

# KIMBERLY M. ANDREWS

*curriculum vitae*



University of Georgia Marine Extension and Georgia Sea Grant

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<https://coastalecologylab.wixsite.com/gacoast>

<https://www.facebook.com/UGACoastalEcologyLab/>

February 2022

## APPOINTMENTS

FACULTY, COASTAL ECOLOGY SPECIALIST 2020-Present

*Marine Extension and Georgia Sea Grant, University of Georgia, Brunswick, GA*

Affiliate Faculty, River Basin Center (2017)

Affiliate Faculty, UGA Marine Institute on Sapelo Island (2017)

Affiliate Faculty, Sustainability Certificate Program (2019)

## EDUCATION

**Ph.D. Ecology** – University of Georgia 2010

*Advisor: J. Whitfield Gibbons*

**M.S. Conservation Ecology and Sustainable Development** – University of Georgia 2004

*Advisor: J. Whitfield Gibbons*

**B.S. Ecology** – University of Georgia 1999

*Advisors: Frank B. Golley and James I. Richardson*

## PROFESSIONAL OBJECTIVES

To contribute to the conservation and awareness of ecological systems via:

1. **field research** on the health of coastal habitats and their resident human and wildlife communities, with focus on the influences of human activity and climate change;
2. **conflict resolution** of wildlife resource needs and human activities, with particular interest in the alleviating the persecution of venomous snakes and crocodilians;
3. **community engagement and translational ecology** programs and communication strategies to promote an appreciation of ecology and to understand options for healthy lifestyles and food consumption;
4. **infrastructure design and planning** to reduce and mitigate effects of roads and development on ecological systems;
5. **human dimensions research** on the effectiveness of communication strategies and how to influence behavioral change to support environmental conservation;
6. **training and professional development** of youth and young professionals on novel, integrated approaches for science, applied management and conservation, and scientific communication.

### COASTAL ECOLOGY LAB THEMES

- Habitat and wildlife surveys and monitoring in both protected and altered landscapes
- Analysis of wildlife health, habitat use, and spatial ecology relative to land-use patterns
- Mitigation practices for infrastructure development and industrial activity
- Transportation ecology and the reduction of infrastructure effects on natural systems and assessing the resiliency of coastal access against sea-level rise and storm events
- Novel application of technological equipment (e.g., drones, time-lapse photography, wildlife loggers) for ecological research and monitoring
- Development and demonstration of safe handling protocols and wildlife awareness programs for venomous snakes, alligators, biting/stinging insects, and poisonous plants
- Translational ecology and community engagement on matters of local environmental health and coastal resiliency
- Design and presentation of outreach and education programs for public and professional audiences of all ages

Active Field Research Projects highlighted in Appendix (pg. 29)

### PREVIOUS PROFESSIONAL EXPERIENCE

FACULTY, ASSISTANT RESEARCH SCIENTIST 2012-2020

*Odum School of Ecology, University of Georgia, Athens, GA*

- Founder and Faculty Director of Applied Wildlife Conservation Lab research and education program (rebranded to Coastal Ecology Lab in 2020)
- Grant acquisition, task execution, budget management, hiring and personnel management and reporting for lab which is fully supported with extramural funding
- Full lab transfer of all personnel, contracts, and projects to UGA Marine Extension and Georgia Sea Grant occurred May 2020

RESEARCH COORDINATOR 2011-2017

*Georgia Sea Turtle Center, Jekyll Island State Park Authority, Jekyll Island, GA*

- Developed and managed a field-based ecological research department at the Georgia Sea Turtle Center
- Trained graduate and undergraduate students on field methodologies, data collection, management, and analysis, and results dissemination through writing and professional and public communication
- Established opportunities for AmeriCorps service members (12 positions annually) and mentored completion of independent research projects
- Facilitated internship programs through University of Georgia, College of Coastal Georgia, and other partnering academic institutions
- Participated in planning and management processes of Jekyll Island State Park habitats and infrastructure, particularly revitalization program efforts
- Developed and conducted education programming for the general public using experiential techniques in the field, lectures, and tabling formats
- Implemented human dimensions research components to evaluate the effectiveness of education techniques

- Secured funding through grants, fundraising, and revenue-generating education programs to support graduate students and program operations

#### EDUCATION PROGRAM SPECIALIST 2009-2017

*Savannah River Ecology Laboratory, University of Georgia, Aiken, SC*

- Program management of grants, budgets, and personnel
- Public tours and presentation of wildlife conservation
- Presentation and event scheduling for the Outreach and Education program
- Wildlife safety program development and execution including those for alligators and venomous snakes, including LEED certification course for Department of Energy

#### SNAKE DATABASE MANAGER & ANIMAL PROCESSING COORDINATOR 2002-2011

*Savannah River Ecology Laboratory, University of Georgia, Aiken, SC*

- Facilities and protocol management including personnel and data coordination
- Field and husbandry protocol development for handling venomous snakes
- Personnel training on marking techniques and safe handling approaches
- Marking and morphometric data collection for venomous and nonvenomous species

#### GRADUATE RESEARCH ASSISTANT, PH.D. 2004-2010

*Savannah River Ecology Laboratory, University of Georgia, Aiken, SC*

- Movement patterns and survivorship of rattlesnakes in developed areas
- Efficacy of relocation of rattlesnakes as a management tool
- Habitat use and spatial ecology of American alligators in human-made lagoons
- Mapping assessments and habitat protection prioritization for conservation easements

#### DIAMONDBACK TERRAPIN POPULATION SURVEYS 2001-2010

*Savannah River Ecology Laboratory, University of Georgia, Aiken, SC*

- Capture, specimen processing, data entry, and personnel coordination for long-term diamondback terrapin mark-recapture project at Kiawah Island, SC

#### SCIENCE AND EDUCATION DIRECTOR 2007-2009

*Palmetto Bluff Conservancy, Bluffton, SC*

- Developer consultation for reducing human-wildlife conflicts
- Biological research and survey initiatives for vertebrates
- Property owner guidance on living with wildlife
- Education (field tours, lecture series, professional workshops, citizen science, and website)
- Design of nature center interpretive displays
- Development personnel and property security team training on identification, capture, and handling of alligators and venomous snakes
- Scientific Advisory Committee on Water Quality for the Town of Bluffton
- Water quality monitoring (protocols and data management)
- GIS mapping for layout and trail maps for conservation easements

#### GRADUATE RESEARCH ASSISTANT, M.S. 2001-2004

*Savannah River Ecology Laboratory, University of Georgia, Aiken, SC*

- Interspecific behavioral responses of snakes to roads and vehicles
- Persistence of roadkill in relation to traffic density
- Interspecific road-use patterns using a long-term database (50+ years) on snakes from the Savannah River Site

#### HERPETOLOGICAL RESEARCH ASSISTANT 2002-2004

*Savannah River Ecology Laboratory, University of Georgia, Aiken, SC*

- National Park Service surveys (2002-2003) – Field surveys to document biodiversity of reptiles and amphibians in 16 southeastern parks; assisted in specimen collection, museum cataloguing, and data management
- Wetland surveys (2003 – 2004) – Long-term reptile and amphibian surveys of Carolina bays that included project design, daily collecting and identification of regional species, processing specimens, and entering data

## FIELD PROJECT DIRECTOR

2000-2003

*Jumby Bay Hawksbill Marine Turtle Project, Long Island, Antigua, West Indies*

- Population demographics of hawksbill sea turtles including:
  - Saturation tagging of nesting females (Inconel® tagging and carapace drilling)
  - Nest excavations and hatch success calculations
  - Collaborative studies investigating age and population assessment
  - Project coordination with WIDECAST (Wider Caribbean Sea Turtle Organization)
  - Long-term data management and analysis
  - Outreach and marine turtle education for local schools, private landowners, civic groups, and government officials

## FIELD ASSISTANT

2001

*Hawksbill tagging project, Marie-Galante, Guadeloupe, West Indies*

- Mark-recapture (see above techniques) and DNA tissue sampling of hawksbill sea turtles

## LAB TECHNICIAN

2001

*Soil Survey Lab, University of Georgia, Athens, GA*

- pH, PSD, and CEC testing of soil samples

## HERPETOLOGY FIELD TECHNICIAN

2000

*Department of Biology, Purdue University, Henderson, KY*

- Mark-recapture study of watersnake species
- Habitat fragmentation study of federally threatened copperbelly watersnakes using telemetry

## LABORATORY ASSISTANT

1999-2000

*Soil Ecology Lab, Institute of Ecology, University of Georgia, Athens, GA*

- Preparation of leaf samples for carbon and nitrogen testing

## RESEARCH AND EDUCATION INTERNSHIP

1999

*Finca La Flor, Costa Rica, Central America*

- Implemented a reforestation project at an environmental school/organic farm
- Performed vegetation mapping and statistical analysis of successional plots
- Investigated growth responses of transplanted seeds and seedlings in plots

**RECENT LEADERSHIP AND PROFESSIONAL DEVELOPMENT**

- Georgia Department of Transportation: Planning Development Process (required certification to be a Pre-Qualified Consultant)
- Certificate in Diversity and Inclusion (UGA, *in progress*). 2021-Present
  - Diversity at UGA: Beyond the Numbers
- UGA Wellbeing: Mental Health First Aid at Work. 2021

- Public Service and Outreach Professional Development Workshops. 2021
  - Corporate Funding
  - Getting the Most out of Zooms and Microsoft Teams
- Public Service and Outreach Evaluation Certification. 2020-2021
- UGA Mentorship Faculty Learning Community (Mentorship Meet-Up). 2019-Present Invited member on the committee to increase the effectiveness of mentoring and instruction through dialogue and resource compilation, UGA Mentor Program.
- UGA Faculty Learning Series. 2019-Present. Faculty Affairs.
  - Managing Your Time Not Your Energy
  - Connecting in the Time of Corona: Techniques to Listen and Be Heard
  - Feedback: A Tool for Supervisors
  - Maintaining Effective Communication in Mentoring
  - Strategies and Tools for Aligning Expectations of Mentors and Mentees
  - Effective Assessment of Student Learning Outcomes – When and How to Close the Loop
  - Telling Your Research Story to Advance Your Project
  - Leadership Workshop: Handling Conflict
  - Mentoring Across Cultural Differences Using the RISE Model
  - Design Thinking
  - Difficult Dialogues: Strategies for Making Connections and Setting Boundaries
  - Dealing with Difficult People
  - Rediscover Your Inspiration and Your Strengths
- UGA Professional Development Book Club. 2019-Present. Faculty Affairs.
- UGA Mentor Skills Webinar: Strategies to Support Students through Crises. 2020
- ESRI Certifications – MOOC (Massive Open Online Course)
  - Imagery in Action. 2021
  - Cartography. 2020
  - Spatial Data Science: The New Frontiers in Analytics. 2020.
  - Do-It-Yourself Geo Apps. 2019
  - Going Places with Spatial Analysis. 2019
- UGA Summer Leadership Institute. 2019. Faculty Affairs
- UGA Mentorship program. Spring 2019. Paired mentor-protégés, EITS (Enterprise Information Technology Services)
- UGA Service Learning Workshop: Working Effectively with Community Partners. 2019

<b>COLLEGE TEACHING AND MENTORING EXPERIENCE</b>
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**ADVISING AND MENTORING**

- *M.S. Graduate Student, Major advisor*
  - Lance M. Paden – Conservation Ecology and Sustainable Development – University of Georgia, Odum School of Ecology. 2015-2018
  - Kathryn A. Mascovich – Ecology, University of Georgia, Odum School of Ecology. 2015-2018
  - Joseph E. Colbert, III, Pat Tillman Military Fellow – Ecology, University of Georgia, Odum School of Ecology. 2014-2016
  - Gregory M. Skupien – Conservation Ecology and Sustainable Development, University of Georgia, Odum School of Ecology. 2012-2015
- *Ph.D. Graduate Student, Committee Member*
  - Sean P. Boyle – Boreal Ecology, Laurentian University, 2019 [external defense reviewer]

- Darren J. Fraser, Wormsloe Fellow – Ecology, University of Georgia, Odum School of Ecology. 2015-Present
- *M.S. Graduate Student, Committee Member*
  - Grace Anne Ingham – Environmental Economics and Management, University of Georgia, Geography Department. 2021-Present
  - Kristen Zemaitis – Ecology, University of Georgia, Odum School of Ecology. 2018-Present
  - Kelly Robinson – Conservation Ecology and Sustainable Development, University of Georgia, Odum School of Ecology. 2012-2014
- *M. S. Graduate Student, Mentor and contributed support for Research Assistantship*
  - Bess B. Harris – University of Georgia, Warnell School of Forestry and Natural Resources, Wildlife. Fall 2011-2014
- *Internships and Directed Studies:*
  - *Undergraduate Interns* – 2011-Present
    - Intern, Independent Study, and Senior Thesis courses (College of Coastal Georgia). 2014-Present
    - Mentor 2-5 summer interns from various US institutions on independent research projects. 2013-Present
  - *AmeriCorps Member Supervisor* – Developed independent scientific project with 12 Members annually. 2011-2017
  - *NSF STEM* – Mentored two senior biology students (USC – Columbia). 2010
  - *SC Governor's School* – Mentored student research project. 2007
  - Designed and conducted two directed courses on herpetology (UGA). 2006
    - ECOL 3900 – Directed Reading in Reptile Biology
    - ECOL 4940 – Field Techniques in Herpetology

#### LECTURE AND INSTRUCTION

- *Departmental Seminars (invited):*
  - Emory Rollins School of Public Health Graduate Seminar. 2020.
  - Valdosta State Biology Department. 2020
  - Graduate Student Invited Speaker, University of Memphis Biology Department. 2019
- *Graduate Classes and Seminars:*
  - ECOL 8400: Conservation Ecology and Sustainable Development Seminar (UGA). 2011-2018
  - Conservation of Amphibians and Reptiles Class (Grad. and Undergrad.; UFL). 2012
- *Undergraduate Classes and Seminars:*
  - Biology 2990: Honors Seminar (pre-med; UGA). 2007-2020
  - ECOL 3520: Applied Field Ecology at the Center for Research and Education at Wormsloe. Designed Maymester course.
  - BIOL 3720L: Animal Behavior Lab in Costa Rica. Lead instructor and designed course. Fall 2018
  - ECOL 3300: Problem Solving in Ecology field course module (UGA). 2016-2018
  - Conservation Ecology invited lecturer; also mentored graduate students to teach college curriculum (College of Coastal Georgia). 2014-Present
  - Field modules for Coastal Ecology and Biology students (College of Coastal Georgia). 2013-Present
  - MARS 4500/BIOL 4960: Field Study in Oceanography and Marine Methods field course module on Jekyll Island (UGA/UGAMI). 2017.
  - Field module on urban herpetology (Emory College). 2012-2017
  - UGA Ecology 3500 Lab Instructor – Ecology Lab. 2005
  - Conservation Biology class (Davidson College) invited lecturer. 2004

