

**CURRICULUM VITAE**  
**DR. CHARLES WILLIAM GUNNELS IV**  
13 March 2019

**Positions:** Director, Office of Undergraduate Scholarship  
Director, FGCU's Quality Enhancement Plan (FGCUScholars: Think ~ Discover ~ Write)  
Associate Professor in Biological Sciences

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**EDUCATION**

**Traditional:**

PhD: University of Florida (UF), Gainesville, FL; Zoology  
MS: Utah State University (USU), Logan, UT; Biology  
BA: Skidmore College (SC), Saratoga Springs, NY; Biology

**Supplementary:**

Established Career Academy, Lucas Center for Faculty Development (2015)  
Project Kaleidoscope Summer Leadership Institutes (2012)  
Organization for Tropical Studies, OTS 00-1 (1996)  
Teach for America (1992-1993)

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**POSITIONS**

**Florida Gulf Coast University:**

Founding Director, Office of Undergraduate Scholarship (2014 – present)  
Supports the research activities and creative efforts of students  
Director of Florida Gulf Coast University's Quality Enhancement Plan (FGCUScholars: Think ~  
Discover ~ Write) (2014 – present)  
Associate Professor, Department of Biological Sciences (2014 – present)  
Biology BA, Program Leader Department of Biological Sciences (2010 – 2015)  
FGCU Faculty Senate Vice President (2013 – 2014)  
Interim Director of Undergraduate Research in the College of Arts and Sciences (2011 – 2013)  
Assistant Professor, Department of Biological Sciences (2007 – 2014)

**University of Florida:**

Lecturer, Biological Sciences Program (2006 – 2007)

**Council on Undergraduate Research**

Councilor, Undergraduate Research Program Division (2016 – present)  
Chair, Undergraduate Research Program Division (2018 – present)  
Vice-Chair, Undergraduate Research Program Division (2017 – 2018)

**Corkscrew Land and Water Trust** (CREW Land and Water Trust is a private, non-profit conservation organization dedicated to the preservation and stewardship of the water resources and natural communities in and around the Corkscrew Regional Ecosystem Watershed (CREW))  
 Board Trustee (2010 – present)  
 Environmental Education Chair (2014 – present)

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## ACADEMIC ADMINISTRATION

Founding Director for both the Office of Undergraduate Scholarship and the university's Quality Enhancement Plan (FGCUScholars: Think ~ Discover ~ Write), November 2014 – Present

- Created the Office of Undergraduate Scholarship, which houses the university's Quality Enhancement Plan (FGCUScholars: Think • Discover • Write)
- Managed operating budget of \$210,000
  - Overcame budget cuts that reduced financial support to the office by over 60%.  
Accomplished this by fostering collaborations with more well-funded offices and units.
- Hired and supervised Office of Undergraduate Scholarship staff, including Office Manager, 9 Faculty Scholars, and 3 QEP Lead Faculty
- Organized an advisor group of student leaders (FGCUScholar Ambassadors) who help with the implementation of the Quality Enhancement Plan by creating student-focused programming and opportunities
- Co-created and –managed the Honors Summer Research Fellowship with the FGCU Honors College that provided REU-inspired scholarly experiences for undergraduate research students and faculty mentors from across the university. \$140,000 each summer
- Co-created and –managed the Communities in Transitions initiative with the Honors College and Office of Service-Learning and Community Engagement that research faculty/student teams could respond proactively to disturbances that have dramatic effects on communities in a way that creates rich and meaningful research and service opportunities for students and faculty, and that allows FGCU to take a leadership role in statewide and region-wide rebuilding and recovery efforts. \$160,000 each summer
- Co-created and -managed Undergraduate Student Scholarship Support Award mini grants with the Office of Research and Graduate Studies; Dispersed \$35,000 + annually to support student scholarship, research, and creative endeavors of students across the university
- Co-organized the annual Community-Engaged Symposium with the Office of Service-Learning and Civic Engagement
- Co-created and –managed Community-Engaged Scholars granting program with the Offices of Undergraduate Studies and Service-Learning & Civic Engagement; Community-Engaged Scholars mini grants support faculty and students that work with community partners on mutually beneficial research projects.
- Co-created and –managed Innovative Assignment Design Grants with the General Education Program. These awards support faculty that enhance learning outcomes associated with FGCUScholars (FGCU's QEP) and/ or the General Education Program.
- Supported the professional development of faculty through the creation of faculty learning communities and panel discussions. Explored topics have included authentic research-embedded courses, assessment, active learning strategies, and developing skill-based curriculums.
- Co-Sponsored and –created the Writing Awards and associated gala with the FGCU Writing Center. Awards to recognize excellence in student writing from first-year through graduating seniors in all academic units.
- Published and fostered collaboration between FGCU's two undergraduate research journals: Aquila (FGCU's undergraduate research journal) and Mangrove Review (FGCU's creative endeavor journal)

- Created and sponsored the bi-annual Showcase on Undergraduate Research Experiences (S.U.R.E.). The SURE events are held at the beginning of each semester where students describe their scholarly experience while describing results of their research. This event explicitly invites first and second year students so that the next generation of students can learn how to engage in undergraduate research from their peers.
- Co-organized fall- and spring-semester STEM research symposium, with Whitaker Center for STEM Education
- Co-created and –organized the Honors Research Symposium so that students in the FGCU Honors College had the opportunity to share results of their research, creativity, and other scholarly activities.
- Coordinated annual university-wide assessments of student writing, critical thinking, and information literacy. Assessed products included artifacts from first-year, Composition II, students and graduating seniors from 8 programs across the university in Year-0 and 16 programs in Year-1, and 16 programs in Year-2.
- Facilitated the use of assessment results to encourage improved student success and learning. For example, student critical thinking and information literacy increased by 18% and 16%, respectively, between Year-2 and Year-1 of FGCUScholars.
- Facilitated faculty-development workshops, including New-Faculty Academy, Reflective Reading and Writing, Community-Engaged Scholar Teaching Cell, Innovative Assignment Teaching Cell, and Tea Time with the QEP
- Sponsored a speaker series that has brought leading thinkers, writers, and scholars to campus to foster the continued professional development of students and faculty
- Co-created and -managed the Eagle Work Study Research in collaboration with Financial Aid and TRIO. This program ensured that students with financial needs are able to participate in their faculty-mentored research for their work-study award
- Collaborated with on-campus offices such as Lucas Center for Faculty Development, Writing Center, Honor’s Program, and FGCU Technology
- Created and managed FGCUScholars/ Office of Undergraduate Scholarship communication and social media outlets, including website ([www.fgcu.edu/ous](http://www.fgcu.edu/ous)), bi-monthly newsletter, Facebook, and Instagram sites
- Served on the Office of Undergraduate Studies Leadership Team
- Served on the Honors Executive Board.
  - Supported the transition from the Honors Program to the Honors College as well as the relationship between Honors and undergraduate scholarly activities, research efforts, and creative endeavors
  - Developed the Pillars of the Honors College logo
- Mentored and advised students pursuing undergraduate scholarly activities to include research and creative endeavors
- Mentored and advised faculty wishing to support undergraduate scholarly activities, research efforts, and creative endeavors
- Led workshops to introduce both incoming first-year and transfer students to the Office of Undergraduate Scholarship and FGCUScholars as part of the Eagle View Orientation program
- Led university-wide meetings to develop plans for the implementation of FGCUScholars: Think ~ Discover ~ Write
- Oversaw and created the visual identity of FGCUScholar, including logos, slogans, and web page
- Spearheaded the campus-wide awareness campaign for the QEP (FGCUScholars) to include students, staff, faculty, and community in preparation for the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) on-site visit.
- Led the university’s QEP presentation to the SACSCOC on-site visit, which was a central feature of the reaffirmation of accreditation. Led discussions about undergraduate research/ scholarly activities, assessment, QEP development, and QEP implement

