshop. There were 8 participants in 2012, 6 participants in 2013, and 4 participants in 2014, 4 in 2015, 4 in 2016, and 8 in 2017.

2008-2011 Advisor in the COST advisement center. Responsibilities include advising over 200 freshman and sophomores each fall and spring. (compensated)

**University**

2017 Member of the Operational Working Groups for FYE and the OWG for the Core Curriculum.

2017 Member of the Provost's search committee. Search cancelled after one committee meeting.

2016-present President's Assessment Advisory Committee. Members advise and inform the president regarding assessment activities and attitudes on campus.

2016-present Serve as an Academic Assessment Leader to help facilitate Gen Ed and Core Curriculum assessment activities across campus.

2014—present Chaired the General Education and Core Curriculum Committee. As chair, I direct the activities of subcommittees and work directly on two of the three subcommittees.

2012-2014 Served as a member of the General Education Committee Assessment subcommittee (GECAT). The purpose of this subcommittee is to gather data regarding assessment of general education outcomes, propose action plans, and help departments implement action plans.

2012-present Served as a member of the Assessment Steering Committee for Georgia Southern University. As a member of the committee, I review program assessment documents for multiple programs across the university, and participate in workshops regarding program assessment.

2011-2014 Served as a member of the General Education and Core Curriculum Council (formerly General Education Council) for Georgia Southern University

2010 Wrote case studies that were used to enhance presentations during SOAR sessions for incoming students

2010-2012 Provided a workshop for probationary students for the COST Academic Advising Center

2008-2013 Facilitated a section of "Conversations with Professors" for incoming freshmen

2008-2015 Faculty advisor for Delta Sigma Phi

2008 "Active learning in large classes" presentation for the CET.

2008 Service presentation for the CET by the Service Learning FLC.

2007-2008 Session chair for the annual SOTL International Conference sponsored by the CET.

2007-fall 2014 Presented a study tips workshop for biology at the Academic Success Center.

2002-2005 Member of First-year Experience Council, Georgia Southern University.

1999-2004 Instructor, Wildlife Education Center Summer Science Camp, Georgia Southern University

1998-2005 Instructor for "Science and Math in the Outdoor Classroom" and "Project Sense:Life Science"

workshops for primary and secondary school teachers  
 1998-2001 Member, Botanical Garden Native Plant Symposium Committee, Georgia Southern University

### Public or Scholarly

2017-2018 Accuracy checked an online supplemental learning platform for the second edition of *Biology Now*, Houtman et al., Norton. (compensated)  
 2017 Wrote supplemental materials for MacMillan for a general biology text. *Biology for a Changing World*, 3e, by Schuster et al. (compensated)  
 2013-2015 Wrote supplemental materials for *LearnSmart*, a McGraw-Hill product, for an environmental science text (compensated)  
 2013 Reviewed manuscript for *Urban Ecology*  
 2012 Conducted a one-day workshop for in-service middle-grades teachers on science and the outdoor environment  
 2012 Wrote supplemental materials for textbooks, including case studies, end of chapter material, and online tutorials  
 2010 Reviewed manuscript for *Animal Behaviour*  
 2009-2010 Board member of Magnolia Midlands Georgia Youth Science and Technology Center (GYSTC)  
 2009-present Reviewer for National Center for Case Study Teaching in Science  
 2009-2010 Taught for Eagle Science Camp, a middle school science camp offered during the summer through the Georgia Southern Museum (compensated)  
 2008-present Reviewed textbook chapters and supplements for several book publishers, including Wiley and Sons, McGraw-Hill, Pearson Education, and W. H. Freeman, and Norton. (compensated)  
 2008 Curator for an exhibit for the Georgia Southern Museum entitled “Mad Scientist—Life Sciences”. On display from August 2008 to May 2009.  
 2008 Guest speaker for CCAT’s environmental awareness program  
 2008 Guest speaker for Mrs. Lynda Webb’s AP Psychology class at Statesboro High School.  
 2007-2008 Member of the Education Committee for the Botanical Garden, Georgia Southern University  
 2007 Invited Instructor for an AP workshop for high school teachers to learn what they can do to help their students be prepared for college. The workshop was state sponsored for the southeast region of Georgia; it was held at Southeast Bulloch High School. October 2007.  
 2007 Guest Instructor at a Teacher Workshop on active learning in Liberty County, GA. April 2007  
 2007 Conducted teacher evaluation of a student for Alabama Agricultural and Mechanical University  
 2007 COST representative at a workshop on teaching pre-service science teachers. February 2007.  
 2004 (April-June). Guest Instructor at Charter Conservatory for Liberal Arts and Technology (CCAT). A discovery class on the many uses of plants was taught to middle-school students.  
 2003 (Oct.-Dec.) Guest Instructor at Charter Conservatory for Liberal Arts and Technology. A botany class was taught to high-school students.  
 2003 (April-June) Guest Instructor at Charter Conservatory for Liberal Arts and Technology. A discovery class on the science and history of the Okefenokee Swamp was taught.  
 1995-2000 Assistant Editor, *Journal of Field Ornithology*  
 1998 Instructor, Post-Secondary Readiness Enrichment Program, Georgia Board of Regents  
 1996-1998 Member, Botanical Garden Education Committee, Georgia Southern University  
 1994 Member, Library Committee, Department of Physiology, Ball State University