- Instructor in Ecology and English at Finca La Flor, Costa Rica using field and classroom settings for children and adults. 1999

#### PROFESSIONAL TRAINING & INSTRUCTION

- *Infrastructure Design and Planning:*
  - **Andrews, K. M.**, F. M. Shilling, C. Goodson, C. Choo, and K. Nesbitt. 2021. *Are we all in the same boat? Involving communities in solving coastal infrastructure flooding and resilience*. 20 July 2021.
  - Smith, J. D., F. M. Shilling, S. Handy, and **K. M. Andrews**. 2020. *What role does ecology have in sustainable transportation?* Transportation Research Board, Webinar. 29 April 2020.
  - Shilling, F. M., **K. M. Andrews**, W. Collinson-Jonker, and J. Kintsch. 2019. *Assessing and adapting infrastructure in shoreline habitats undergoing rapid changes: New challenges, new technologies, and opportunities for new partnerships*. Transportation Ecology Pre-Conference Workshop, International Conference on Ecology and Transportation, Sacramento, CA. 22 September 2019.
  - Shilling, F. M., **K. M. Andrews**, J. MacKinnon, and J. Vandever. *Adapting Shoreline Infrastructure to Sea Level Rise and Extreme Events*. Transportation Research Board, Webinar. 6 February 2019.
- *Wildlife Safety Training:*
  - Wildlife identification and response training for MSHA certification for Southern Ionics, LLC new hires
  - Venomous snake handling – protocol development and personnel training for SREL, Palmetto Bluff Conservancy, Jekyll Island Authority, and University of Georgia
  - Staff training for new hires at Jekyll Island Authority
  - Wildlife safety training - program and material development and implementation for Savannah River Site (SRS) personnel; selected safety materials remain available on the SREL website
  - LEED Certification Instructor – SRS MOX environmental designs. 2010
  - EnviroVet Wildlife Veterinary Course Instructor – Field techniques. 2008-2010
- *Outreach:*
  - On-going outreach efforts for employers, partners, and civic groups.
    - Develop and deliver classroom and field teaching modules based on state curricula
    - Answer environmental questions submitted by general public
  - Savannah River Ecology Lab Outreach Program. 2002-2018
    - Presentations to schools (grade and college levels) and civic groups
    - Teacher training workshops on state standard curricula
    - Safety and environmental awareness training to SRS employees
    - Public tours of SREL research programs and SRS wildlife to SRS visitors
  - Ecoreach-Institute of Ecology (UGA). 2001-2004
  - SPARC (Student Partners for Amphibian and Reptile Conservation). 2003
    - Field trips for elementary schools.
  - Outreach of conservation of marine systems in Antigua, West Indies. 2000-2002
    - Taught lectures on marine conservation to students of all ages
    - Coordinated and conducted beach tours and presentations to citizen groups, residents, and resort visitors

#### COMMUNITY SERVICE

(ongoing activities)

- Develop materials and create awareness of risk of exposure to contaminants in seafood  
**Andrews, K. M.**, and D. Dollar-Carter. 2020. Pride in Glynn County Seafood Cookbook (version 2).  
**Andrews, K. M.**, and D. Dollar-Carter. 2019. Pride in Glynn County Seafood Cookbook (version 1).
- Design and execute education programs to increase exposure about local wildlife diversity
- Design and implement wildlife awareness campaigns for residents and visitors to reduce conflict with wildlife while staying safe
- Community and visitor engagement in wildlife conservation through community science, volunteer opportunities, experiential field programs, and healthy stewardship behaviors
- Conduct training sessions for staff, residents, and tourists on American alligators, venomous snakes, biting and stinging insects, and poisonous plants

### PROFESSIONAL COMMITTEES

TRANSPORTATION RESEARCH BOARD AEP70 RESEARCH COMMITTEES 2021-Present  
*Environmental Analysis and Ecology Standing Committee*

- Lead special research topic committees to recommend directives for national funding
- Co-chair two committees: Climate Change, Equity

MARINE EXTENSION AND GEORGIA SEA GRANT COMMITTEES 2020-Present  
*Budget Committee* – Review and assessment of cost-reduction measures and opportunities for revenue advancement. 2020-Present

*Annual Meeting Planning Committee* – Develop and implement plan for the annual unit meeting for Marine Extension and Georgia Sea Grant. 2021-2022

*Research Symposium Planning Committee* – Strategic planning by internal and external collaborators of the annual research symposium hosted by Georgia Sea Grant. 2020-2021

*Resiliency Team* – Internal meetings geared to aligning Marine Extension and Georgia Sea Grant efforts on resiliency at local, state, regional, and national levels.

*Synergy Team* – Internal meetings for brainstorming and idea sharing on expertise, program needs, and collaboration opportunities. 2020-Present

SOUTHEASTERN ENVIRONMENTAL TRANSPORTATION CONFERENCE COMMITTEE  
*Planning group to design and initiate regional transportation conference* 2020-Present

OKEFENOKEE SWAMP COMMITTEES 2020-Present  
*Waycross, GA*

*Alligator Advisory Committee* – Advise activities on research, management, and conservation efforts on American alligators in the Okefenokee Swamp. 2021-Present

*Education Committee* – Plan and align with education opportunities for public and student audiences in southeast Georgia. 2020-Present

*Strategic Planning Committee* – Assist with the transition through lease acquisition and restructuring. 2020-2021

PLATO NEGRO ECOLOGY AND CONSERVATION GROUP 2020-Present  
Osa Peninsula, Costa Rica

- To better understand the ecology, distribution, and population trend of the black-headed bushmaster (*Lachesis melanocephala*) and to secure its preservation through ex situ conservation
- Assist with research design, data analysis, publication development, and funding cultivation

## ENVIRONMENTAL JUSTICE ADVISORY BOARD 2019-Present

*Rebuilding Together, Brunswick, GA*

- Co-teaches an Environmental Justice Academy - inaugural in 2020; is offered annually
- Develops and distributes resources on environmental health risk to the local community
- Hosts community events and youth programs for skill development
- Chair, Grants and Fundraising Committee

INTERNATIONAL CONFERENCE ON ECOLOGY AND TRANSPORTATION (ICOET)  
STEERING COMMITTEE & PROGRAM COMMITTEE 2019-Present*University of California – Davis Road Ecology Center*

- Elected Chair of Program Committee for 2023 meeting
- Develops meeting themes
- Plans agenda and develops the program for the bi-annual conference
- Reviews abstracts and communicates with authors
- Recruits partners and sponsors

## TRANSPORTATION RESEARCH BOARD 2016-Present

*Washington, D.C.*

- National Academies of Science, Engineering, and Medicine
- Advisory group to Congress on research priorities in the field of transportation ecology
- Invited Member AEP70 – Environmental Analysis and Ecology. 2020-Present
- Invited Member: ADC30 – Ecology and Transportation Committee. 2016-2020
- Member: ANB20 – Animal-Vehicle Conflict Subcommittee

## OSA RESEARCH ASSOCIATION BOARD 2016-Present

*Osa Peninsula, Costa Rica*

- Develop research directives and terrestrial and in-water sampling protocols for reptiles and large, aquatic vertebrates
- Coordinate partnerships for research projects in remote and semi-urban habitats
- Facilitate local citizen and volunteer engagement in wildlife conservation

## ROADS TASK FORCE, National Chair and Founder 2006-Present

*PARC (Partners in Amphibian and Reptile Conservation)*

- Task team leader for Southeast PARC
- Increase communication between scientists, government, and planners
- Synthesize information on ecological effects and agency structure
- Target priority species and habitat for research and preservation
- Focus on solution-driven and product-oriented approaches

## PHYSICAL ENVIRONMENT AND INFRASTRUCTURE COMMITTEE 2020-2021

*Forward Brunswick, Brunswick, GA*EASTERN DIAMONDBACK RATTLESNAKE CONSERVATION ACTION PLAN  
COMMITTEE 2012-2020*The Orianne Society*

- Assist with range-wide Conservation Action Plan for species
- Committee review of existing data on current status assessment and listing recommendations

CONSERVATION ECOLOGY AND SUSTAINABLE DEVELOPMENT (CESD) STEERING  
COMMITTEE 2014-2018

*Odum School of Ecology, University of Georgia*

- Assess curriculum and other requirements of the CESD Master's degree program
- Design and implement program tracks

## ISLAND MANAGERS

2015-2017

*Coastal Georgia consortium of island and coastal managers*

- Information sharing and priority needs assessment of coastal management issues and research

## LITTLE CUMBERLAND ISLAND (LCI) CARETTA FOUNDATION BOARD

2015-2017

- Assist with management and conservation planning for LCI sea turtle and wildlife projects

## JEKYLL ISLAND AUTHORITY COMMITTEES

2010-2017

- *Research Advisory Committee* – Develop and implement research policies and reviews project proposals for ecological research on Jekyll Island. 2015-2017
- *Graffiti Group* – Jekyll Island Authority think tank to develop differentiated programs, marketing, and development schemes. 2015-2017
- *Key Influencers* – Advisory group to the Executive Director of JIA. 2014-2017
- *Deer Management Committee* – Management options, research priorities, and deer sampling protocol. 2013-2017
- *Environmental Approval Process Committee* – Review design plans for all development and provide recommendations on sustainable design features and landscape placement. 2012-2017
- *Master Plan Steering Committee* – Guide stakeholder groups and review task force decisions in developing the Master Plan. 2012-2017
- *Leadership Committee* – Management directions, priorities, and implementation procedures. 2012-2017
- *Conservation Committee* – Develop the Jekyll Island Conservation Plan and assist with the implementation of Plan objectives in addition to reviewing various conservation decisions on the Island, including hiring key personnel. 2010-2017

## GEORGIA SEA GRANT STRATEGIC PLANNING RETREAT

2016

*Marine Extension, University of Georgia*

- Identified current threats, conservation pressures, and research priorities in coastal systems

## CAROLINAS AND COASTAL GEORGIA PUBLIC LANDS AT-RISK SPECIES

2016

*United States Fish and Wildlife Service*

- Status updates for all federally listed, petitioned, and plant and animal species of concern
- Recommendations for research and management actions

## GEORGIA COASTAL RESEARCH COUNCIL

2015-2016

*School of Marine Programs, University of Georgia*

- Mechanisms for improved scientific exchange between coastal scientists and decision makers
- Incorporated best-available scientific information into state and local resource management

## GEORGIA DEPARTMENT OF NATURAL RESOURCES, STATE WILDLIFE ACTION PLAN REVISION

2013

- Invited member
- Reviewed species of state concern, update status and research needs

## SOUTH ATLANTIC LANDSCAPE CONSERVATION COOPERATIVE

2013

*United States Fish and Wildlife Service*

- Identified priority locations, establish management and research needs
- Reviewed blueprint for Southern Coastal Plain Ecoregion

UPLAND SNAKE CONSERVATION INITIATIVE, Co-chair

2012

*Gopher Tortoise Council*

- Coordinated annual meetings in conjunction with Gopher Tortoise Council
- Reviewed and engaged priority conservation initiatives
- Facilitated communication among snake biologists, particularly in the southeastern US

SCIENTIFIC ADVISORY COMMITTEE, Spatial and Landscape Ecology

2009-2011

*Jumby Bay Hawksbill Marine Turtle Project, Long Island, Antigua, West Indies*

- Assessed and coordinated research priorities for project
- Consulted with Antiguan government and private landowners on marine conservation issues
- Developed educational materials for various audiences

### GRANTS FUNDED

*\*graduate students, technicians, and \*\*interns under my mentorship*

- **Andrews, K. M.** 2021. *Developing mitigation tools for relocation and reintroduction of species of concern on mining lands in Georgia*. Chemours. Jan. 22 – Dec. 22. (\$322,835)
- **Andrews, K. M.** 2021. *Community engagement and risk reduction initiatives for the LCP site*. Honeywell. Jan. 2022-Dec. 2022. (\$119,001)
- Ferreira, S., J. Gambill, **K. M. Andrews**, J. Tr. Brown, K. Smith, E. Frimpong, M. Madden, and M. Bilske. 2021. *Building resilience to compound environmental risks in disenfranchised communities*. ACRE Interdisciplinary Research Team: Addressing Compound Risks and Exposure (ACRE) to Contamination and Climate Change. Faculty Pre-Seed Grant, University of Georgia. Jan. 2022-Dec. 2022.
- **Andrews, K. M.** 2021. *Community engagement and risk reduction initiatives for the LCP site*. Honeywell. Apr. 2021-Dec. 2021. (\$85,001)
- **Andrews, K. M.** 2021. *Developing mitigation tools for relocation and reintroduction of species of concern on mining lands in Georgia*. Chemours. Mar. 2021-Dec. 2021. (\$324,327)
- **Andrews, K. M.** 2020. *Community engagement and risk reduction initiatives for the LCP site*. Honeywell. Jan. 2021-Dec. 2021. (\$20,948)
- **Andrews, K. M.** 2020. *Study plan for the gopher tortoise use of reclaimed mine lands*. Chemours. Aug. 2020-Dec. 2020. (\$53,072)
- **Andrews, K. M.** 2020. *Developing mitigation tools for relocation and reintroduction of species of concern on mining lands in Georgia*. Chemours. Feb. 2020-Feb. 2021. (\$283,513)
- **Andrews, K. M.** 2019. *Community engagement and risk reduction initiatives for the LCP site*. Honeywell. Oct. 2020-Dec. 2020. (\$24,820)
- **Andrews, K. M.** 2019. *Alligator education and research*. Okefenokee Swamp Park. Sep. 2020-Aug. 2023. (\$79,908)
- **Andrews, K. M.** 2019. *Community engagement and risk reduction initiatives for the LCP site*. Honeywell. Oct. 2019-Sep. 2020. (\$49,263)
- **Andrews, K. M.** 2019. *Developing mitigation tools for relocation and reintroduction of species of concern on mining lands in Georgia*. Southern Ionics, LLC. Feb. 2019-Jan. 2020. (\$290,826).