#### Vice President, Faculty Senate, FGCU, August 2013 – December 2014

- Advised President and Elected Officers
- Served on Faculty Senate Leadership Team
- Collaborated to create biweekly Faculty Senate agenda
- Increased communication and transparency of Faculty Senate through the creation and dissemination of a biweekly survey. This instrument encouraged faculty to share perspectives and concerns about issues being discussed in the senate. This also ensured that faculty were represented as accurately as possible in the Faculty Senate.
- Ran biweekly Faculty Senate and Senate Leadership Team meetings when the Faculty Senate President was unavailable
- Led collaborations between the Faculty Senate, Student Government, and Staff Advisory Council in the development of a shared position, such as the FGCU campus smoking policy and prohibition
- Led reforms to FGCU Faculty Teaching, Research, and Service Excellence Awards, which both streamlined the process and increased transparency

#### Undergraduate Program Leader, Biology BA, 2010 – 2015

- Advised chair for the Department of Biological Sciences
- Mentored and advised potential and current Biology BA students
- Oversaw curriculum development. Notable changes included reforms to the capstone course so that graduating seniors could complete their undergraduate research requirement in a classroom setting
- Completed annual review of student performance
- Prepared biennial assessment reviews (2011 and 2013) and the programs seven-year review for the Board of Governors (2014). In particular, the 7-year review led to the graduation of a Master Degree program (slated to begin in 2019), which is designed to help support the dramatic expansion in the number of undergraduate students pursuing a degree in biology (Declared Majors: 2007 = 483 students, 2013 = 952 students).

## TEACHING

### Study Abroad/Away Faculty Leader:

Florida Gulf Coast University

2018

Peru

Co-led an Honors study abroad trip to Peru, including the coastal, highland, and Amazonia environments. Students explored the interaction between human and non-human life in both a present day and historical context.

2016 & 2018

Trinidad and Tobago

Co-led an Honors study abroad trip to Trinidad and Tobago. Students explored the history, culture and environment of Trinidad and Tobago through experiential learning and cultural immersion, using calypso and conservation as the twin lenses of analysis.

2015

Washington, DC and Adirondacks, NY

Co-led an Honors study away trip to Washington, DC and the Adirondacks of upstate NY. Students examined the role of animals in society, including the relationship between animal welfare/ rights and how this compares and differs from animal conservation.

2013 & 2014

Dominican Republic Outreach Program (Santiago, Dominican Republic)

Co-led alternative spring trip to Santiago, Dominican Republic for 14 – 16 FGCU students. FGCU students engaged in service-learning effort with at-risk street boys at Acción Callejera, an outreach center in downtown Santiago, Dominican Republic.

- 2012 Ecuador, including the Galapagos Islands  
Co-led an Honors study abroad trip to Ecuador, including the Galapagos Islands. Students learned about the history and culture of Ecuador as well as the natural history and evolution of the Galapagos flora and fauna.

**Course Instructor:**

Florida Gulf Coast University

1. Animal Behavior (Developed)
2. Animal Lives, Animal Histories and the State (Developed for Washington DC and Adirondack Honors Program study-away trip)
3. Applied Ethology (Developed for Honors Program)
4. Behavioral Ecology (Developed)
5. Biological Sciences (Non-Major Introductory Biology)
6. Biological Statistics in R (Developed)
7. Carnival, Culture and Conservation in Trinidad and Tobago (Developed for Trinidad and Tobago Honors College study-abroad trip)
8. Current Topics in Biology: “This week in Science (or Nature)” (Developed)
9. Directed Independent Study/ Research in Biology
10. Ecology
11. General Biology 1010C (Revised)
12. General Education Biology
13. Honor’s Reading Course: Biology of Homosexuality (Developed)
14. Honor’s Reading Course: Consilience (Developed)
15. Honor’s Reading Course: Selfish Genetic Elements (Developed)
16. Honors Research Symposium (Revised)
17. Independent Research in Biology: Applied Ethology (Developed)
18. Independent Study in Biology: Intragenomic Conflicts (Developed)
19. Independent Study in Environmental Studies: Biometry (Developed)
20. Independent Study in Environmental Studies: Conservation Behavior (Developed)
21. Independent Study in Environmental Science: Data Analysis in R (Developed)
22. Independent Studies in Environmental Studies: Entomology (Developed)
23. Independent Study in Environmental Sciences: Survey Data Analysis (Developed)
24. Independent Studies in Environmental Studies: Urban Ecology (Developed)
25. Life in Peru (Developed for the Peru Honors College study-abroad trip)
26. Scientific Process (Revised)
27. Senior Project Research in Biology BS & BA (Developed sections of class-directed research)
28. Senior Project Presentation in Biology
29. Senior Project Presentation in Biotechnology
30. Senior Project Research in Environmental Studies BA
31. Special Topics: Biological Data Analysis in R (Developed)
32. Special Topics: Natural Selection in Ecuador and the Galapagos (Developed for Ecuador and the Galapagos Honors Program study-abroad trip)
33. University Colloquium (Developed international section for Ecuador and the Galapagos Honors Program study-abroad trip)
34. University Colloquium (Developed international section for the Peru Honors College study-abroad trip)

**Graduate Student Research Mentoring:**

Florida Gulf Coast University

Chaired 5 students

- Samantha Troast, Distribution of the Barhminy Blind Snake in Southwest Florida (2017 – present)
- Dominique Rossetti, Cultural Representation of Nature, Environment, Wild, and Wildlife (2015 – present)
- Santiago Luaces, Distribution of burrowing owls in an urbanizing environment (2014 – 2018)
- Tesla Richards, Effect of urbanization on population demography, dietary preference, and predatory defense mechanisms of Southern Ringneck Snake (*Diadophis punctatus punctatus*) (2014 – 2017)
- Nicole LeGros, Human preference for responsiveness in shelter dogs (2012 – 2014)
- Ariel Chomey, Effect of pets on a person's environmental perspective and ecological literacy (2011 – 2014)

Graduate Committee

Studies

- Kristina Shope, Disturbance impacts on nesting black skimmers (2017 – present)
- Matthew Metcalfe, Home Range and Habitat of Indigo Snakes in Rookery Bay, FL (2014-2017)
- Betsy Evans, Dynamics of an urban vulture roost in Southwest Florida and responses of vultures to roost dispersal management efforts (2011 – 2014)

**Undergraduate Student Research Mentoring:**

Florida Gulf Coast University

Undergraduate Research

65 students in faculty-mentored undergraduate research.