### PROFESSIONAL DEVELOPMENT

Network of Conservation Educators and Practitioners. Workshop in Portland, OR prior to the ESA meeting. We scored CAT instruments from students of several faculty in the project, discussed the presentation to the ESA, and made plans for the future.

Assessment Workshop sponsored by Institutional Effectiveness at Georgia Southern. This was a two week workshop in August 2011.

Network of Conservation Educators and Practitioners. Workshop at Black Rock Forest, NY, to develop plans to

implement an NSF grant assessing the efficacy of teaching interventions in 3 areas-critical thinking, oral communication skills, and data-analysis. April, 2011.

Governor's Teaching Fellow. A year-long series of workshops designed to facilitate the use of current technologies and educational practices in the classroom. 2010-2011.

Annual Conference on Case Study Teaching. Hosted by the National Center for Case Study Teaching. A week-long workshop to teach faculty the benefits of using case studies, how to use case studies, and how to write case-studies. 2009.

Network of Conservation Educators and Practitioners. Workshop at Black Rock Forest, NY, to discuss improving teaching skills and develop a project implementing these skills in the classroom. Funded by an NSF grant to NCEP. 2008.

Annual SENCER Conference. SENCER is an NSF funded program advocating changes in teaching. Participants attend a variety of sessions on improving teaching skills and learning how to develop SENCER modules. The goal of the modules is to teach content by teaching *through* a relevant, interesting story with an emphasis on active learning. Prior to the conference I attended a SOTL workshop and after the conference I attended an active-teaching workshop. My project on Oral Scientific Literacy was developed at these workshops. 2007.

Reading Roundtables, hosted by the Center for Teaching, Learning, and Scholarship at Georgia Southern University. Annually from 2005-2008.

Faculty Learning Communities, hosted by the Center for Teaching, Learning, and Scholarship at Georgia Southern University. 2005-2008.

#### CONSULTING

McGraw-Hill Publishing. I have attended workshops to consult on textbook development.

2012 (September) – Workshop for development of supplemental products to accompany an environmental science textbook.

W. H. Freeman Publishing. I have attended workshops to consult on textbook development.

2011 (July) – Workshop for development of an environmental science textbook. I am writing some end-of-chapter content for this book.

2011 (March) – Workshop for development of an environmental science textbook. The text is in the preliminary stages (and is not the same as the one mentioned above).

2010 (December) – Workshop for critiquing the second edition of *What is Life?* by J. Phelan. I wrote case studies as supplements for the first and second editions.

Pearson Publishing. I have attended workshops to consult on textbook development.

2013 (October) -- Workshop for non-majors biology instructors to discuss best practices and consult with authors of non-majors textbooks, including Colleen Belk and Eric Simon.

2010 (April) – Workshop for instructors using *Mastering* products to discuss best practices using learning management systems.

2010. (February) – Workshop for non-majors biology instructors to discuss best practices and consult with authors of non-majors textbooks, including Colleen Belk and Ginny Borden, and Eric Simon.

2009 (February) – Workshop to consult/critique the third edition of Belk and Borden.

Norton Publishing. I have attended workshops to consult on textbook development.

2013 (November) – Workshop for consulting on development of a new non-majors textbook.