- Cramer, P., **K. Andrews**, P. Basting, T. Brennan, N. Dodd, L. Frazier, J. Gagnon, J. Kintsch, L. Sielecki, and J. Mills. 2018. *The wildlife vehicle collision (WVC) reduction and habitat connectivity transportation pooled fund project TPF 5(358) to research and report on strategic integration of wildlife mitigation into transportation procedures*. Nevada Department of Transportation. Oct. 2018-Sep. 2021. (\$146,000)
- **Andrews, K. M.** 2018. *Establishing indicator sites and standardized sampling protocols for a long-term state monitoring plan for diamondback terrapins in Georgia*. Diamondback Terrapin Working Group. May 2018-Jun. 2019. (\$1,000)
- **Andrews, K. M.** 2018. *Effective endangered species management and proactive agency compliance for gopher tortoises and indigo snakes*. Georgia Department of Transportation. Apr. 2018-Mar. 2021. (\$181,751)
- **Andrews, K. M.** 2018. *Community engagement and risk reduction initiatives for the LCP site*. Honeywell. Apr. 2018-Mar. 2019. (\$29,412)
- **Andrews, K. M.**, \*O. P. Thompson, and \*A. A. LaVere. 2018. *Burrow banter: social vocalizations in gopher tortoises (Gopherus polyphemus)*. Wildlife Acoustics. Apr. 2018-Mar. 2019. (\$5,000, scientific product grant).
- **Andrews, K. M.** 2018. *Developing mitigation tools for relocation and reintroduction of species of concern on mining lands in Georgia*. Southern Ionics, LLC. Feb. 2018-Jan. 2019. (\$249,015)
- **Andrews, K. M.** and F. M. Shilling. 2018. *Using novel drone and time-lapse photography techniques to monitor coastal infrastructure impacts from hurricanes and tidal surges*. Georgia Sea Grant. Jan. 2018-Dec. 2018. (\$9,648)
- **Andrews, K. M.** 2017. *Alligator education and research*. Okefenokee Swamp Park. Sep. 2017-Aug. 2020. (\$70,500)
- **Andrews, K. M.** and T. D. Tuberville. 2017. *Developing mitigation tools for relocation and reintroduction of species of concern on mining lands in Georgia*. Southern Ionics, LLC. Feb. 2017-Jan. 2018. (\$105,186; contract amendment)
- **Andrews, K. M.** and \*D. M. Zailo. 2017. *Establishing standardized sampling protocols for diamondback terrapins at indicator sites in Georgia*. Wormsloe Institute for Environmental Health. May 2017-Jun. 2017. (\$4,928)
- **Andrews, K. M.**, \*K. M. Parson, and T. M. Norton. 2017. *Assessing the Impacts of Climate Change on the Health, Habitat Quality, and Reproduction of a Federally Petitioned Species in an Urban Environment*. Greenville Zoo Conservation Fund. May 2017-May 2018. (\$3,000)
- **Andrews, K. M.** and T. D. Tuberville. 2017. *Developing mitigation tools for relocation and reintroduction of species of concern on mining lands in Georgia*. Southern Ionics, LLC. Feb. 2017-Jan. 2018. (\$128,071)
- **Andrews, K. M.** and T. D. Tuberville. 2016. *Developing mitigation tools for relocation and reintroduction of species of concern on mining lands in Georgia*. Southern Ionics, LLC. Jan. 2016-Jan. 2017. (\$112,912)
- **Andrews, K. M.**, \*\*K. M. Parson, and T. M. Norton. 2016. *The effects of habitat quality, prey availability, and wildlife health on the reproduction of a declining predator in an urban landscape*. Greenville Zoo Conservation Fund. May 2016-May 2017. (\$1,000)
- **Andrews, K. M.**, \*\*K. M. Parson, and T. M. Norton. 2016. *The effects of habitat quality, prey availability, and wildlife health on the reproduction of a declining predator in an urban landscape*. Riverbanks Zoo Conservation Fund, extended. Mar. 2016-Mar. 2017. (\$5,000)
- **Andrews, K. M.**, \*D. M. Zailo, H. K. Higgins, T. M. Norton, S. M. Kaylor, J. M. Martin, and T. D. Tuberville. 2015. *Nesting turtles in manmade habitats: Innovative approaches to assessing the biological value of managing developed landscapes and engaging the*

- public as a means of mitigation.* Georgia Department of Natural Resources – NOAA Coastal Incentive Grant. Oct. 2015-Sep. 2017, extended. (\$60,704)
- **Andrews, K. M.,** T. M. Norton, and H. K. Higgins. 2015. *Coastal conservation of tropical reptiles.* Disney Conservation Fund, extended. Sep. 2015-Aug. 2016. (\$25,000)
  - **Andrews, K. M.,** and T. D. Tuberville. 2015. *Developing mitigation tools for relocation and reintroduction of species of concern on mining lands in Georgia.* Southern Ionics, LLC. Feb. 2015-Dec. 2015. (\$124,060)
  - **Andrews, K. M.** and \*K. A. Mascovich. 2014. *Creating a model system for sustainable development: Striking a balance between the ecological, economic, and social needs of Jekyll Island State Park.* University of Georgia Marine Extension-NOAA Georgia Sea Grant. Sep. 2014-Jul. 2017, extended. (\$73,795)
  - Norton, T. M., **K. M. Andrews,** and H. K. Higgins. 2014. *Capacity building for marine turtles.* Disney Worldwide Conservation Fund. Sep. 2014-Aug. 2015. (\$25,000)
  - Tuberville, T. D., and **K. M. Andrews.** 2014. *Testing bioclimatic thresholds of reptiles predicted by maximum entropy theory.* Department of Defense ERDC – CERL. Feb. 2014-Aug. 2015. (\$90,734)
  - Norton, T. M., **K. M. Andrews,** J. Wellehan, M. Yabsley, \*\*J. E. Colbert, S. E. Nelson. 2013. *Monitoring health, disease, survivorship and movements of head-started juvenile, rehabilitated adult, and resident adult box turtles (Terrapene carolina) on Jekyll Island, Georgia.* Association of Reptile and Amphibian Veterinarians. Feb. 2013-Feb. 2014. (\$3,000)
  - **Andrews, K. M.,** \*G. M. Skupien, and T. M. Norton. 2012. *Wildlife conservation in coastal landscapes: interfacing biological research and science-based public awareness with priority species of concern.* Georgia Department of Natural Resources – NOAA Coastal Incentive Grant. Nov. 2012-Mar. 2015. (\$55,731)
  - **Andrews, K. M.** and P. Nanjappa. 2012. *Making connections: guiding transportation planning to maximize ecosystem connectivity for small vertebrates.* USDA Forest Service. Dec. 2012-Dec. 2013. (\$20,000)
  - **Andrews, K. M.,** T. M. Norton, and \*\*J. E. Colbert. 2012. *Survivorship and movements of head-started hatchling box turtles (Terrapene carolina) salvaged from displaced and injured females.* The Lucille F. Stickel Award for Box Turtle Conservation. (\$550)
  - **Andrews, K. M.** 2012. *Development of an alligator and wildlife safety training program: Train the trainer.* Clarke Aquatic Services. Jun. 2012-Jun. 2013. (\$9,511)
  - Tuberville, T. D. and **K. M. Andrews.** 2011. *Assessing vulnerability of priority sandhills fauna to climate and landscape changes: application of ranking criteria and sensitivity models to long-term installation management.* Department of Defense ERDC – CERL. Jan. 2011-Jun. 2014. (\$233,229)
  - **Andrews, K. M.,** T. M. Norton, and J. W. Gibbons. 2011. *Spatial demography and animal health of coastal rattlesnakes in fragmenting landscapes: implications for habitat management and species conservation.* Riverbanks Zoo Conservation Fund. Jan. 2012-Dec. 2013. (\$5,000)
  - Gibbons, J. W. and **K. M. Andrews.** 2011. *Savannah River Ecology Laboratory outreach initiatives for the public and Savannah River Site outreach activities.* National Nuclear Security Administration. Dec. 2011-Nov. 2012. (\$270,000)
  - Gibbons, J. W., and **K. M. Andrews.** 2011. *Savannah River Ecology Laboratory outreach initiatives for Savannah River Site employees and regional public education.* National Nuclear Security Administration. Jan. 2011-Jan. 2012. (\$280,000)
  - Gibbons, J. W., and **K. M. Andrews.** 2011. *Savannah River Ecology Laboratory involvement with Savannah River Site Public Tours.* Savannah River Nuclear Solutions. Jan. 2011-Dec. 2011. (\$42,000)

- Gibbons, J. W., and **K. M. Andrews**. 2010. *Savannah River Ecology Laboratory LEED training sessions and video for MOX*. National Nuclear Security Administration. Oct. 2010-Apr. 2011. (\$32,000)
- **Andrews, K. M.** and P. Nanjappa. 2010. *Making connections: guiding transportation planning to maximize ecosystem connectivity for small vertebrates*. USDA Forest Service. Jun. 2010-May 2011. (\$20,000)
- **Andrews, K. M.** and P. Nanjappa. 2010. *Guiding the way: using amphibians and reptiles as models to enhance ecosystem connectivity and transportation planning for small vertebrates*. Friends of PARC. Jul. 2010. (\$2,500)
- **Andrews, K. M.**, and P. Nanjappa. 2010. *Guiding the way: using amphibians and reptiles as models to enhance ecosystem connectivity and transportation planning for small vertebrates*. National Council for Air and Stream Improvement, Inc. Jul. 2010. (\$1,000)
- **Andrews, K. M.**, V. Titus, and J. C. Mitchell. 2009. *Impacts of roads on herpetofauna: ecological effects and potential solutions*. American Society of Ichthyologists and Herpetologists. Jul. 2010. (\$1,000)
- Gibbons, J. W., and **K. M. Andrews**. 2010. *Savannah River Ecology Laboratory LEED training sessions and video for MOX*. National Nuclear Security Administration. May 2010-Apr. 2011. (\$125,000)
- Gibbons, J. W., and **K. M. Andrews**. 2010. *Savannah River Ecology Laboratory involvement with Savannah River Site Public Tours*. Savannah River Nuclear Solutions. Apr. 2010-Dec. 2010. (\$30,400)
- **Andrews, K. M.** 2010. *Wildlife assessment and conflict resolution (rattlesnake and alligator research)*. Palmetto Bluff Conservancy. May 2010-Dec. 2010. (\$5,000)
- **Andrews, K. M.** 2010. *Biodiversity characterizations (all taxa assessments)*. Palmetto Bluff Conservancy. May 2010-Dec. 2010. (\$5,000)
- Waldron, J. L., and **K. M. Andrews**. 2009. *Direct and indirect effects of exurbanization on the Eastern Diamondback Rattlesnake*. Riverbanks Zoo Conservation Fund. Dec. 2009-Dec. 2010. (\$9,200)
- **Andrews, K. M.**, J. W. Gibbons, and M. A. Pilgrim. 2006. *Investigating effects of ecologically conservative residential development on snake movement patterns and survivorship in the Lowcountry of South Carolina*. Palmetto Bluff Conservancy. Jun. 2006-May 2009. (\$50,206)
- Gibbons, J. W., **K. M. Andrews**, and J. L. Greene. 2006. *Wildlife highway crossing study: investigation of the use of highway culverts by wildlife*. U.S. Geological Survey. Mar. 2006-Sep. 2007. (\$53,556)
- Gibbons, J. W., **K. M. Andrews**, and J. L. Greene. 2006. *Wildlife highway crossing study: investigation of the use of highway culverts by wildlife*. GA Department of Transportation. Sep. 2006-Sep. 2007. (\$24,000)
- Gibbons, J. W. and **K. M. Andrews**. 2004. *Impacts of roads on reptiles and amphibians – literature synthesis report*. Federal Highway Administration. Aug. 2004-Aug. 2005. (\$45,000)

#### PEER-REVIEWED PUBLICATIONS

\*graduate students and technicians; \*\*undergraduate students and AmeriCorps under my mentorship

- \*Hoog, M. E., K. M. Andrews, and \*K. J. Zemaitis. Alligator mississippiensis (*American Alligator*). *Maternal care*. Herpetological Review. *In press*.
- \*Paden, L. M., and **K. M. Andrews**. 2020. *Modification and validation of low-cost recreational GPS loggers for tortoises*. Wildlife Society Bulletin 44: 773-781.