Studies:

1. Distribution of herpetofauna to human development patterns in the Peruvian Amazon (2018 – present), 1 student
2. Effect of variable anti-predatory displays of the Southern Ringneck Snake (*Diadophis punctatus punctatus*) to different predators (2017 – present), 1 student
3. Preference and avoidances in the social networks of mature captive male Giraffes (*Giraffa camelopardalis*) (2017 – present), 1 student
4. Understanding the treatments behind canine anxiety: a comparison study of trazodone vs. alprazolam (2016 – 2017), 2 students
5. Effect of scientific evidence on ethical decision making in humans (2015 – 2016), 1 student
6. Environmental factors on millipede density at Kleist center (2015), 1 student
7. Effect of habitat isolation on bird biophanies in cypress domes (2014 – 2015), 4 students
8. Effect of coat color and coat pattern on social interactions among large domestic dogs (2014 – 2015), 1 student
9. FGCU Food Forest effects on student's understanding of permaculture and service (2013 – 2014), 1 student
10. Beef cattle vigilance in presence of human post parturition (2013 – 2014), 1 student
11. Foraging behavior of Snowy Egrets and Tri-Color Herons (2013 – 2014), 1 student
12. Establishment of social networks, including homosexual displays, among captive adolescent male giraffes (*Giraffa camelopardalis*) (2012 – 2013), 2 students

13. Effect of lion roar location (*Panthera leo*) on the behavior of captive zoo animals (2012 – 2013), 2 students
  14. Burrow preference of indigo snakes (*Drymarchon couperi*) in a landscape that lacks gopher tortoise burrows (*Gopherus polyphemus*) (2012 – 2013), 1 student
  15. Daily vocalization patterns in urban roosting Brazilian free-tailed bats (*Tadarida brasiliensis*) (2012), 1 student
  16. Population ecology of Cuban paper wasps (*Mischocyttarus mexicanus*) in southeast FL (2012), 1 student
  17. Role of kennel switching as a source of enrichment for shelter dogs (*Canis familiaris*) (2011 – 2013), 4 students
  18. Gender equality, household relationships, and domestic violence in the development of Galapagos society (2011 – 2013), 11 students
  19. Response of shelter dog's (*Canis familiaris*) to human signals (2011 – 2012), 3 students
  20. Roadkill survey of Corkscrew Road, Lee County, FL (2011 – 2012), 1 student
  21. Response of dog (*Canis familiaris*) to child-specific behavioral patterns (2010 – 2012), 2 students
  22. Effect of environmental factors on reproductive and life history traits of the golden orb weaving spider (*Nephila clavipes*) (2010 – 2011), 2 students
  23. Ability of sabal palm trees (*Sabal palmetto*) to support urban wildlife (2009 – 2011), 1 student
  24. Effects of the *shaker* gene on fruit fly (*Drosophila melanogaster*) life history traits (2010 – 2011), 4 students
  25. Hermit crab (*Coenobita clypeatus*) shell preference (2009 – 2010), 2 students
  26. Effects of lunar phase and habitat structure on the distribution of syntopic rodents (*Peromyscus gossypinus* & *Sigmodon hispidus*) (2009 – 2010), 1 student
  27. Costs and benefits associated with bidirectional filial care in a eusocial paper wasp (*Mischocyttarus mexicanus*) (2008 – 2010), 4 students
  28. Effects of external sounds, such as music, on cat (*Felis domesticus*) behavior (2010 – 2011), 2 students
  29. Measured arthropod diversity as an indicator of ecological restoration in the Panther Island Mitigation Bank, Collier County, FL (2010), 1 student
  30. Effects of prescribed fires and lunar phases on rodent (*Peromyscus gossypinus* & *Sigmodon hispidus*) distribution (2009), 1 student
  31. Effects of social groups on human female preference for male scent (2009 – 2010), 3 students
  32. Endobiotes associated with bidirectional parental care in a eusocial paper wasp (*Mischocyttarus mexicanus*) (2009 – 2010), 2 students
  33. Presence of sociality among basking freshwater turtles (*Pseudemys nelsoni*) (2009 – 2010), 2 students
  34. Illustrated guide to selfish genetic elements website (2009 – 2010), 1 student
- 180 students in class-directed undergraduate research.
1. Distribution of Lepidoptera on the campus of FGCU (2011 – 2016)
  2. Effect of the structure of vocal sequence on gibbon communication (2015 – 2016)
  3. Effect of urbanization on a primitively eusocial paper wasp (*Mischocyttarus mexicanus*) nesting patterns (2015 – 2016)
  4. Human disturbance affecting the abundance of south west Florida fish species in Whitaker Lade (2014 – 2015)
  5. Call frequency in the dog-day cicada (*Tibicen davisi davisi*) (2014 – 2015)
  6. Color variation in southern toad relative to weight (2014 – 2015)
  7. Desensitization of Cuban brown anoles (*Anolis sagrei*) in habitats with high human foot traffic (2014 – 2015)

8. Effect of wild hogs on soil microbial communities (2013 – 2014)
9. Seasonal change in lake morphology of restored marshes and ponds (2013 – 2014)
10. Seasonal variation in water turbidity in restored wetlands (2013 – 2014)
11. Effect of urbanization on apple snail reproductive investment (2013 – 2014)
12. Measure of social fish sampling bias with breder traps (2013 – 2014)
13. Antibacterial activity of hydrosols isolated from native plants in Southwest Florida (2013 – 2014)
14. Response of Florida forest to control of the invasive tree *Melaleuca* (2013 – 2014)
15. Effect of natural trails on macroinvertebrate leaf litter communities (2013 – 2014)
16. Effect of lake chemistry on zooplankton abundance (2013 – 2014)
17. Effect of habitat on changes in water chemistry of restored wetlands (2013 – 2014)
18. Effect of canopy structure on the attenuation of the Red-Bellied Woodpecker Kwirr call (2013)
19. Effect of human activity on urbanized Brazilian free-tailed roosting calls (2013)
20. Effect of behavioral posture on anti-predatory behavior of juvenile garter snakes (2012 – 2013)
21. Effect of urban environments on frog calls (2012 – 2013)
22. Tail coiling behavior of the southern ringneck snake (*Diadophis punctatus punctatus*) (2011 – 2013)
23. Pollinator efficiency of the marsh pink (*Sabatia stellaris*) (2012)
24. Anti-predator behavior of Gambusia to exotic predators (2011 – 2012)
25. Effect of color on cleaning behavior of the orchard weaving spider (*Leucauge venusta*) (2011 – 2012)
26. Effect of kleptoparasitism by on the golden orb weaving spider (*Nephila clavipes*) (2011)

#### Student Publication

- Bowles, Shannon (2019)
- Baker, Jessica (2016) Biases Trump Evidence in Beliefs About Animal Welfare. *Aquila: The FGCU Student Research Journal* 2: 9-16.