- \*Paden, L. M., **K. M. Andrews**, \*\*C. Candal, and J. F. Renner. 2020. *Use of prescribed fire to increase detectability of gopher tortoise (Gopherus polyphemus) burrows prior to relocation*. *Herpetological Conservation and Biology* 15: 448-456.
- Pfaller, J. B., M. Pajuelo, H. B. Vander Zanden, **K. M. Andrews**, M. G. Dodd, M. H. Godfrey, D. B. Griffin, \*B. L. Ondich, S. M. Pate, K. L. Williams, B. M. Shamblin, C. J. Nairn, A. B. Bolten, and K. A. Bjorndal. 2020. *Identifying patterns in foraging-area origins in breeding aggregations of migratory species: loggerhead turtles in the Northwest Atlantic*. *PLoS ONE* 15: e0231325.
- Rivera, B., \*\*K. Cook, **K. Andrews**, M. S. Atkinson, and A. E. Savage. 2019. *Pathogen infection dynamics differ in an invasive island-dwelling frog compared to native species*. *Ecohealth*: <https://doi.org/10.1007/s10393-019-01432-4>.
- \*\*Parson, K. M., and **K. M. Andrews**. 2019. *Crotalus adamanteus. Eastern diamond-backed rattlesnake. Growth rate*. *Herpetological Review* 50: 153.
- Holbrook, C. T., \*\*J. W. Mahas, \*B. L. Ondich, and **K. M. Andrews**. 2019. *The threat of predatory fire ants to loggerhead sea turtles nesting on Jekyll Island, Georgia, USA*. *Marine Turtle Newsletter* 156: 5-9.
- \*Mascovich, K. A., L. M. Larson, and **K. M. Andrews**. 2018. *Lights on, or lights off? Hotel guests' response to non-personal educational outreach designed to protect nesting sea turtles*. *Chelonian Conservation and Biology* 17: 206-215.
- \*Mascovich, K. A., and **K. M. Andrews**. 2018. *Apparent sleeping behaviors observed during nesting events in loggerhead sea turtles*. *Marine Turtle Newsletter* 155: 1-3.
- \*\*Ballard, A., **K. M. Andrews**, and J. E. Colbert. 2018. *Lampropeltis getula getula (eastern kingsnake) diet and habitat use*. *Herpetological Review* 49: 344-345.
- Flower, J. E., T. M. Norton, **K. M. Andrews**, C. E. Parker, M. Romero, K. E. Rockwell, and M. A. Mitchell. 2018. *Baseline corticosterone, hematology, and biochemistry results and correlations to reproductive success in nesting loggerhead sea turtles (Caretta caretta)*. *Journal of Zoo and Wildlife Medicine* 49: 9-17.
- \*\*DeSha, J. N., J. Colbert, **K. M. Andrews**, S. Coleman, and C. T. Holbrook. 2017. *Effects of a prescribed burn of on the adult butterfly community of a coastal grassland*. *Georgia Journal of Science* 75: 1-10.
- \*Skupien, G. M., and **K. M. Andrews**. 2017. *Factors influencing the abundance of the American alligator (Alligator mississippiensis) on Jekyll Island, Georgia, USA*. *Journal of Herpetology* 51: 89-94.
- Shamblin, B. M., M. G. Dodd, D. B. Griffin, M. Pate, M. H. Godfrey, M. S. Coyne, K. L. Williams, J. B. Pfaller, \*B. L. Ondich, **K. M. Andrews**, R. Boettcher, and C. J. Nairn. 2017. *Improved female abundance and reproductive parameter estimates through subpopulation-scale genetic capture-recapture of loggerhead turtles*. *Marine Biology* 2017: 164:138 doi:10.1007/s00227-017-3166-1.
- \*Skupien, G. M., **K. M. Andrews**, and T. M. Norton. 2016. *Benefits and biases of VHF and GPS telemetry: A case study assessment of American alligator spatial ecology*. *Wildlife Society Bulletin* 40: 772-780.
- \*\*Murphy, C. M., J. C. Maerz, **K. M. Andrews**, and T. D. Tuberville. 2016. *Evaporative water loss rates of four species of aquatic turtles from the Coastal Plain of the southeastern United States*. *Journal of Herpetology* 457-463.
- \*Skupien, G. M., **K. M. Andrews**, and L. R. Larson. 2016. *Teaching tolerance? Effects of conservation education programs on wildlife acceptance capacity for the American alligator*. *Human Dimensions of Wildlife* 21: 264-279.
- \*Crawford, B. A., and **K. M. Andrews**. 2016. *Drivers' attitudes toward wildlife-vehicle collisions with reptiles and other taxa*. *Animal Conservation* 2016: doi:10.0000/acv.12261.

- Tuberville, T. D., **K. M. Andrews**, J. H. Sperry, and \*A. M. Grosse. 2015. *Use of the NatureServe Climate Change Vulnerability Index as an assessment tool for reptiles and amphibians: Lessons learned*. Environmental Management 56: 822-834.
- Flower, J. E., T. M. Norton, **K. M. Andrews**, C. E. Parker, L. M. Romero, and M. A. Mitchell. 2015. *The use of baseline corticosterone, hematologic, and biochemistry results to assess the health status and reproductive success of nesting loggerhead sea turtles (Caretta caretta)*. Conservation Physiology 3: cov003 doi:10.1093/conphys/cov003.
- \*Colbert, J. E., **K. M. Andrews**, and T. M. Norton. 2014. *Agkistrodon piscivorus* (Cottonmouth). *Prey and diet size*. Herpetological Review 45: 703-704.
- \*\*White, K. N., **K. M. Andrews**, and \*\*E. B. Chapman. 2014. *Coluber (=Masticophis) flagellum* (Coachwhip). *Reproduction*. Herpetological Review 45: 706-707.
- \*Ondich, B. L. and **K. M. Andrews**. 2013. *A history of sea turtle tagging and monitoring on Jekyll Island, Georgia, USA*. Marine Turtle Newsletter 138: 11-15.
- Todd, B. D. and **K. M. Andrews**. 2008. *Response of a reptile guild to forest harvesting*. Conservation Biology 22: 753-761.
- Winne, C. T., J. D. Willson, B. D. Todd, **K. M. Andrews**, and J. W. Gibbons. 2007. *Enigmatic decline of a protected population of eastern kingsnakes, Lampropeltis getula, in South Carolina*. Copeia 2007: 507-519.
- Glaudas, X. A., **K. M. Andrews**, J. D. Willson, and J. W. Gibbons. 2007. *Migration patterns in a population of cottonmouths (Agkistrodon piscivorus) inhabiting an isolated wetland*. Journal of Zoology 271: 119-124. (Cover article)
- Gibbons, J. W., C. T. Winne, D. E. Scott, J. D. Willson, X. Glaudas, **K. M. Andrews**, B. D. Todd, et al. 2006. *Remarkable amphibian biomass and abundance in an isolated wetland, with implications for wetland conservation*. Conservation Biology 20:1457-1465.
- Richardson, J. I., R. Kerr-Bjorkland, P. A. Mason, D. B. Hall, Y. Cai, **K. M. Andrews**, and R. Bell. 2006. *Eighteen years of saturation tagging reveal significant increase in nesting hawksbill sea turtles (Eretmochelys imbricata) on Long Island, Antigua*. Animal Conservation 9: 302-307.
- Winne, C. T., J. D. Willson, **K. M. Andrews**, and R. N. Reed. 2006. *Efficacy of marking snakes with disposable medical cautery units*. Herpetological Review 37:52-54.
- **Andrews, K. M.** and J. W. Gibbons. 2005. *How do highways influence snake movement? Behavioral responses to roads and vehicles*. Copeia 2005: 771-781.
- *Invited*: Gibbons, J. W. and **K. M. Andrews**. 2004. *PIT tagging: Simple technology at its best*. Bioscience 54: 447-454. (Cover article)
- Frick, M. G., P. A. Mason, K. L. Williams, **K. Andrews**, and H. Gerstung. 2003. *Epibionts of hawksbill turtles in a Caribbean nesting ground: A potentially unique association with snapping shrimp (Crustacea: Alpheidae)*. Marine Turtle Newsletter 99: 8-11.

<b>BOOKS AND CONTRIBUTED CHAPTERS</b>
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- *Invited*: **Andrews, K. M.**, K. M. Stanford, A. G. Stengle, and \*K. J. Zemaitis. *Defining success in conservation: changing human attitudes and perceptions of reptile predators*. In: S. Walls and K. O'Donnell (eds.), Conservation Successes in Herpetology. Society for the Study of Reptiles and Amphibians. *In press*.
- *Invited*: Norton, T. M., **K. M. Andrews**, and L. L. Smith. 2019. *Working with free ranging reptiles*. In: S. Divers and S. Stahl (eds.), pp. 1366-1381. Mader's Reptile and Amphibian Medicine and Surgery. Elsevier Press, Cambridge, MA.

- **Invited: Andrews, K. M.,** G. M. Skupien, and \*R. G. Bauer. 2018. *Alternative management tools for American alligators*. In: S. Henke and C. Eversole (eds.), pp. 329-347. American Alligators: Habitats, Behaviors, and Threats. Nova Publishing, Hauppauge, NY.
- **Invited: \*Bauer, R. G., T. M. Norton, K. M. Andrews,** and G. M. Skupien. 2018. *Environmental toxicology and health assessments of the American alligator*. In: S. Henke and C. Eversole (eds.), pp. 215-254. American Alligators: Habitats, Behaviors, and Threats. Nova Publishing, Hauppauge, NY.
- **Andrews, K. M.** and J. L. Waldron. 2017. *Comparative overwintering ecology of a coastal and an inland population of canebrake rattlesnakes (Crotalus horridus) in the southern United States*. In: M. J. Dreslik, W. K. Hayes, S. J. Beaupre, and S. P. Mackessy (eds.), pp. 196-212. Biology of the Rattlesnakes (vol. 2). ECO Herpetological Publishing and Distribution, Rodeo, NM.
- **LEAD EDITOR: Andrews, K. M.,** P. Nanjappa, and S. P. D. Riley (eds.). 2015. Roads and Ecological Infrastructure: Concepts and Applications for Small Animals. Johns Hopkins University Press, Baltimore, MD.
- **Invited: Tupper, T., and K. M. Andrews.** 2015. *Wildlife Alert: The Eastern Diamondback Rattlesnake*. In: S. A. Miller and J. P. Harley (eds.), Zoology, 10<sup>th</sup> Ed. McGraw Hill Education, New York, NY.
- **Invited: Andrews, K. M.,** T. A. Langen, and R. P. J. H. Struijk. 2015. *Reptiles: Overlooked but often at risk from roads*. In: R. van der Ree, D. J. Smith, and C. Grilo (eds.), pp. 271-280. Handbook of Road Ecology. John Wiley & Sons, Oxford. Won 2016 IENE Project Award.
- **Invited: Norton, T. M., K. M. Andrews,** and L. L. Smith. 2013. *Amphibian and reptile capture, handling and marking techniques and telemetry application*. In: D. R. Mader and S. J. Divers (eds.), pp. 310-340. Reptile Medicine and Surgery: Current Therapy. Elsevier Press, Cambridge, MA.
- **Invited: Andrews, K. M.** 2013. *Road cruising*. In: G. J. Graeter, K. A. Buhlmann, L. R. Wilkinson, and J. W. Gibbons (eds.), Inventory and Monitoring: Recommended Techniques for Reptiles and Amphibians, with Application to the United States and Canada, pp. 94-98. Partners and Amphibians and Reptiles Conservation (PARC) Publication Technical Publication IM-1, High Cotton, Birmingham, AL.
- **Invited: Andrews, K. M.,** B. D. Todd, and L. A. Fedewa. 2013. *Threats to amphibians and reptiles*. In: G. J. Graeter, K. A. Buhlmann, L. R. Wilkinson, and J. W. Gibbons (eds.), Inventory and Monitoring: Recommended Techniques for Reptiles and Amphibians, with Application to the United States and Canada, pp. 2-11. Partners and Amphibians and Reptiles Conservation (PARC) Technical Publication IM-1, High Cotton, Birmingham, AL.
- **Invited: Tuberville, T. D., K. M. Andrews,** J. D. Westervelt, H. E. Balbach, J. Macey, and L. Carlile. 2012. *Using demographic sensitivity testing to guide management for gopher tortoises on Fort Stewart, Georgia: a comparison of individual-based modeling and population viability analysis approaches*. In J. D. Westervelt and G. L. Cohen (eds.), Ecologist-Developed Spatially-Explicit Dynamic Landscape Models, pp. 109-131. Springer Press, New York, NY.
- **Andrews, K. M.** 2010. *Snakes in Fragmenting Landscapes: An Investigation of Linear Barriers and Landscape Alterations*. Doctoral Dissertation. University of Georgia, Athens, GA.
- **Andrews, K. M.** and J. W. Gibbons. 2008. *Roads as Catalysts of Urbanization: Snakes on Roads Face Differential Impacts Due to Inter- and Intra-specific Ecological Attributes*. In: J. C. Mitchell, R. E. Jung Brown and B. Bartholomew (eds.), Urban Herpetology, pp. 145-153. Society for the Study of Amphibians and Reptiles, Herpetological Conservation Volume 3, Salt Lake City, UT.

- *Invited: Andrews, K. M., J. W. Gibbons, and D. M. Jochimsen. 2008. Ecological effects of roads on amphibians and reptiles: a literature review. In: J. C. Mitchell, R. E. Jung Brown, and B. Bartholomew (eds.), Urban Herpetology, pp. 121-143. Society for the Study of Amphibians and Reptiles, Herpetological Conservation Volume 3, Salt Lake City, UT.*
- *Invited: Various species accounts – 2008. In: J. Jensen, C. Camp, J. W. Gibbons, and M. Elliott (eds.), Reptiles and Amphibians of Georgia. University of Georgia Press, Athens, GA:*
  - **Andrews, K. M.** Green sea turtle (*Chelonia mydas*). pp. 447-449.
  - **Andrews, K. M.** and J. W. Gibbons. Black racer (*Coluber constrictor*). pp. 333-335.
  - **Andrews, K. M.** and J. W. Gibbons. Leatherback sea turtle (*Dermochelys coriacea*). pp. 463-465.
  - **Andrews, K. M.** and J. W. Gibbons. Rat snake (*Elaphe obsoleta*). pp. 345-347.
  - **Andrews, K. M.** and J. W. Gibbons. Ringneck snake (*Diadophis punctatus*). pp. 336-338.
  - **Andrews, K. M.** and J. W. Gibbons. Southeastern crowned snake (*Tantilla coronata*). pp. 407-408.
  - **Andrews, K. M., P. A. Mason, and J. I. Richardson.** Hawksbill sea turtle (*Eretmochelys imbricata*). pp. 450-452.
  - **Andrews, K. M.** and J. I. Richardson. Loggerhead sea turtle (*Caretta caretta*). pp. 444-446.
  - **Mason, P. A. and K. M. Andrews.** Kemp's ridley sea turtle (*Lepidochelys kempii*). pp. 453-455.
  - **Willson, J. D. and K. M. Andrews.** Copperhead (*Agkistrodon contortrix*). pp. 424-426.
  - **Andrews, K. M.** 2004. *Interspecific comparisons of behavioral responses of southeastern snakes to roads*. M.S. Thesis. University of Georgia. Athens, GA.

<b>PUBLISHED PROCEEDINGS, REPORTS, AND POPULAR ARTICLES</b>
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- **Andrews, K. M., P. Nanjappa, S. P. D. Riley, and K. E. Gunson.** 2012. *Road planning and mitigation design for small animals: concepts and applications. In: Proceedings of the 2011 International Conference on Ecology and Transportation, pp. 503-509. Center for Transportation and the Environment, North Carolina State University, Raleigh, NC.*
- **Muenz, T. K. and K. M. Andrews.** 2008. *The reconciliation of hawksbill (Eretmochelys imbricata) nesting habitat with vegetation islands on Long Island, Antigua, West Indies. In: H. Kalb, A. Rohde, K. Gayheart, and K. Shanker (compilers), Proceedings of the 25<sup>th</sup> International Symposium on Sea Turtle Biology and Conservation, pp. 145. NOAA Technical Memorandum NMFS-SEFSC-582.*
- **Andrews, K. M., J. W. Gibbons, and D. M. Jochimsen.** 2006. *Literature synthesis of the effects of roads and vehicles on amphibians and reptiles.* Federal Highway Administration (FHWA), U.S. Department of Transportation, Report no. FHWA HEP 08-005. Washington, D.C. 151 pp.
- **Andrews, K. M., and J. W. Gibbons.** 2006. *Dissimilarities in behavioral responses of snakes to roads and vehicles have implications for differential impacts across species. In: C. L. Irwin, P. Garrett, and K. P. McDermott (eds.), Proceedings of the 2005 International Conference on Ecology and Transportation, pp. 339-350. Center for Transportation and the Environment, North Carolina State University, Raleigh, NC.*
- **Gibbons, W. and K. Andrews.** 2005. *Life (and death) in a nest box.* South Carolina Wildlife March-April.

- **Andrews, K. M.** 2004. *Behavioral responses of snakes to road encounters: Can we generalize impacts across species? (An overview summary)*. In: C. L. Irwin, P. Garrett, and K. P. McDermott (eds.), *Proceedings of the 2003 International Conference on Ecology and Transportation*, pp. 649-651. Center for Transportation and the Environment, North Carolina State University, Raleigh, NC.
- Jochimsen, D. M., C. R. Peterson, **K. M. Andrews**, and J. W. Gibbons. 2004. *A literature review of the effects of roads on amphibians and reptiles and the measures used to minimize those effects*. US Forest Service report. 79 pp.
- **Andrews, K. M.** and H. Gerstung. 2003. *Initial realities in the analysis of Argos satellite telemetry data*. In: J. A. Seminoff (compiler), *Proceedings of the 22<sup>nd</sup> International Symposium on Sea Turtle Biology and Conservation*, pp. 52-53. NOAA Technical Memorandum NMFS-SEFSC-503.
- Muenz, T. K. and **K. M. Andrews**. 2003. *The recovery of nesting habitat: A proactive approach for conservation of the hawksbill sea turtle, Eretmochelys imbricata, Long Island, Antigua, West Indies*. In: J. A. Seminoff (compiler), *Proceedings of the 22<sup>nd</sup> International Symposium on Sea Turtle Biology and Conservation*, pp. 105-106. NOAA Technical Memorandum NMFS-SEFSC-503.

<b>LEAD AUTHOR PRESENTATIONS AT PROFESSIONAL CONFERENCES</b>
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*\*denotes presenting author(s)*

- *Invited*: 2022 Transportation Research Board (oral):
  - \***Andrews, K. M.** and P. Cramer. 2022. *Strategic integration of wildlife mitigation into transportation procedures*. Virtual.
- 2022 Transportation Research Board (poster):
  - \***Andrews, K. M.**, H. Held, and D. Hedeem. 2022. *Solar-powered science: multi-agency benefits of natural history research on the federally listed eastern indigo snake*. Washington, DC
  - \***Andrews, K. M.** and F. M. Shilling. 2022. *Measuring rapid shoreline change and threats to coastal infrastructure*. Washington, DC.
- 2021 Georgia Association of Natural Resources Extension Professionals (invited oral):
  - \*Andrews, K. M. 2021. *Managing healthy coastal ecosystems and human infrastructure*. Washington, DC.
- 2021 International Conference on Ecology and Transportation (oral, co-presented):
  - \***Andrews, K. M.** and F. M. Shilling. 2021. *Measuring rapid shoreline change threatening infrastructure*. Virtual.
  - \*Held, H. \***K. M. Andrews.**, E. B. Chapman, D. Hedeem. 2021. *Solar-powered science – innovative technology leading to multi-agency benefits from a newfound understanding of the natural history of eastern indigo snakes*. Virtual.
- 2021 Georgia Sea Grant Annual Research Symposium (oral):
  - \***Andrews, K. M.** 2021. *Pride in Glynn County seafood project*. Virtual.
- 41<sup>st</sup> Annual Gopher Tortoise Council meeting (poster):
  - \***Andrews, K. M.**, M. L. Gulsby, J. F. Renner, T. Fazio, S. White, and M. Elliott. 2020. *Changing Perceptions of Wildlife: How Collaboration can Protect Gopher Tortoises (Gopherus polyphemus) while Maintaining Industrial Progress*. Virtual.
- 2019 International Conference on Ecology and Transportation (oral):
  - \***Andrews, K. M.**, and D. Hedeem. 2019. *Efficient planning for conducting EIS/GT surveys given the complexities of wildlife species detection*. Sacramento, CA.

- **\*Andrews, K. M.,** and F. M. Shilling. 2019. *Using translational ecology to communicate climate change and road ecology: A picture is worth 1000 words!* Sacramento, CA.
- Biology of the Pit Vipers 3 (poster):
  - **\*Andrews, K. M.,** and J. E. Colbert. 2019. *Come closer, go away: the use and avoidance of development by rattlesnakes.* Rodeo, NM.
- Invited: 2018 Georgia Sea Grant Research Symposium (oral):
  - **\*Andrews, K. M.** 2018. *Understanding our coastal shorelines: managing where the sea meets the people.* Athens, GA.
- 33<sup>rd</sup> Annual Joint Meetings of Ichthyologists and Herpetologists (oral):
  - **\*Andrews, K. M.,** O. Brenes, R. Bauer, L. Paden, and L. D. Castillo. 2017. *Tricks of the trade in researching and managing healthy crocodilian populations.* Austin, TX.
- 2017 International Urban Wildlife Conference (oral):
  - **\*Andrews, K. M.,** G. M. Skupien, R. G. Bauer, and T. M. Norton. 2017. *King of the coast: understanding spatial patterns of male American alligators on a Georgia barrier island.* San Diego, CA.
  - **\*Andrews, K. M.,** J. E. Colbert, T. M. Norton, K. M. Parson, and D. J. Fraser. 2017. *Everyone wants to know, "Where are the rattlesnakes, and are they a problem?"* San Diego, CA.
- 2017 International Conference on Ecology and Transportation (oral):
  - **\*Andrews, K. M.,** D. M. Zailo, B. A. Crawford, and T. M. Norton. 2017. *Integrating ecology, novel technology, and human dimensions for understanding the effects of coastal causeways on diamondback terrapins.* Salt Lake City, UT.
  - **\*Shilling, F. M.,** and **\*K. M. Andrews.** 2017. *Is there a place for road ecology in transportation planning?* Salt Lake City, UT.
- Invited: 2017 Transportation Research Board (oral):
  - **\*Shilling, F. M., \*K. M. Andrews,** and K. A. Mascovich. 2017. *Management of outdoor lighting to reduce impacts on wildlife.* Washington, D. C.
- Invited plenary: 23<sup>rd</sup> Annual Conference of The Wildlife Society (oral):
  - **\*Andrews, K. M.,** and P. Nanjappa. 2016. *Local partnerships fuel the fire of wildlife planning: Examples from reptile conservation.* Raleigh, NC.
- 2016 Infra Eco Network Europe Conference (oral):
  - **\*Andrews, K. M.,** P. Nanjappa, and S. P. D. Riley. 2016. *Roads and ecological infrastructure: Concepts and applications for small animals.* Lyon, France.
- Invited speaker in special symposium – Exploring the Science and Evolution of Transportation Ecology: North American Congress for Conservation Biology (oral):
  - **\*Andrews, K. M.** 2016. *Differential consequences of road mortality on species and populations (conflicts and consequences).* Madison, WI.
- 32<sup>nd</sup> Annual Joint Meetings of Ichthyologists and Herpetologists (oral):
  - **\*Andrews, K. M.** and K. M. Parson. 2016. *The influence of temperature on the activity patterns and surfacing behavior of coastal rattlesnakes.* New Orleans, LA.
- 12<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (oral):
  - **\*Andrews, K. M.,** B. B. Harris, J. D. Westervelt, N. P. Nibbelink, and T. D. Tuberville. 2016. *Slight reductions in precipitation affect mole salamander (*Ambystoma talpoideum*) persistence and isolated wetland hydrology in a coastal plains landscape.* Nauvoo, AL.
- 22<sup>nd</sup> Annual Conference of The Wildlife Society (oral):
  - **\*Andrews, K. M.** and J. E. Colbert, III. 2015. *Seasonal surface activity and space use of timber rattlesnakes (*Crotalus horridus*) in the sunny south.* Winnipeg, Manitoba, Canada.
- 2015 International Conference on Ecology and Transportation (poster):
  - **\*Andrews, K.M.,** P. Nanjappa, and S. P. D. Riley. 2015. *Roads and ecological infrastructure: Concepts and applications for small animals.* Raleigh, NC.

- 2015 International Urban Wildlife Conference (oral):  
\***Andrews, K. M.**, D. J. Fraser, J. E. Colbert, III, and T. M. Norton. 2015. *Habitat use by eastern diamondback rattlesnakes (Crotalus adamanteus) on a developed barrier island*. Chicago, IL.
- 2015 International Urban Wildlife Conference (oral):  
\***Andrews, K.M.**, P. Nanjappa, and S. P. D. Riley. 2015. *Roads and ecological infrastructure: Concepts and applications for small animals*. Chicago, IL.
- 2<sup>nd</sup> Southeast Regional Sea Turtle Meeting (oral):  
\***Andrews, K. M.**, K. N. White, T. M. Norton, and K. Haman. 2015. *Factors affecting the distribution and nesting success of loggerhead sea turtles (Caretta caretta) on a barrier island*. Jekyll Island, GA.
- 21<sup>st</sup> Annual Conference of The Wildlife Society (oral):  
\***Andrews, K. M.** and G. M. Skupien. 2014. *Spatial ecology of the American alligator on a developed barrier island*. Pittsburgh, PA.
- Biology of the Pit Vipers 2 (oral):  
\***Andrews, K. M.** and J. E. Colbert, III. 2014. *Rattlesnake conservation in the sunny south*. Tulsa, OK.
- 34<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation (poster):  
\***Andrews, K. M.**, B. L. Ondich, K. A. Mascovich, and T. M. Norton. 2014. *Long-term activity of loggerhead sea turtles (Caretta caretta) on Jekyll Island, GA, USA: A demographical summary based on 40+ years of tagging on a developed beach*. New Orleans, LA.
- 10<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (oral):  
\***Andrews, K. M.** and J. E. Colbert, III. 2014. *Habitat use by eastern diamondback rattlesnakes (Crotalus adamanteus) on a developed barrier island*. Lake Cumberland, KY.
- 9<sup>th</sup> Southern Forestry and Natural Resource Management GIS Conference (oral):  
\***Andrews, K. M.**, T. D. Tuberville, and B. B. Harris. 2013. *Using the NatureServe climate change vulnerability index as a modeling prioritization tool*. Athens, GA.
- 20<sup>th</sup> Annual Conference of The Wildlife Society (oral):  
\***Andrews, K. M.**, T. D. Tuberville, and B. B. Harris. 2013. *Using the NatureServe climate change vulnerability index as a modeling prioritization tool*. Milwaukee, WI.
- 2013 International Conference on Ecology and Transportation (oral):  
\***Andrews, K. M.**, P. Nanjappa, and S. P. D. Riley. 2013. *Roads and small animals: how to consider both public and ecological infrastructure*. Scottsdale, AZ.
- International Association of Landscape Ecology –United States Regional Association (oral):  
\***Andrews, K. M.**, T. D. Tuberville, N. P. Nibbelink, and J. D. Westervelt. 2013. *Identifying landscape metrics for predicting gopher tortoise (Gopherus polyphemus) distribution on a military installation*. Austin, TX.
- *Invited Keynote Address*: 2013 Annual Georgia Association of Marine Educators (GAME) conference (oral):  
\***Andrews, K. M.** 2013. *Aha! Turning teachable moments into action*. Jekyll Island, GA.
- 4<sup>th</sup> Box Turtle Workshop (oral):  
\***Andrews, K. M.**, J. E. Colbert, III, T. M. Norton, and S. E. Nelson. 2013. *Box turtle survival and home range size: an initial assessment of headstarting*. Asheboro, NC.
- 9<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (oral):  
\***Andrews, K. M.** and T. D. Tuberville. 2013. *Evaluating vulnerability of Sandhills herpetofauna to climate change*. Hickory Knob, SC.

- 9<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (poster):  
\***Andrews, K. M.**, B. B. Harris, and T. D. Tuberville. 2013. *Evaluating climate change vulnerability of reptiles and amphibians in the Sandhills Ecoregion*. Hickory Knob, SC.
- *Invited Keynote Address*: Midwestern Partners in Amphibian and Reptile Conservation (MWPARC) meeting (oral):  
\***Andrews, K. M.** 2012. *Reptiles in developing landscapes: why can't we all just get along?* Pioneer, OH.
- The 7<sup>th</sup> Convention of the World Congress of Herpetology (oral):  
\***Andrews, K. M.** and J. E. Colbert. 2012. *An initial take on the spatial responses of canebrake rattlesnakes (Crotalus horridus) to initial landscape conversion*. Vancouver, British Columbia.
- *Invited*: Association of Fish and Wildlife Agencies: Amphibian and Reptile Subcommittee (oral):  
**Andrews, K. M.**, P. Nanjappa, Seth P. D. Riley, and \*K. Barrett. 2012. *Road planning and mitigation design for small animals: concepts and applications*. Hilton Head, SC.
- *Invited*: Joint National Steering Committee for the Partners in Amphibian and Reptile Conservation (oral):  
\***Andrews, K. M.**, P. Nanjappa, and Seth P. D. Riley. 2012. *Road planning and mitigation design for small animals: concepts and applications*. Atlanta, GA.
- 8<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (oral):  
\***Andrews, K. M.** and T. D. Tuberville. 2012. *Evaluating vulnerability of sandhills herpetofauna to climate change*. Falls Creek Falls, TN.
- *Invited*: 18<sup>th</sup> Annual Conference of The Wildlife Society (oral):  
\***Andrews, K. M.**, P. Nanjappa, and Seth P. D. Riley. 2011. *Road planning and mitigation design for small animals: concepts and applications*. Waikoloa, HI.
- 2011 International Conference on Ecology and Transportation (oral):  
\***Andrews, K. M.**, \*K. E. Gunson, P. Nanjappa, and Seth P. D. Riley. 2011. *Road planning and mitigation design for small animals: concepts and applications*. Seattle, WA.
- 2011 Symposium on the Biology of the Rattlesnakes (oral):  
\***Andrews, K. M.** 2011. *Management of rattlesnakes in urbanizing landscapes: biological challenges and nuisance perceptions*. Tucson, AZ.
- Savannah River Site 60<sup>th</sup> Anniversary Symposium (poster):  
\***Andrews, K. M.**, \*T. D. Tuberville, and J. D. Westervelt. 2011. *Using individual-based modeling to investigate the influence of landscape variables on persistence of gopher tortoise populations*. Aiken, SC.
- 7<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (oral):  
\***Andrews, K. M.** 2011. Home range sizes of timber rattlesnakes (*Crotalus horridus*) are affected by initial landscape development. Lake Tiak O'Khata, MS.
- Doctoral Defense, University of Georgia, Savannah River Ecology Laboratory (oral):  
\***Andrews, K. M.** 2010. *Snakes in fragmenting landscapes: An investigation of landscape alterations and linear barriers*. Aiken, SC.
- *Invited*: 17<sup>th</sup> Annual Conference of The Wildlife Society (oral):  
\***Andrews, K. M.** 2010. *Ecological effects of road infrastructure on herpetofauna: understanding biology and increasing communication*. Snowbird, UT.
- 26<sup>th</sup> Annual Joint Meetings of Ichthyologists and Herpetologists (oral):  
\***Andrews, K. M.** and P. Nanjappa. 2010. *Guiding the way: enhancing ecosystem connectivity through transportation planning*. Providence, RI.