#### Mentored Honors Theses

- Walters, Rachel (2017) A primary investigation of concentrations of chemicals of emerging concern in private and public water supplies in Southwest Florida.
- Richards, Tesla (2013) Establishment of social networks, including homosexual displays, among captive adolescent male giraffes (*Giraffa camelopardalis*)
- Mesa Eileen (2013) Role of kennel switching as a source of enrichment for shelter dogs (*Canis familiaris*)

#### Mentored Student Awards

- Eileen Mesa (2012) Florida Gulf Coast University Nominee for Barry Goldwater Scholarship.
- Raphael Benakas (2012) College of Arts and Sciences Dean's Poster of the Year Award: Effect of human tears on bonding and aid providing behavior.

#### University of Florida

10 students participated in undergraduate research.

#### Study:

- Examined social organization and reproduction in a primitively eusocial paper wasp (*Mischocyttarus mexicanus*)



## PROFESSIONAL SOCIETIES

Sigma Xi, Animal Behavior Society, AAAS, and Council on Undergraduate Research

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### SERVICE

#### Initiated programs:

Florida Gulf Coast University:

WiSER Eagles (2018 – present)

The WiSER Eagles initiative provides scholarly opportunities to students who cannot participate in undergraduate research typically due to financial needs or similar situations, while supporting the scholarly activity of the participating faculty.

Showcase on Undergraduate Research Experiences (SURE) (2018 - present)

Students across results of research and creative activities and participate in professional development workshops

Communities in Transition (2018 – present)

Supports collaborative community-engaged research to respond proactively to disturbance episodes that have dramatic effects on communities in a way that creates rich and meaningful research and service opportunities for students and faculty, and that allows FGCU to take a leadership role in statewide and region-wide improving, rebuilding, and recovery efforts.

Meant to be Mentors (2018 – present)

Serves to celebrate the extraordinary faculty and or staff member at FGCU helped students become scholars. An exceptional mentor has the ability to impact the growth and development of students that participate in a research, creative, or scholarly effort. Students nominate and select recipients.

FGCUScholar Ambassadors (2016 – present)

FGCUScholar Ambassadors are student leaders who help peers realize more meaningful and representative experiences within their college and university by helping them develop stronger critical thinking, information literacy, and writing skills as these they mature into scholars within their majors.

Community-Engaged Scholars grants (2016 – present)

mini grants support faculty and students that work with community partners on mutually beneficial research projects

Innovative Assignment Design grants (2016 – present)

Mini-grants to support faculty classroom innovations, including the development of authentic course-embedded research experiences

FGCU Writing Awards (2016 – present)

Annual competition to recognize the best student writers from each academic unit

Undergraduate Student Scholarship Support Award grants (2015 – present)

Mini-grants to support student travel and research supplies

Annual STEM Undergraduate Research and Internship Symposium (2011 – present)

Students from multiple colleges and programs present results of their research each fall & spring semester

Faculty Senate CAS Surveys (2012 – present)

Developed and implemented a bi-weekly survey to measure CAS faculty concerns that could then be addressed at faculty senate

Animal Behavior Research Group at Florida Gulf Coast University (2008 – present)

Group of graduate and undergraduate students that discuss implications of recent scientific findings on society and academics. In addition, students professionalize their career aspirations. Students peer-review each other research program as well as prepare themselves for careers in

health professions, law, or graduate school by improving their CV, personal statements, and interview skills.

University of Florida:

Zoology Graduate Student Teaching and Paper Awards (2003)

Led the creation of awards recognizing excellence among graduate students

Skidmore College:

President of Environmental Action Club (1991)

Formed and presided over the first year of the club, which led to the preservation of 600 acres of campus woodlands for academic, scientific, and recreational uses.

President of Gay and Lesbian Alliance (1991)

Increased exposure of gay and lesbian rights at Skidmore College, including the successfully inclusion of “sexual orientation” in the college’s affirmative action policy

**Academic service:**

International/ National Organizations:

Councilor on Undergraduate Research

Undergraduate Research Program Division, Council on Undergraduate Research (2016 – present)

Chair, Undergraduate Research Program Division (2018 – present)

Vice-Chair, Undergraduate Research Program Division (2017 – 2018)

Student Programming Task Force, Council on Undergraduate Research (2016 – present)

Regional Organizations:

Life Sciences South Florida (LSSF) STEM Undergraduate Research Organizing Committee (2015 – present)

Florida Gulf Coast University:

Search Committee for the Director, Honors Competitive Fellowships (2018 – 2019)

Search Committee for Assistant Professor Wildlife Biologist (2018 – 2019)

Biodiversity Conference: Red Tide Impacts in the Gulf steering committee (2018 – 2019)

Founding Director, Office of Undergraduate Scholarship (2014 – present)

Founding Director, Quality Enhancement Plan (2014 – present)

Chair, Community-Engaged Scholarship Symposium steering committee (2015 – present)

New Faculty Orientation FGCUScholars: Think • Discover • Write Workshop (2015 – present)

New Faculty Mentor Coach, Lucas Center for Faculty Development (2014 – present)

Wellness@FGCU (2016 – 2018)

Innovative Assignment Design Grant, Faculty Learning Community (2016 - 2018)

Conserving Biodiversity: Challenges for Florida in the Anthropocene steering committee (2016 – 2017)

Southern Ecology and Evolution Conference faculty advisor (2016 – 2017)

Hiking Club, Faculty Advisory (2015 – 2017)

Research Lab Coordinator for Whitaker Hall 242 (2009 – 2016)

Tea Time with the QEP Workshop Series (2016)

Chair, High Impact Experiences Ephemeral Team (2015 – 2016)

Pathway to Opportunities Ephemeral Team (2015 – 2016)

Search Committee for the Director, Lucas Center for Faculty Development (2015 – 2016)

College-Level Writing Skills (CLWS) Task Force (2015)

Search Committee for the Head of Reference, Research, and Information for FGCU Library (2015)

Chair, Search Committee for Director of the FGCU Honors Program (2014 – 2015)

Quality Enhancement Program – Steering Committee (2013 – 2015)

FGCU Faculty Senate Vice President (2013 – 2014)  
 Faculty Senate (2007 – 2008 & 2012 – 2014)  
 Program Leader for the Biology BA (2010 – 2015)  
 Quality Enhancement Program – Writing Review Team (2012 – 2013)  
 Interim Direction of the Undergraduate Research in the College of Arts and Sciences (2011 – 2012)  
 Chair, College of Arts and Sciences Ephemeral Reorganization Team (2011 – 2012)  
 Chair, Proposal Writing Team – Undergraduate Research and Scholarship – for FGCU’s Quality Enhancement Plan (2011 – 2012)  
 Search Committee for Assistant Professor in Curriculum and Instruction in College of Education (2011 – 2012)  
 Search Committee for Associate/ Full Professor Biologist (2010 – 2011)  
 Search Committee for Assistant Professor Geneticist (2009 – 2010)  
 Biology Instructor Search Committee (2008 – 2009 & 2009 – 2010)  
 Whitaker Center Leadership Team (2008 – 2010)  
 Campus Greenhouse design and proposal (2008)