- 26<sup>th</sup> Annual Joint Meetings of Ichthyologists and Herpetologists (poster):  
\***Andrews, K. M.**, \*T. D. Tuberville, and J. D. Westervelt. 2010. *Using individual-based modeling to investigate the influence of landscape variables on persistence of gopher tortoise populations*. Providence, RI.
- International Association of Landscape Ecology – 25<sup>th</sup> Anniversary Symposium of the United States Regional Association (poster):  
\***Andrews, K. M.**, \*T. D. Tuberville, J. D. Westervelt, J. Macey, and L. Carlile. 2010. *Using individual-based modeling to investigate the influence of landscape variables on persistence of gopher tortoise populations*. Athens, GA.
- *Invited*: International Symposium on Urban Wildlife and the Environment (oral):  
\***Andrews, K. M.** 2009. *The road to urbanization: an overview of ecological effects on herpetofauna*. Amherst, MA.
- *Invited*: 30<sup>th</sup> Annual Gopher Tortoise Council meeting (oral):  
\***Andrews, K. M.** 2008. *Chelonians and roads: mortality and beyond*. Jekyll Island, GA.
- *Invited*: Diamondback Terrapin Mortality Workshop (oral):  
\***Andrews, K. M.** 2008. *Where the turtle meets the tire: what we know and what we need to know for management and conservation*. Jekyll Island, GA.
- Savannah River Ecology Laboratory Long-term Research Workshop (oral):  
\***Andrews, K. M.** 2008. *SREL Herpetology snake database 1950-present*. Aiken, SC.
- 23<sup>rd</sup> Annual Joint Meetings of Ichthyologists and Herpetologists (poster):  
\***Andrews, K. M.**, D. M. Jochimsen, and J. W. Gibbons. 2007. *Ecological effects of roads on herpetofauna: understanding biology and increasing communication*. St. Louis, MO.
- *Invited*: 2007 International Conference on Ecology and Transportation (oral):  
\***Andrews, K. M.** 2007. *Ecological effects of roads on herpetofauna: understanding biology and increasing communication are critical for wildlife conservation*. Little Rock, AK.
- 2007 International Conference on Ecology and Transportation (poster):  
\***Andrews, K. M.**, D. M. Jochimsen, and J. W. Gibbons. 2007. *Literature synthesis of the effects of roads and vehicles on amphibians and reptiles: a snapshot of our journey*. Little Rock, AK.
- 22<sup>nd</sup> Annual Joint Meetings of Ichthyologists and Herpetologists (oral):  
\***Andrews, K. M.** 2006. *On the road with herps: the importance of asking for directions*. New Orleans, LA.
- 3<sup>rd</sup> Annual Savannah River Ecology Laboratory Graduate Student Symposium (oral):  
\***Andrews, K. M.** 2006. *On the road with herps: the importance of asking for directions*. Aiken, SC.
- *Invited*: Southeastern Partners in Amphibian and Reptile Conservation (SEPARC) meeting (oral):  
\***Andrews, K. M.** and \*J. W. Gibbons. 2006. *Roads and herps: can amphibians and reptiles persevere?* Andalusia, AL.
- *Invited*: 3<sup>rd</sup> Annual All South Carolina Herpetology Conference (oral):  
\***Andrews, K. M.** and J. W. Gibbons. 2006. *The road trip for herps: finding the right map*. Columbia, SC.
- 2005 International Conference on Ecology and Transportation (oral):  
\***Andrews, K. M.** and J. W. Gibbons. 2005. *How do highways influence snake movement? Behavioral responses to roads and vehicles*. San Diego, CA.
- 21<sup>st</sup> Annual Joint Meetings of Ichthyologists and Herpetologists (oral):  
\***Andrews, K. M.** and J. W. Gibbons. 2005. *Ecological attributes of snakes on roads: sex, size and status*. Tampa, FL.
- 21<sup>st</sup> Annual Joint Meetings of Ichthyologists and Herpetologists (poster):

- **\*Andrews, K. M., P. A. Mason, and J. W. Gibbons. 2005.** *What is the half-life of a dead snake? Persistence of road-killed snake specimens is affected by scavengers, traffic density, and abiotic factors.* Tampa, FL.
- 2<sup>nd</sup> Annual Savannah River Ecology Laboratory Graduate Student Symposium (oral):
  - **\*Andrews, K. M. and J. W. Gibbons. 2005.** *Ecological attributes of snakes on roads: sex, size and status.* Aiken, SC.
- Award: 20<sup>th</sup> Annual Joint Meetings of Ichthyologists and Herpetologists (oral):
  - **\*Andrews, K. M. 2004.** *To cross or not to cross: a behavioral investigation of responses to roads by southeastern snake species.* Norman, OK.
  - Received Honorable Mention for ASIH Stoye Conservation Award.
- Award: 1<sup>st</sup> Annual Savannah River Ecology Laboratory Graduate Student Symposium (oral):
  - **\*Andrews, K. M. 2004.** *The road not always traveled: Interspecific comparisons of behavioral responses of southeastern snakes to roads.* Aiken, SC.
  - 2<sup>nd</sup> place oral presentation in competition with M.S. and Ph.D students and Postdocs.
- Masters Defense, University of Georgia (oral):
  - **\*Andrews, K. M. 2004.** *Interspecific comparisons of behavioral responses of southeastern snakes to roads.* Athens, GA.
- Invited: Southeastern Partners in Amphibian and Reptile Conservation (SEPARC) meeting (oral):
  - **\*Andrews, K. M. and \*M. J. Aresco. 2004.** *The effects of roads on reptiles and amphibians: opportunities for mitigation of habitat fragmentation and direct mortality.* Jasper, SC.
- Invited: 1<sup>st</sup> Annual All South Carolina Herpetology Conference (oral):
  - **\*Andrews, K. M. 2004.** *Why does the snake cross the road? Interspecific variation in behavioral responses to roads.* Columbia, SC.
- 10<sup>th</sup> Annual Institute of Ecology Graduate Student Symposium, University of Georgia (oral):
  - **\*Andrews, K. M. 2004.** *How does the snake cross the road? An interspecific comparison of behavior.* Athens, GA.
- 2003 International Conference on Ecology and Transportation (poster and video):
  - **\*Andrews, K. M. and J. W. Gibbons. 2003.** *Interspecific behavioral responses of snakes to roads.* Lake Placid, NY.
- 9<sup>th</sup> Annual Institute of Ecology Graduate Student Symposium, University of Georgia (oral):
  - **\*Andrews, K. M. 2003.** *"Why does the snake cross the road?" is no longer a joke.* Athens, GA.
- 64<sup>th</sup> Annual Meeting of the Association of Southeastern Biologists (poster):
  - **\*Andrews, K. M. 2003.** *Dead or alive: road use by snakes on the Savannah River Site, SC.* Arlington, VA.
- 22<sup>nd</sup> International Symposium on Sea Turtle Biology and Conservation (oral):
  - **\*Andrews, K. M. and H. Gerstung. 2002.** *Investigating post-nesting behavior of adult female hawksbills using Argos satellite data: Initial realities.* Miami, FL.
- Award: 8<sup>th</sup> Annual Institute of Ecology Graduate Student Symposium, University of Georgia (oral):
  - **\*Andrews, K. M. 2001.** *Balancing the agendas of politics, sustainable harvest, and the quality of research data on the behavior of nesting hawksbill sea turtles, Eretmochelys imbricata.* Athens, GA.
  - Honorable Mention for Best Student Paper
- 21<sup>st</sup> International Symposium on Sea Turtle Biology and Conservation -WIDECast (invited oral):
  - **\*Andrews, K. M. and J. I. Richardson. 2001.** *Migrational behavior of hawksbill sea turtles from Argos satellite telemetry tagging of nesting females on Jumby Bay Island, Antigua and Jamaica.* Orlando, FL.

Co-authored presentations provided in Appendix (pg. 30)

### PROFESSIONAL SERVICES AT CONFERENCES

#### Conferences and Societies:

- Lead organizer:
  - 23<sup>rd</sup> Annual Conference of The Wildlife Society – Symposium on The Role of Wildlife Professionals in Transportation Planning. Raleigh, NC. 2016.
  - 21<sup>st</sup> Annual Conference of The Wildlife Society – Workshop on Research and Management of Novel Infectious Diseases in Reptiles and Amphibians. Pittsburgh, PA. 2014.
  - 26<sup>th</sup> Annual Joint Meetings of Ichthyologists and Herpetologists (JMIH) – Special Symposium on Roads and Small Vertebrates. Providence, Rhode Island. 2010.
- Co-organizer:
  - 2021 International Conference on Ecology and Transportation (co-organized with GDOT) – Creating a Playbook for Adapting Drainage Structures into Cost-Effective Wildlife Passages. Virtual.
  - 4<sup>th</sup> Annual Meeting of Southeastern Partners in Amphibian and Reptile Conservation (SEPARC) meeting – Selected speakers for oral presentations. Athens, GA. 2008.
  - 2<sup>nd</sup> Annual Southeastern Ecology and Evolution Conference (SEEC). - Organized and coordinated all Oral Presentations. Athens, GA. 2005.
- Invited Panelist:
  - 2020 Marine Extension and Georgia Sea Grant Summer Meeting - Grants Panel. Virtual. 2020.
  - 2020 Marine Extension and Georgia Sea Grant - Student Onboarding. Virtual. 2020.
  - 2017 Georgia Drone Summit. Athens, GA. 2017.
  - 2015 Youth Ocean Conservation Summit. Skidaway Island, GA. 2015.
- Moderator:
  - 7<sup>th</sup> Annual Meeting of Southeastern Partners in Amphibian and Reptile Conservation (SEPARC) meeting – Roads session. Lake Tiak O'Khata, MS. 2011.
  - 4<sup>th</sup> Annual Meeting of Southeastern Partners in Amphibian and Reptile Conservation (SEPARC) meeting – Development session. Athens, GA. 2008.
  - 2<sup>nd</sup> Annual Southeastern Ecology and Evolution Conference (SEEC). Athens, GA. 2005.
  - 25<sup>th</sup> Annual Symposium on Sea Turtle Conservation and Biology. Freshwater Turtle Symposium. Savannah, GA. 2005.
  - 1<sup>st</sup> Annual Southeastern Ecology and Evolution Conference (SEEC). Atlanta, GA. 2004.
  - 10<sup>th</sup> Annual Institute of Ecology Graduate Student Symposium, University of Georgia. Athens, GA. 2004.
- Judge for student presentations regularly at regional and international meetings (e.g., SEPARC, JMIH, ICOET)

### AWARDS

- 2021 – Gopher Tortoise Council – Conservation Education Award (awarded to the Coastal Ecology Lab)
- 2019 – University of Memphis – Graduate Student Chosen Speaker

- 2018 – One Miles 100 – Honored as a Coastal Steward
- 2016 – Golden Isles YMCA 18<sup>th</sup> Annual Tribute to Women Leaders Honoree
- 2016 – One Hundred Miles 100 – Honored as part of the Georgia Sea Turtle Cooperative (Coastal Stewards category) and AmeriCorps program (Next Generation category)
- 2011 – International Conference on Ecology and Transportation Travel Award for Presenters
- 2011 – Orianne Society Travel Award – Attendance at the 2011 Southeastern Partners in Amphibian and Reptile Conservation (SEPARC) meeting.
- 2009 – Southeastern Partners in Amphibian and Reptile Conservation Travel Support – Attendance at the 2009 International Conference on Ecology and Transportation.
- 2007 – University of Georgia Amazing Student Award – October.
- 2007 – Dean Lindholm Memorial Award. Institute of Ecology. Graduate Student Travel Support – *Investigating effects of development on snake movement patterns and survivorship.*
- 2007 – Southeastern Partners in Amphibian and Reptile Conservation (SEPARC) – Graduate Student Travel Scholarship, Chattanooga, TN.
- 2006 – Savannah River Ecology Laboratory Graduate Fellowship Award. 2006-2007.
- 2006 – Robert Sheldon Memorial Award. Institute of Ecology. Graduate Student Travel Support – *Investigating effects of ecologically conservative residential development on snake movement patterns and survivorship.*
- 2006 – American Society of Ichthyologists and Herpetologists (ASIH) Graduate Student Travel Award. 22<sup>nd</sup> Annual Meeting of Ichthyologists and Herpetologists. New Orleans, LA.
- 2006 – Society for the Study of Amphibians and Reptiles (SSAR) Graduate Student Travel Award. 22<sup>nd</sup> Annual Meeting of Ichthyologists and Herpetologists. New Orleans, LA.
- 2005 – University of Georgia Institute of Ecology Best Student Paper Award – Applied Ecology - *How do highways influence snake movement? Behavioral responses to roads and vehicles.* ASIH (Copeia) 2005.
- 2004 – 1<sup>st</sup> Annual Savannah River Ecology Laboratory Graduate Student Symposium (oral) – see Presentation section.
- 2004 – 20<sup>th</sup> Annual Meeting of Ichthyologists and Herpetologists (oral) - see Presentation section.
- 2003 – Savannah River Ecology Laboratory Safety Excellence in Research Award for observing, handling, and processing large numbers of venomous snakes.
- 2001 – 8<sup>th</sup> Annual Institute of Ecology Graduate Student Symposium, University of Georgia (oral) - see Presentation section.
- Awarded Dean's List in four terms during undergraduate education

<b>PROFESSIONAL AND CIVIC ORGANIZATIONS</b>
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- ABS (Animal Behavior Society)
- ANREP (Association of Natural Resource Extension Professionals)
- ASB (Association of Southeastern Biologists)
- ASIH (American Society of Ichthyologists and Herpetologists)
- AWIS (Association for Women in Science)
- Auxiliary of Veterans of Foreign Wars, Post #7200
- AZA (Association of Zoos and Aquariums)
- Blue Key National Honor Society, UGA Chapter (Inducted April 2007)
- Coastal Wildscapes
- Delta Epsilon Iota Honorary Society