University of Florida:

Student Representative on Graduate Committee (2005 – 2006)  
 Chaired, Zoology Graduate Student Teaching and Paper Awards Committee (2004 – 2005)  
 Evolutionary Biologist Search Committee, Graduate Student Representative (2003 – 2004)

Utah State University:

Graduate Student Senator (1997 – 1998)

Skidmore College:

Environmental Action Club, President (1990 – 1991)  
 Gay and Lesbian Alliance, President (1990 – 1991)

**Website creation and maintenance: (URL included for active websites)**

International Societies:

International Council of Ethologists (2005 – 2008)

University:

Office of Undergraduate Scholarship (2015 – present)  
 (<http://www.fgcu.edu/ous>)

**Community outreach:**

Florida Gulf Coast University:

CREW Land and Water Trust: Trustee (2010 – present)  
 Chair, Environmental Education Committee (2013 – 2018)  
 Tree-Climbing Experience (2012 – 2017)  
 Southwest Florida Frog Watch (2011 – present)  
 Annual North American Butterfly Association butterfly count at Panther Mitigation Bank (2011 – present)  
 Corkscrew Watershed Science Forum steering committee (2016 – 2017)  
 CREW Land and Water Trust: Wildflower Planning Committee (2012 – 2013)  
 Celebrating the 50<sup>th</sup> Anniversary of “Silent Spring” Planning Committee (2012)  
 Ask an expert: Lee County Science Fair (2008 – 2009)  
 Community Day (2008)

Public Speaker:

Camp West Bay, Estero, FL (2019)  
 Historical Zoology: Galapagos Wildlife, Lexington Middle School, Fort Myers, FL (2019)  
 Strolling Science Series, CREW Land and Water Trust: Humanity of Wildlife (2016)  
 Greater Naples Dog Club: Human Preferences for Dogs that use Simple Cues (2015)  
 Florida Native Plant Society, Coccoloba Chapter: How sabal palms support urban wildlife (2015)  
 Greater Naples Dog Club: Our unconscious bridge to nature: The role of pets and animal views in a  
 person's environmental attitudes, conservation habits, and scientific knowledge (2014)  
 Strolling Science Series, CREW Land and Water Trust: Science in a Day (2014)  
 The United Church of Christ, Naples, FL: Evolution of Human Behavior (2013)  
 Strolling Science Series, CREW Land and Water Trust: Evolution in the CREW (2013)  
 Lamb of God Church, Estero, FL: Evolution Weekend (2012)  
 Strolling Science Series, CREW Land and Water Trust: Through Animals' Eyes (2012)  
 Strolling Science Series, CREW Land and Water Trust: Pollination (2012)  
 Greater Naples Dog Club: Dog Research at FGCU (2012)  
 Cape Coral Library: Darwinian Medicine (2012)  
 FGCU Student Residents: The Human Animal (2008 & 2009)

Science Fair Judge:

Organized Grand Judging, Thomas Alva Edison Regional Science and Inventors (2016)  
 Grand Judge, Thomas Alva Edison Regional Science and Inventors (2009 – 2016)  
 Alachua County Science Fair, FL (1999 & 2003 – 4)  
 Cache County Science Fair, UT (1996 & 1998)  
 Avoyelles Parish Science Fair, LA (1993)

**Manuscript Review:**

Council on Undergraduate Research  
 Biological Journal of the Linnean Society  
 Journal of Insect Behavior  
 Insectes Sociaux

**AWARDS**

Team Faculty Service Excellence Award: Wellness@FGCU, Florida Gulf Coast University, Fort Myers, FL  
 (2016 – 2017)  
 Presidential Award – Best Faculty Oral Presentation: Historical Zoology: Development of a Novel  
 Multidisciplinary Approach to Study the History and Biology of Human-Animal Interactions, 17<sup>th</sup> Annual  
 FGCU Research Day, Fort Myers, FL (2014)  
 Presidential Award – Best Practice in Teaching Poster: Funding Panel Simulation in the Scientific Process  
 Course, 16<sup>th</sup> Annual FGCU Research Day, Fort Myers, FL (2013)  
 Individual Faculty Service Excellence Award: Florida Gulf Coast University, Fort Myers, FL (2012 – 2013)  
 Junior Faculty Teaching Excellence Award: Florida Gulf Coast University, Fort Myers, FL (2010 – 2011)  
 Teaching Assistant of the Year: Department of Biology, Utah State University, Logan, UT (1998 & 1999)  
 Katharine Scranton Rozendaal Award: Skidmore College, Saratoga Springs, NY (1992)  
 Award bestows Skidmore's highest honor on a student for his or her service to the campus and  
 community  
 Eagle Scout: Boy Scouts of America (1988)

**GRANTS**

- Sean Kelly Foundation: Co-PI: Nicola Foote, Galapagos Islands Research (2019: \$12,000)
- FGCU Global Studies Initiative (2017-2018: \$3,500): Co-PI: Nicola Foote, Global Learning Initiative and Research, Service-Learning and Teaching Through Trinidad and Tobago.
- FGCU Multi-Disciplinary Research Initiative 2013 – 2014 (2013 – 2014: \$15,000): Co-PI: Nicola Foote: Science and Society in the Galapagos Islands.
- FGCU Professional Developmental Grant (2013: \$1,200): Of Love and Other Demons: Household Relationships, Gender Equality, and Domestic Violence in the Development of Galapagos Society.
- Southwest Florida Community Foundation (2009 – 2012: \$25,000): Co-PI: Sean Kelly & Tunde Szecsi: Florida Gulf Coast University Honors Program's Humane Research Group
- EPA STAR Fellow (2003 – 6: \$81,000): Co-PI: H. Jane Brockmann: Alternative reproductive strategies and group dynamics in a facultatively eusocial paper wasp
- Sigma Xi (2003: \$687): Evaluation of Reproductive Skew in a Primitively Eusocial Paper Wasp, *Mischocyttarus mexicanus*
- American Museum of Natural History: Theodore Roosevelt Memorial Grant (2001: \$1500): The role of ecological constraints in predicting the reproductive strategy of developing and emergent *Mischocyttarus mexicanus* (Hymenoptera: Polistes) females
- Animal Behavior Student Research Grant (2001: \$500): The role of ecological constraints in predicting the reproductive strategy of developing and emergent *Mischocyttarus mexicanus* (Hymenoptera: Polistes) females

#### MENTORED GRANTS

- Honors Professional Development Grant (Funded: 2018 - \$1500): Student: Lyndsay Hopper: Predator response to the anti-predatory display of Southern Ringneck Snake (*Diadophis punctatus punctatus*).
- Whitaker Center for STEM Education: Blair Foundation Environmental Sciences Scholarship (Funded: 2016 – \$5000): Student – Tesla Richards: Effect of urbanization on population demography and predatory defense mechanisms of Southern Ringneck Snake (*Diadophis punctatus punctatus*) populations in south Florida.
- FGCU Office of Research and Graduate Studies' Undergraduate Travel Grant (Funded: 2013 – \$281): Student – Tesla Richards: Establishment of social networks, including homosexual displays, among captive adolescent male giraffes (*Giraffa camelopardalis*), The 3<sup>rd</sup> Annual Florida Undergraduate Research Conference.
- Whitaker Center Undergraduate Research Mini-Grant Award (Funded: 2011 – \$459.15): Student – Raphael Benaksas: Effects of human tears on aid giving and bonding behavior.
- FGCU Office of Research and Sponsored Programs' Undergraduate Travel Grant (Funded: 2011 – \$500): Student – Alyssa Codes: Child behavioral patterns that trigger shelter canine bites. International Society of Anthrozoology Meeting 2011.
- Whitaker Center Undergraduate Student Request for Travel Funds (Funded: 2011 – \$200): Student – Alyssa Codes: Child behavioral patterns that trigger shelter canine bites. International Society of Anthrozoology Meeting 2011.
- Explorer Club Research Grant (Funded: 2010 – \$1000): Student – David Cavanaugh: Resource competition among female *Nephila clavipes* (Golden Silk Spider) at different heights in forests of southwest Florida.
- FGCU Office of Research and Sponsored Programs' Undergraduate Travel Grant (Funded: 2010 – \$300): Student – Virginia Crosbie: The effects of bidirectional care on the endobiotic community in the paper wasp, *Mischocyttarus mexicanus*. Association of Southeastern Biologist Annual Meeting 2010.
- FGCU Office of Research and Sponsored Programs' Undergraduate Travel Grant (Funded: 2010 – \$300): Student – Allyson Schmidt: The effects of bidirectional care on the endobiotic community in the paper wasp, *Mischocyttarus mexicanus*. Association of Southeastern Biologist Annual Meeting 2010.
- Whitaker Center Undergraduate Student Request for Travel Funds (Funded: 2010 – \$385): Student – Virginia Crosbie: The effects of bidirectional care on the endobiotic community in the paper wasp, *Mischocyttarus mexicanus*. Association of Southeastern Biologist Annual Meeting 2010.

- Whitaker Center Undergraduate Student Request for Travel Funds (Funded: 2010 – \$385): Student – Allyson Schmidt: The effects of bidirectional care on the endobiotic community in the paper wasp, *Mischocyttarus mexicanus*. Association of Southeastern Biologist Annual Meeting 2010.
- Whitaker Center Undergraduate Research Mini-Grant Award (Funded: 2009 – \$500): Student – David Cavanaugh: Resource competition among female *Nephila clavipes* (Golden Silk Spider) at different heights in forests of Southwest Florida.
- FGCU Office of Research and Sponsored Programs' Undergraduate Research Grant (Funded: 2009 – \$500): Student – Aldo Nardiello: Selfish genetic elements: an illustrated guide to the genes that hate you.
- Whitaker Center Undergraduate Student Request for Travel Funds (Funded: 2009 – \$468): Student – Elliot Kneba: What does the behavior of *Mischocyttarus mexicanus* larva tells us about the larva's willingness to trophallaxis? 6<sup>th</sup> Annual Southeastern Ecology and Evolution Conference.
- Whitaker Center Undergraduate Student Request for Travel Funds (Funded: 2009 – \$283): Student – Jason Pruitt: Healthy *Mischocyttarus mexicanus* larvae are more helpful. 6<sup>th</sup> Annual Southeastern Ecology and Evolution Conference.
- Whitaker Center Undergraduate Mini-Grant Research Award (Funded: 2008 – \$500): Student – Hannah Diss: The role of sociality in the conservation of urban population of red-bellied sliders.
- Whitaker Center Undergraduate Mini-Grant Research Award (Funded: 2008 – \$500): Student – Gayla Schraeder: Mark Bekoff at Florida Gulf Coast University: Honor's Expanding Minds Lecture Series.

## SCIENTIFIC ILLUSTRATIONS

### PUBLISHED SCIENTIFIC ILLUSTRATIONS

1. Gunnels CW (2011) Mitosis & Cell Division. In Laboratory Activities for General Biology I. Second Edition. editors: Cross R, and B. Jackson, Bluedoor Publishing, Eden Prairie, MN 2011. Pp 99 – 110.
2. Gunnels CW (2011) Meiosis. In Laboratory Activities for General Biology I. Second Edition. editors: Cross R, and B. Jackson, Bluedoor Publishing, Eden Prairie, MN 2011. Pp 111 – 124.
3. Gunnels CW (2011) "Bacterial resistance to ampicillin through transformation." In Laboratory Activities for General Biology I. Second Edition. editors: Cross R, and B. Jackson, Bluedoor Publishing, Eden Prairie, MN Pp 125-132.
4. Gunnels CW, Dubrovsky A<sup>^</sup>, Avalos A<sup>^</sup> (2008) Social interactions as an ecological constraint in a eusocial insect. *Animal Behaviour* 72(2) 681-691, DOI: 10.1016/j.anbehav.2007.07.022
5. Gunnels CW (2007) Seasonally variable eusocially selected traits in eusocial paper wasp, *Mischocyttarus mexicanus*? *Ethology* 113 (7) 648-660

### PUBLISHED PHOTOGRAPHS

1. Gunnels CW (2002) Pronghorn buck (*Antilocapra americana*) at Antelope Island State Park in the Great Salt Lake, Utah, USA, *Natural Areas Journal* 22(4) cover photograph

### EDUCATIONAL SCIENTIFIC ILLUSTRATIONS

I have created 200+ scientific illustrations for use in major and non-major Biology courses.

### EDUCATIONAL SCIENTIFIC ANIMATIONS

I have created 20+ scientific animations for use in major and non-major Biology courses.