- Diamondback Terrapin Working Group
- Environmental Justice Advisory Board of Glynn County (EJAB)
- ESA (Ecological Society of America)
- GAME (Georgia Association of Marine Educators)
- Georgia Coastal Research Council
- Georgia Sea Turtle Cooperative
- GTC (Gopher Tortoise Council)
- GTI (Gopher Tortoise Initiative)
- HL (The Herpetologists' League)
- Island Managers Forum
- NAACP (National Association for the Advancement of Colored People)
- NOAA Southeast and Caribbean Environmental Justice Community of Practice
- PARC (Partners in Amphibian and Reptile Conservation)
  - SEPARC (Southeastern division)
  - SPARC (Student Partners in Amphibian and Reptile Conservation)
- Satilla Riverkeeper
- Sigma Xi (The Scientific Research Society)
- SCB (Society for Conservation Biology)
- SCSE (South Carolinians for Science Education)
- SERPPAS (Southeast Regional Partnership for Planning and Sustainability) Working Groups
  - At-Risk, Threatened, and Endangered Species
  - Coastal Resilience and Regional Adaptation
  - Prescribed Fire
  - Sentinel Landscapes
- SSAR (Society for the Study of Amphibians and Reptiles)
- STCB (Sea Turtle Conservation and Biology)
- TWS (The Wildlife Society) Working Groups
  - Human Dimensions
  - Spatial Ecology & Telemetry
  - Urban Wildlife
  - Wildlife Diseases
- University of Georgia GSA (Graduate Student Association)
- UGHS (University of Georgia Herpetological Society)
- USCI (Upland Snake Conservation Initiative)
- WIDECAST (Wider Caribbean Sea Turtle Organization)

<b>REFeree OF JOURNALS AND BOOKS</b>
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- Acta Herpetologica
- American Institute of Biological Sciences
- Animal Biotelemetry
- Animal Conservation
- Association of Southeastern Biologists
- Association of Zoos and Aquariums
- Australian Journal of Zoology
- Axios
- Behavioral Ecology and Sociobiology
- Biological Conservation
- Biotropica

- Copeia
- Conservation Biology
- Ecosphere
- Environmental Conservation
- Environmental Education Research
- Global Ecology and Conservation
- Herpetologica
- Herpetological Conservation and Biology
- Herpetological Review
- Human Dimensions of Wildlife
- Integrative and Comparative Biology
- Johns Hopkins University Press
- Journal of Environmental Chemistry and Ecotoxicology
- Journal of Fish and Wildlife Management
- Journal of Herpetology
- Journal of Wildlife Diseases
- Journal of Wildlife Management
- Landscape Ecology
- Phyllomedusa
- PLoS ONE
- Population Ecology
- Society for the Study of Amphibians and Reptiles
- Smithsonian Institution Press
- Sustainability
- Transportation Research Board
- Transportation Research Record
- Tropical Conservation Science
- University of Georgia Press
- Wildlife Research
- Wildlife Society Bulletin

## APPENDICES

### ACTIVE FIELD RESEARCH PROJECTS

#### ***Ecological Research:***

- Baseline wildlife inventory and monitoring to assess priority species and habitats for implementation of the local conservation and management plans, with particular focus on terrestrial and aquatic small vertebrates
- Mark-recapture techniques for amphibians, reptiles, and mammals and management of long-term databases
- Satellite, GPS, and VHF telemetry of reptiles in urban and undeveloped areas
- Habitat fragmentation effects and disease prevalence in wildlife
- Mitigation of surface mining activity on gopher tortoises (*Gopherus polyphemus*) and relocation and management of impacted individuals; post-relocation monitoring of spatial, behavioral, and reproductive ecology of translocated tortoises
- Gopher tortoise burrow use by commensal species, with particular focus on the habits of indigo snakes
- Population ecology, habitat use, ecotoxicology, and human risk perceptions of American alligators (*Alligator mississippiensis*) in southeastern United States, and American crocodiles (*Crocodylus acutus*), and spectacled caiman (*Caiman crocodilus*) in Osa Region, Costa Rica
- Landscape-level movement patterns of eastern indigo snakes (*Drymarchon couperi*) in upland Sandhill habitats in the Coastal Plain of Georgia
- Ecology (habitats and activity) and human interaction assessments of eastern diamondback rattlesnakes (*Crotalus adamanteus*) and other venomous snake species
- Habitat use and monitoring of diamondback terrapins (*Malaclemys terrapin*) along the Georgia coast

#### ***Land Use Planning and Management:***

- Sea level rise monitoring using time-lapsed photography to quantify vulnerability of infrastructure and habitats to tidal surges and inundation
- Transportation infrastructure design, roadside vegetation plans, and effect mitigation through structure implementation and influences driver behavior
- Coastal plains habitat management and restoration for endangered species in temperate and tropical regions
- Design wildlife mitigation and monitoring programs for large-scale development (residential, commercial, industrial)
- Review of and recommendations for residential and commercial development designs

## CO-AUTHOR AND STUDENT PRESENTATIONS AT PROFESSIONAL CONFERENCES

\*denotes presenting author(s)

- 18<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (oral):
  - \*Hancock, B. D., O. P. Thompson, L. M. Paden, and **K. M. Andrews**. 2022. *A comparison of the thermal profiles of translocated and resident gopher tortoises (Gopherus polyphemus) in Georgia*. Virtual.
  - \*Hoog, M. E., **K. M. Andrews**, and K. J. Zemaitis. 2022. *Territories and home range overlap of American alligators in a Coastal Plains ecosystem*. Virtual.
  - \*Thompson, O. P. and **K. M. Andrews**. 2022. *Characterizing the social interactions and vocalizations of gopher tortoises (Gopherus polyphemus) in southeastern Georgia*. Virtual.
- 17<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (oral):
  - \*Chapman, E., B. Jack, **K. M. Andrews**, and T. M. Norton. 2021. *Fine-scale spatial and temporal ecology of Drymarchon couperi through automated telemetry: A pilot study*. Virtual.
  - \*Gulsby, M., S. Walker, O. Thompson, L. M. Paden, and **K. M. Andrews**. 2021. *Adjusting for behavioral competition among gopher tortoise headstarts with corrective husbandry*. Virtual.
  - \*Leavitt, H., O. Thompson, **K. M. Andrews**, and J. Renner. 2021. *Evaluating gopher tortoise use of reclaimed surface mine sites*. Virtual.
- 16<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (poster):
  - \*Gulsby, M. L., **K. M. Andrews**, J. F. Renner, T. Fazio, S. White, and M. Elliott. 2020. *Changing perceptions of wildlife: How collaboration can protect gopher tortoises (Gopherus polyphemus) while maintaining industrial progress*. Nauvoo, AL.
- 2020 Environmental Education Alliance Annual Conference (oral):
  - \*Mascovich, K. A., L. R. Larson, and K. M. Andrews. 2020. *Talking turtles: exploring the relative efficacy of different visitor education programs at Jekyll Island, Georgia*. Jekyll Island, GA.
- 2019 International Conference on Ecology and Transportation (oral):
  - \*Shilling, F. M., **K. M. Andrews**, and K. Thorne. 2019. *Tracking shoreline change for ecosystem and infrastructure adaptation to sea level rise*. Sacramento, CA.
- 17<sup>th</sup> Annual Symposium on the Conservation and Biology of Tortoises and Freshwater Turtles (oral):
  - \*Paden, L. M., and **K. M. Andrews**. 2019. *A spatial assessment of resident and translocated gopher tortoises (Gopherus polyphemus) using GPS loggers*. Tucson, AZ.
- Biology of the Pit Vipers 3 (poster):
  - Colbert, J. E., and \***K. M. Andrews**. 2019. *Detectability and exposure of Crotalus adamanteus on the Georgia coast*. Rodeo, NM.
  - \*Spear, S. F., M. Carvajal, G. Saborio, **K. Andrews**, and C. Orozco. 2019. *Conserving a needle in a haystack: developing a black-headed bushmaster field conservation program*. Rodeo, NM.
- 39<sup>th</sup> International Symposium on Sea Turtle Biology and Conservation (poster):
  - \*Mascovich, K. A., L. R. Larson, and **K. M. Andrews**. 2019. *Talking turtles: exploring the relative efficacy of different visitor education programs at Jekyll Island, Georgia*. Charleston, SC.
- 15<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (poster):

- \*Thompson, O. P., and **K. M. Andrews**. 2019. *Characterizing the social interactions and vocalizations of gopher tortoises* (*Gopherus polyphemus*). Black Mountain, NC.
- 25<sup>th</sup> Annual Meeting of The Wildlife Society (oral):
  - \*Larson, L. R., G. Skupien, K. A. Mascovich, **K. M. Andrews**. 2018. *Designing effective wildlife education programs: empirical evidence from Jekyll Island*. Cleveland, OH.
- 39<sup>th</sup> Annual Gopher Tortoise Council Meeting (poster):
  - \*DeSha, J. N., L. Paden, **K. M. Andrews**. 2018. *Headstarting gopher tortoises from a heavy mineral mine site in southeast Georgia*. Venus, FL.
  - \*Paden, L., and **K. M. Andrews**. 2018. *Gopher tortoises and heavy mineral mining: a mitigation strategy and on-going research*. Venus, FL.
  - \*Thompson, O. P., and **K. M. Andrews**. 2018. *Characterizing the social interactions and vocalizations of gopher tortoises* (*Gopherus polyphemus*). Venus, FL.
- 40<sup>th</sup> Annual Southeastern Recreation Research Conference (oral):
  - \*Larson, L. R., K. A. Mascovich, and **K. M. Andrews**. 2018. *Lights on, or lights off? Hotel guests' response to educational outreach designed to protect nesting sea turtles*. Athens, GA.
- 43<sup>rd</sup> Annual Symposium of the Desert Tortoise Council (oral):
  - \*Paden, L. M., and **K. M. Andrews**. 2018. *Use of modified GPS loggers to monitor resident and translocated gopher tortoises* (*Gopherus polyphemus*) *in southeastern Georgia*. Las Vegas, NV.
- 14<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation:
  - \*Bauer, R. G., G. M. Skupien, **K. M. Andrews**, M. E. Byrne, and T. M. Norton. 2018. *Spatial Patterns of Male American Alligators on a Developed Georgia Barrier Island*. Helen, GA.
  - \*Butler, Z. P. and **K. M. Andrews** (poster). 2018. *Documenting commensal herpetofauna of nine-banded armadillo* (*Dasypus novemcinctus*) *burrows*.
  - \*LaVere, A. A., and **K. M. Andrews** (oral). 2018. *If you give a creep a camera*. Helen, GA.
  - \*Mascovich, K. A., L. R. Larson, and **K. M. Andrews**. 2018. *Comparing the impacts of high- and low-interaction education programs on people's knowledge and behaviors*. Helen, GA.
- 33<sup>rd</sup> Annual Joint Meetings of Ichthyologists and Herpetologists (oral):
  - \*Bauer, R. G., G. M. Skupien, **K. M. Andrews**, and T. M. Norton. 2017. *Spatial patterns of male American alligators on a developed Georgia barrier island*. Austin, TX.
  - \*LaVere, A. A., O. Brenes, and **K.M. Andrews**. 2017. *The cutting edge: A rapid loss of beach front habitat for reptile communities in Costa Rica*. Austin, TX.
  - \*Mascovich, K. A., and **K. M. Andrews**. 2017. *Messages in the sand: Nesting loggerhead sea turtle* (*Caretta caretta*) *crawl behavior on a developed beach*. Austin, TX.
  - \*Parson, K. M., **K.M. Andrews**, T.M. Norton, and J.E. Colbert. 2017. *The influence of habitats on behavior and health of eastern diamondback rattlesnakes* (*Crotalus adamanteus*). Austin, TX.
- 33<sup>rd</sup> Annual Joint Meetings of Ichthyologists and Herpetologists (poster):
  - \*Paden, L., **K. M. Andrews**, C. Candal, and J. F. Renner. 2017. *Use of prescribed fire to increase detectability of gopher tortoise burrows prior to relocation*. Austin, TX.
- 2017 International Conference on Ecology and Transportation (oral):
  - \*Shilling, F. M., D. Waetjen, E. Grijalva, C. Sur, T. Grosholz, **K. M. Andrews**, and A. Ballard. 2017. *Tracking sea level rise impacts on shoreline infrastructure and ecosystems*. Salt Lake City, UT.
- 13<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (oral):