## SELECTED PRESENTATIONS & PUBLICATIONS

### SCHOLARSHIP OF TEACHING AND LEARNING PRESENTATIONS:

1. Tullo K, Jeffreys-Heil R, Carlin A, Petersen D, Gunnels CW (2018) Discipline Specific Writing Guides. 2018 Lucas Symposium, Creative Strategies for Teaching for Critical Thinking, Fort Myers, FL
2. Carlin A, Gunnels CW, Reuter P, Savarese M, Brown T, Culbertson C, Colding L, Jeffreys-Heil R, Keller S, Lura D, Szecsi T, Tullo K, & Yazici H (2017) Scaffolding Scholarly Experiences throughout the Undergraduate Curriculum. Undergraduate Research Program Director: Undergraduate Research Collaborations Conference, Flagstaff, AZ.
3. Rhodes L, Zager MA, Gunnels CW, Jackson B (2017) SOARing Eagles (Student Opportunities for Authentic Research), Association of Southeastern Biologists.
4. Carlin A & Gunnels CW. (2017) Over-canvassed or Built for Speed? Assessment of Information Literacy, Writing, and Critical Thinking by Faculty from Across Campus. Association of College & Research Libraries Conference.
5. Abercrombie MI, Byrne-Bailey K, Creagan N, Croshaw DA, Cross RE, Demers NE, Evers C, Frost L, Goebel A, Gunnels CW, Herman J, Holtzclaw R, Kakareka J, Komisar S, Lefevre K, Leone K, MacDonald JH, McConnell V, Phillips J, Pires R, Savarese M, Skala-Acosta H, Thomas B, Thomas S, Tolley SG, Urakawa H, Urakawa H, Voytek M (2017) Cross-curricular integration of the Florida Gulf Coast University campus as a “living classroom”. 2017 Charlotte Harbor Watershed Summit: Our Vision in Action. Punta Gorda, Florida.
6. Gunnels CW, Byrne-Bailey K, Croshaw D, Cross R, Cruz-Alvarez M, DeJarnette J, Demers N, El-Hefnawy T, Erdman R, Goebel A, Goulet-Miller F, Herman J, Humphries J, Lee K, Mujtabe M, Nicolas A, Palmtag M, Renk C, Rhodes L, Rosenthal M, Sander W, Schultz D, Ueda T, Jackson B (2016) Integrating Research into the Curriculum. Second Southeast Regional PULSE Institute, Wofford College, SC.
7. Carlin A & Gunnels CW (2016) This is an Intervention! Using a Campus-Wide Initiative and Assessment to Transform the Information Literacy Program. LOEX (Library Orientation Exchange), Pittsburg, PA
8. Crone-Romanovski M, Yazici HJ, Rubin R, & Gunnels CW (2015) FGCUScholars: Using Undergraduate Research as a Tool to Enhance Student Writing, Critical Thinking, and Information Literacy. Florida Statewide Symposium: Engagement in Undergraduate Research
9. Gunnels CW, Bovard B, Buzasi D, Cassani MK, Douglass J, Everham EM, Hartley A, Herman J, Mujtaba M, Muller J, Nelson K, Nicolas A, Southard L, Thomas S, Demers N (2015) Engaging Students in Ethical Considerations of the Scientific Process Using a Simulated Funding Panel. Undergraduate Research Programs Conference: Building, Enhancing, and Sustaining. Norman, OK (Poster)
10. Everham EM, Allman P, Bovard B, Brown G, Cassani MK, Ceilley DW, Charmatz K, Croshaw D, Demers N, Davis S, Forest M, Gunnels CW, Herman J, Jackson J, Kakareka J, MacDonald J, Muller J, Sanders W, Thomas S, Tolley SG, Urakawa T, Wilkinson A, Wilkinson N, & Wohlpart S. (2015) Ecological State of the Florida Gulf Coast University Campus 1994-2015. League of Environmental Educators of Florida. Archbold Biological Station, Florida.
11. Everham EM, Allman P, Bovard B, Brown G, Cassani MK, Ceilley DW, Charmatz K, Croshaw D, Demers N, Forest M, Green D, Gunnels CW, Herman J, Jackson J, Kakareka J, MacDonald J, Muller J, Sanders W, Thomas S, Tolley SG, Wilkinson A, Wilkinson N, & Wohlpart S. (2014) Ecological State of the Florida Gulf Coast University Campus 1994-2014. 2014 Charlotte Harbor Watershed Summit: Our Vision in Action. Punta Gorda, Florida.
12. Rhea J, Davis S, Green D, Gunnels CW, Pires R, & Everham EM (2014) Florida Gulf Coast University Service Learning: Facilitating Undergraduate Environmental Community Projects in Southwest Florida. 2014 Charlotte Harbor Watershed Summit: Our Vision in Action. Punta Gorda, Florida.
13. Gunnels CW, Everham EM, Thomas S, Bovard B, Demers N, & Loh AN (2013) Class-Directed Undergraduate Research Maintains Universal Experience for all Science Graduates. Pre-ISSOTL Conference CUR Symposium. Raleigh, NC (Poster)
14. Gunnels CW, Mujtaba M, Everham EM, Bovard B, Cassani MK, Demers N, Douglas J, Fugate D, Green D, Griffis J, Hartley A, Herman J, Muller JA, Rumbold D, Thomas S, & Voley A (2013) Funding Panel Simulation in The Scientific Process course. Pre-ISSOTL Conference CUR Symposium. Raleigh, NC (Poster)

15. Gunnels CW, Bovard B, Demers N, Everham W, & Loh AN (2011) Preservation of undergraduate research through the creation of senior research classes at Florida Gulf Coast University. Florida Statewide Symposium: Engagement in Undergraduate Research, Orlando, FL.
16. Gunnels CW & Demers NE (2010) Integrative teaching in a large enrollment section of introductory biology. School Science and Mathematics Association Meeting, Fort Myers, FL
17. Gunnels CW (2010) Creating and using scientific illustrations and animations to enhance biology education. School Science and Mathematics Association Meeting, Fort Myers, FL
18. Demers NE, Gunnels CW, & Salapska-Gelleri J (2009) Integrative Teaching to Develop SCALE-UP (Student Centered Activities for Large Enrollment Undergraduate Programs) in General Biology I. Transforming Undergraduate Education in Biology, Washington, DC (Poster)

#### ACADEMIC PRESENTATIONS:

1. \* Gunnels CW, Chomey A, Hughes N, & Baker J (2017) Effect of Animal Views on Environmental Attitudes and Conservation Habits: Using cloud-sourced experiments to examine inconsistent influences of bias and evidence, Università degli Studi di Macerata.
2. \* Gunnels CW and Foote N (2017) Historical Zoological Examination of the Galapagos Islands, Università degli Studi di Macerata.
3. Nicola F and Gunnels CW (2017) Trade and Economic Development in the Galapagos Islands 1830-1900. Paper prepared for Appalachian Spring 12th Annual Conference on World History and Economics, March 31-April 2, 2017.
4. Chomey A, Hughes N, Baker J, & Gunnels CW (2016) Conflicting Influences of Animal Views and Evidence on Environmental Attitudes and Conservation Habits, Making Sense of the Animal – Human Bond and Relationship(s), Oxford, UK
5. Foote N & Gunnels CW (2016) Zoology and Cultural History in the Galapagos Islands: A Methodological Reflection, American Society for Environmental History, Seattle, WA
6. Arico Q, Storale B, Klump K, Pinterich M, Urakawa H, Herman JE, & Gunnels CW (2016). The relationship between diatoms, chlorophyll, and water chemistry of storm water retention ponds at Florida Gulf Coast University. Southwest Florida Water Resources Conference. January 15, 2016. Fort Myers, Florida.
7. Foote N & Gunnels CW (2015) Zoology and Cultural History in the Galapagos Islands: A Methodological Reflection, Science and Culture in Latin America: Transmission, Circulation, Exchange, Trinity College, University of Oxford, UK.
8. \* Gunnels CW, Chomey A, Nicola F (2014) Multidisciplinary Anthrozoology: Exploring Animals from Science to History, University of Pennsylvania.
9. \* Foote N & Gunnels CW (2014) Historical Zoology: Development of a Novel Multidisciplinary Approach to Study the History and Biology of Human-Animal Interactions, The Humane University: Incorporating Animal Issues and Humane Education in Academic Institutions, Florida Gulf Coast University and the Humane Society of the United States
10. Chomey A & Gunnels CW (2013) The Effect of Anthropomorphism on Ecological Perspective and Environmental Habits, Animal Behavior Society, Boulder, CO.
11. Dutcher K, Codes A, Gunnels CW (2011) Child behavioral patterns that trigger shelter canine bites. International Society for Anthrozoology Meeting, Human-Animal Interactions: Challenges and Rewards, Indianapolis, IN.
12. Dutcher K, Codes A, Gunnels CW (2011) Child Behavioral Patterns that Trigger Shelter Canine Bites. Association of Professional Humane Educators, Fort Myers, FL
13. Gunnels CW, Kneba EJ, Metcalfe J, Pruitt J, & Jones S (2010) Cooperation and Conflict in Bidirectional Parental Care Within the Eusocial Paper Wasp, *Mischocyttarus mexicanus*. The 93<sup>rd</sup> Annual Meeting of the Florida Entomological Society, Jupiter Beach, FL
14. Crosbie V, Schmidt A, DeJarnette J, & Gunnels CW (2010) The Effects of Bidirectional Care on the Endobiotic Community in the Paper Wasp, *Mischocyttarus mexicanus*. Association of Southeastern Biologist Annual Meeting 2010, Asheville, NC (Poster)



15. Golden C<sup>^</sup>, Nardiello G<sup>^</sup>, Schmidt A<sup>^</sup>, Crosbie V<sup>^</sup>, Cavanaugh D<sup>^</sup>, Lahey Z<sup>^</sup>, Mitterko B<sup>^</sup>, Campbell S<sup>^</sup>, Diss H<sup>^</sup>, Kneba E<sup>^</sup>, Metcalf J<sup>^</sup>, Pruitt J<sup>^</sup>, Jones S<sup>^</sup>, Renfranz J<sup>^</sup>, Harpin J<sup>^</sup>, & Gunnels CW (2009) Animal Behavior in the Estero Bay Watershed. 2009 Estero Bay Watershed Public Symposium (Poster)
16. Metcalfe J<sup>^</sup>, Pruitt, J. <sup>^</sup>, Kneba, EJ <sup>^</sup>, & Gunnels CW (2009) Healthy *Mischocyttarus mexicanus* larvae are more helpful. 6<sup>th</sup> Annual Southeastern Ecology & Evolution Conference, Gainesville, FL (Poster)
17. Kneba EJ<sup>^</sup>, Metcalfe J<sup>^</sup>, Pruitt J<sup>^</sup>, & Gunnels CW (2009) What does the Behavior of *Mischocyttarus mexicanus* Larva tell us about a Larva's Willingness to Feed Adult Wasps? 6<sup>th</sup> Annual Southeastern Ecology & Evolution Conference, Gainesville, FL
18. \*Gunnels CW (2006) What are Castes to a Reproductively Flexible Paper Wasp? International Union for the Study of Social Insects, International Congress, Washington, DC
19. \*Gunnels CW (2005) Can Reproductive Skew Theory be Synthesized? Experimental Evidence from the Flexible Paper Wasp *Mischocyttarus mexicanus* (Vespidae: Hymenoptera). Cambridge University, Department of Zoology
20. Gunnels CW (2005) Can Reproductive Skew Theory be Synthesized? Experimental Evidence from *Mischocyttarus mexicanus* (Vespidae: Hymenoptera). Animal Behavior Society (Allee Competition) Snowbird, UT
21. Gunnels CW, Patel S<sup>^</sup>, & Stewart L<sup>^</sup> (2005) Effect of Reproductive Pptions, Relatedness, and Individual Differences on the Reproductive Skew between *Mischocyttarus mexicanus* females. International Conference of Ethologist. Budapest, HU

#### WORKSHOPS:

1. Olsen E, Fohs W & Gunnels CW (2011 – 2014) Science and Religion. Institute for Evolving Spirituality. Lamb of God Church.

#### EDUCATIONAL PUBLICATIONS:

1. Palmtag M, Goulet-Miller F, Gunnels CW (2012) "Descent with modification and natural selection simulation" In Laboratory Activities for General Biology I. 3<sup>rd</sup> Edition. Editors: Cross R, and B. Jackson, Bluedoor Publishing, Eden Prairie, MN, 153-158.
2. Gunnels CW (2011) "Bacterial resistance to ampicillin through transformation." In Laboratory Activities for General Biology I. 3<sup>rd</sup> Edition. Editors: Cross R, and B. Jackson, Bluedoor Publishing, Eden Prairie, MN, 125-132.

#### MANUSCRIPTS AND BOOK CHAPTERS:

1. Carlin A & Gunnels CW (in press) This is an Intervention! Using a Campus-Wide Initiative and Assessment to Transform the Information Literacy Program. *LOEX Proceedings*
2. Richards T<sup>^</sup>, Wagener M & Gunnels CW (submitted) Social networks among captive adolescent male giraffes (*Giraffa camelopardalis*). *Journal of Zoo and Aquarium Research*
3. Chomey A, De Welde K, & Gunnels CW (submitted) Pets as an Under-Recognized Bridge to Nature. The Humane Animal, editors: Sean Kelly & Bernie Unti, University of Missouri Press.
4. Gunnels CW (2017) Lessons Learned: My UPRD Conference: Volume I. *Undergraduate Research Program Director, NewsBriefs* 6(2) 2-3.
5. Gunnels CW, Bovard B, Buzasi D, Cassani MK, Douglass J, Everham EM, Hartley A, Herman J, Mujtaba M, Muller J, Nelson K<sup>^</sup>, Nicolas A, Southard L, Thomas S, & Demers NE (2015) Engaging Students in Ethical Considerations of the Scientific Process through a Simulated Funding Panel. *Council on Undergraduate Research Quarterly* 36(1) 12-18.
6. Foote N & Gunnels CW (2015) Exploring Early Human-Animal Encounters in the Galapagos Islands Using a Historical Zoology Approach, in *The Historical Animal*, editor: Susan Nance, Syracuse University Press, 203-220.
7. Lahey Z<sup>^</sup> & Gunnels CW (2013) Effects of Native Landscaping using *Sabal palmetto* on Urban Arthropod Biodiversity. *Florida Scientist* 76(3/4) 363-377.

8. Everham EM, Ceilley DW, Croshaw DA, Firth J<sup>^</sup>, Gunnels CW, Hanson DD, Mariolan S<sup>^</sup>, Spear RJ<sup>^</sup>, Thomas B, Van Norman DE<sup>^</sup>, Whitmore BM<sup>^</sup>, & Cassani JR (2013) Ten years of the Southwest Florida Frog Monitoring Network: Natural Cycles and Human-Driven Changes. *Florida Scientist* 76(2) 138-149.
9. Gunnels CW, Dubrovsky A<sup>^</sup>, & Avalos A<sup>^</sup> (2008) Social Interactions as an Ecological Constraint in a Eusocial Insect. *Animal Behaviour* 72(2) 681-691, DOI: 10.1016/j.anbehav.2007.07.022
10. Gunnels CW (2007) Seasonally Variable Eusocially Selected Traits in Eusocial Paper Wasp, *Mischocyttarus mexicanus*? *Ethology* 113(7) 648-660.

<sup>^</sup> = undergraduate co-authors

\* Invited talk