- \*LaVere, A. A., O. Brenes, and **K. M. Andrews**. 2017. *The cutting edge: an erosion study on Playa Tortuga (Ojochal, Costa Rica)*. Little Rock, AR.
- \*Mascovich, K. A., **K. M. Andrews**, L. R. Larson. 2017. *Human dimensions of the Jekyll Island sea turtle project*. Little Rock, AR.
- \*Ondich, B. L., O. Brenes, J. L. Reneker, and **K. M. Andrews**. 2017. *The effects of tidal phases on nesting sea turtle emergences among three beaches*. Little Rock, AR.
- \*Paden, L., **K. M. Andrews**, and J. Renner. 2017. *Gopher tortoise translocation and commensal species mitigation on a heavy mineral mine site*. Little Rock, AR.
- \*Parson, K. M., **K. M. Andrews**, J. E. Colbert, and D. J. Fraser. 2017. *Reproductive observations and body condition assessments of coastal rattlesnakes*. Little Rock, AR.
- 13<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (poster):
  - \*Ballard, A. M., **K. M. Andrews**, and F. M. Shilling. 2017. *Sea level rise monitoring to adapt coastal landscapes and infrastructures*. Little Rock, AR.
  - \*Paden, L., **K. M. Andrews**, C. Candal, and J. F. Renner. 2017. *Use of prescribed fire to increase detectability of gopher tortoise burrows prior to relocation*. Little Rock, AR.
- 38<sup>th</sup> Annual Gopher Tortoise Council Meeting (poster):
  - \*Paden, L., **K. M. Andrews**, C. Candal, and J. F. Renner. 2017. *Use of prescribed fire to increase detectability of gopher tortoise burrows prior to relocation*. Palatka, FL.
- 15<sup>th</sup> Annual Symposium of the Turtle Survival Alliance:
  - \*Haskins, D. L., J. Cochran, **K. M. Andrews**, and T. D. Tuberville. 2017. *Life in the fast lane: differences among three southeastern US semi-aquatic turtle species in their metabolic responses to increased temperature*. Charleston, SC.
- *Invited speaker in special symposium – Response of Amphibians and Reptiles to Anthropogenic Disturbance: 23<sup>rd</sup> Annual Conference of The Wildlife Society (oral):*
  - \*Skupien, G. M. and **K. M. Andrews**. 2016. *Reptiles in an urban rubric: effects, management, and needs*. Raleigh, NC.
- *Invited speaker in special symposium – The Role of Wildlife Professionals in Transportation Planning: 23<sup>rd</sup> Annual Conference of The Wildlife Society (oral):*
  - \*Crawford, B. M., **K. M. Andrews**, D. M. Zailo, J. Maerz, T. M. Norton, and M. Kaylor. 2016. *Integrating ecology, human dimensions, and engineering for mitigating effects on diamondback terrapins on coastal causeways*. Raleigh, NC.
- 23<sup>rd</sup> Annual Conference of The Wildlife Society (poster):
  - \*Colbert, J. E., **K. M. Andrews**, S. J. Castleberry, S. Coleman, C. Jenkins, and J. Thompson. 2016. *Combining live and camera trapping techniques for assessing small mammal populations and behavior*. Raleigh, NC.
  - \*Wiggers, S. and **K. M. Andrews**. 2016. *Taking the throne: Bringing kingsnakes to the forefront of conservation*. Raleigh, NC.
- 2016 Annual Meeting of the Ecological Society of America (poster):
  - \*DeSha, J. N., J. Colbert, **K. Andrews**, S. Coleman, and C. T. Holbrook. 2016. *Effects of prescribed fire on butterflies and ground-dwelling insects in maritime grasslands*. Ft. Lauderdale, FL.
- 32<sup>nd</sup> Annual Joint Meetings of Ichthyologists and Herpetologists (poster):
  - Skupien, G. M., R. G. Bauer, **\*K. M. Andrews**, and T. M. Norton. 2016. *Spatial ecology of the American alligator (Alligator mississippiensis) on Jekyll Island*. New Orleans, LA.
- 36<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation (oral):
  - \*Shamblin, B....**K. M. Andrews**. 2016. *Accounting for site fidelity in reproductive parameter-estimation through subpopulation-scale genetic capture-recapture of loggerhead turtles*. Lima, Peru.
- 12<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (oral):

- \*Ondich, B., **K. M. Andrews**, and S. Wiggers. 2016. *Five years of herp education with the Applied Wildlife Conservation Lab*. Nauvoo, AL.
- \*Parson, K. M., **K. M. Andrews**, J. E. Colbert, and D. J. Fraser. 2016. *Activity patterns and surfacing behaviors of coastal rattlesnakes*. Nauvoo, AL.
- 12<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (poster):
  - \*Paden, L. M. and **K. M. Andrews**. 2016. *Wetland selection and classification for an assessment of Georgia's barrier island freshwater turtles*. Nauvoo, AL.
  - Skupien, G. M., \*R. G. Bauer, and **K. M. Andrews**. 2016. *Spatial ecology of the American alligator (Alligator mississippiensis) on Jekyll Island*. Nauvoo, AL.
  - \*Wiggers, S. and **K. M. Andrews**. 2016. *Taking the throne: Bringing kingsnakes to the forefront of conservation*. Nauvoo, AL.
- 2015 Georgia Coastal Research Colloquium (oral):
  - Skupien, G. M. and \***K. M. Andrews**. 2015. *Wildlife conservation in a developing landscape: Interfacing ecological research and science-based public awareness*. Savannah, GA.
- 13<sup>th</sup> Annual Symposium on the Conservation and Biology of Tortoises and Freshwater Turtles (oral)
  - \*Bauer, R. G., **K. M. Andrews**, L. M. Paden, J. E. Colbert, and T. M. Norton. 2015. *Survival and home range of head started juvenile eastern box turtles*. Tucson, AZ.
- 11<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (oral):
  - \*Bauer, R. G., **K. M. Andrews**, L. M. Paden, J. E. Colbert, and T. M. Norton. 2015. *Survival and home range of head started juvenile eastern box turtles*. Covington, LA.
- 2<sup>nd</sup> Southeast Regional Sea Turtle Network Meeting (oral):
  - \*Ondich, B. L. and **K. M. Andrews**. 2015. *The effects of tidal phase on nesting loggerhead sea turtle emergences, Jekyll Island, Georgia*. Jekyll Island, GA.
- 3<sup>rd</sup> Annual Jekyll Island Green Screen Symposium (Poster):
  - \*Colbert J. E., **K. M. Andrews**, S. Coleman, and J. Thompson. 2015. *Trophic community response to prescribed fire in maritime grasslands*. Jekyll Island, GA.
- 21<sup>st</sup> Annual Conference of The Wildlife Society (oral):
  - \*Skupien, G. M. and **K. M. Andrews**. 2014. *Evaluating the effectiveness of two education programs on participants' attitudes and risk perceptions of the American alligator*. Pittsburgh, PA.
- 36<sup>th</sup> Annual Meeting of The Gopher Tortoise Council (oral):
  - \*Bauer, R. G. and **K. M. Andrews**. 2014. *Survival and home range of head-started juvenile eastern box turtles*. Albany, GA.
  - \*Paden, L. M., **K. M. Andrews**, D. J. Fraser, J. E. Colbert, III, and T. M. Norton. 2014. *Habitat use by eastern diamondback rattlesnakes (Crotalus adamanteus) on a developed barrier island*.
- 34<sup>th</sup> Association of Zoo Veterinary Technicians Annual Conference (poster):
  - \*Ondich, B. L., **K. M. Andrews**, and K. A. Mascovich. 2014. *Long-term activity of loggerhead sea turtles (Caretta caretta) on Jekyll Island, GA, USA: A demographical summary based on 40 Years of tagging on a developed beach*. Jekyll Island, GA.
  - \*Skupien, G. M., **K. M. Andrews**, and T. M. Norton. 2014. *Transmitter placement techniques in wild crocodilians*. Jekyll Island, GA.
- Biology of the Pit Vipers 2 (oral):
  - \*Colbert J. E., III and **K. M. Andrews**. 2014. *Habitat use by eastern diamondback rattlesnakes (Crotalus adamanteus) on a developed barrier island*. Tulsa, OK.
- 34<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation (oral):

- \*White, K. N. and **K. M. Andrews**. 2014. *Spatial distribution of loggerhead sea turtle (Caretta caretta) nesting activity on barrier islands relative to land use*. New Orleans, LA.
- 34<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation (poster):
  - \*Ondich, B. L., K. A. Mascalovich, **K. M. Andrews**. 2014. *A History of Sea Turtle Tagging, Monitoring, and Conservation on Jekyll Island, Georgia, USA*. New Orleans, LA.
- 10<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (oral):
  - \*Skupien, G. M. and **K. M. Andrews**. 2014. *Spatial ecology of the American alligator on Jekyll Island, Georgia*.
  - \*White, K. N. and **K. M. Andrews**. 2014. *Spatial distribution of loggerhead sea turtle (Caretta caretta) nesting activity on barrier islands relative to land use*. Lake Cumberland, KY.
  - \*Zailo, D. M. and **K. M. Andrews**. 2014. *Life in the Fast Lane: Using wildlife ecology and public awareness to reduce conflicts of nesting diamondback terrapins (Malaclemys terrapin) along roads*. Lake Cumberland, KY.
- 10<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (poster):
  - \* Mascalovich, K. A. and **K. M. Andrews**. 2014. *Using beach profiling to guide loggerhead sea turtle (Caretta caretta) nest management protocols on a Georgia barrier island*. Lake Cumberland, KY.
  - \*Ondich, B. L., **K. M. Andrews**, and K. A. Mascalovich. 2014. *Long-term activity of loggerhead sea turtles (Caretta caretta) on Jekyll Island, GA, USA: A demographical summary based on 40 years of tagging on a developed beach*. Lake Cumberland, KY.
- 2<sup>nd</sup> Annual Jekyll Island Green Screen and Research Symposium (poster):
  - \*Mascalovich, K. A. and **K. M. Andrews**. 2014. *Using beach profiling to guide loggerhead sea turtle (Caretta caretta) nest management protocols on a Georgia barrier island*. Jekyll Island, GA.
  - \*Ondich, B. L., **K. M. Andrews**, and K. A. Mascalovich. 2014. *Long-term activity of loggerhead sea turtles (Caretta caretta) on Jekyll Island, GA, USA: A demographical summary based on 40 years of tagging on a developed beach*. Jekyll Island, GA.
  - \*Paden, L. M. and **K. M. Andrews**. 2014. *Invasive herpetofaunal monitoring on Jekyll Island, GA*. Jekyll Island, GA.
  - \*Skupien, G. M. and **K. M. Andrews**. 2014. *Spatial ecology of the American alligator on Jekyll Island, Georgia*. Jekyll Island, GA.
- 6<sup>th</sup> Symposium on the Ecology, Conservation, and Status of Diamondback Terrapins (poster):
  - \*Zailo, D. M., **K. M. Andrews**, and T. M. Norton. 2013. *Devising integrated conservation planning tools to reduce conflicts of diamondback terrapins (Malaclemys terrapin) and roads: initial observations using radio telemetry*. Seabrook Island, SC.
- International Association of Landscape Ecology –United States Regional Association (oral):
  - \*Tuberville, T. D. and **K. M. Andrews**. 2013. *Evaluating vulnerability of Sandhills herpetofauna to climate change*. Austin, TX.
- 2013 Annual Georgia Association of Marine Educators (GAME) conference (oral):
  - \*Skupien, G. M. and **K. M. Andrews**. 2013. *Is that an alligator in the ocean? Integrating research and education to promote the conservation of the American alligator on Jekyll Island*. Jekyll Island, GA.
- 4<sup>th</sup> Box Turtle Workshop (oral):
  - \*Norton, T. M., **K. M. Andrews**, S. E. Nelson, J. E. Colbert, J. Wellehan, and M. Yabsley. 2013. *Connecting eastern box turtle rehabilitation, population health and disease monitoring, education and research*. Asheboro, NC.

- 9<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (oral):
  - \*Colbert, J. E. and **K. M. Andrews**. 2013. *Box turtle survival and home range size: an assessment of headstarting*. Hickory Knob, SC.
  - \*Skupien, G. M. and **K. M. Andrews**. 2013. *Integrating experimental research and education initiatives in the conservation of coastal herpetofauna*. Hickory Knob, SC.
- 9<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (poster):
  - \*Colbert, J. E., **K. M. Andrews**, and T. M. Norton. 2013. *Home range size and survival of juvenile head-started eastern box turtles (Terrapene carolina) on Jekyll Island, GA*. Hickory Knob, SC.
  - \*Quinn, D. P., M. S. Kaylor, T. M. Norton, **K. M. Andrews**, K. A. Buhlmann, and B. A. Crawford. 2013. *A preliminary study of nest mounds and incubators to increase recruitment in the diamondback terrapin (Malaclemys terrapin) on Jekyll Island, GA*. Hickory Knob, SC.
  - \*Skupien, G. M. and **K. M. Andrews**. 2013. *American alligator habitat use and population abundance on Jekyll Island*. Hickory Knob, SC.
  - \*Zailo, D. M., **K. M. Andrews**, and T. M. Norton. 2013. *Radio telemetry at the Jekyll Island Authority Georgia Sea Turtle Center: an overview of attachment methods and rationale*. Hickory Knob, SC.
- The Inaugural Jekyll Island Green Screen and Research Symposium (poster):
  - \*Colbert, J. E., **K. M. Andrews**, and T. M. Norton. 2013. *Home range size and survival of juvenile head-started eastern box turtles (Terrapene carolina) on Jekyll Island, GA*. Jekyll Island, GA.
  - \*Ondich, B. L., \*K. A. Mascovich, and **K. M. Andrews**. 2013. *A history of sea turtle tagging and monitoring on Jekyll Island*. Jekyll Island, GA.
  - \*Quinn, D. P., M. S. Kaylor, T. M. Norton, **K. M. Andrews**, K. A. Buhlmann, and B. A. Crawford. 2013. *A preliminary study of nest mounds and incubators to increase recruitment in the diamondback terrapin (Malaclemys terrapin) on Jekyll Island, GA*. Jekyll Island, GA.
  - \*Skupien, G. M. and **K. M. Andrews**. 2013. *American alligator habitat use and population abundance on Jekyll Island*. Jekyll Island, GA.
  - \*Zailo, D. M., **K. M. Andrews**, and T. M. Norton. 2013. *Radio telemetry at the Jekyll Island Authority Georgia Sea Turtle Center: an overview of attachment methods and rationale*. Jekyll Island, GA.
- The 33<sup>rd</sup> Annual Symposium on Sea Turtle Biology and Conservation (Freshwater Turtle and Tortoise Session; oral):
  - \*Norton, T. M., M. Kaylor, and **K. M. Andrews**. 2013. *Diamondback terrapin (Malaclemys terrapin) Jekyll Island Causeway Conservation Program*. Baltimore, MD.
- The 7<sup>th</sup> Convention of the World Congress of Herpetology (oral):
  - \*Tuberville, T. D. and **K. M. Andrews**. 2012. *Evaluating vulnerability of sandhills herpetofauna to climate change*. Vancouver, British Columbia.
- 8<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (oral):
  - \*Skupien, G. M. and **K. M. Andrews**. 2012. *Investigations of American alligator habitat use and populations in freshwater lagoon systems in urbanizing landscapes*. Falls Creek Falls, TN.
- 25<sup>th</sup> Annual Joint Meetings of Ichthyologists and Herpetologists (poster):
  - \*Tuberville, T. D., \***K. M. Andrews**, J. D. Westervelt, J. Macey, and L. Carlile. 2009. *Using individual-based modeling to guide management of gopher tortoise populations on Fort Stewart Military Installation, Georgia*. Portland, OR.

- ERDC Conference (poster):  
Tuberville, T., **K. M. Andrews**, \*J. D. Westervelt, J. Macey, L. Carlile. 2009. *Using individual behavior-based modeling to guide management of gopher tortoise populations on Fort Stewart Military Installation, Georgia*. Memphis, TN.
- 4<sup>th</sup> Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation (oral):  
Kennedy, P. R. and \***K. M. Andrews**. 2008. *Environmental sustainability in a developing landscape: a day in the life*. Athens, GA.
- 25<sup>th</sup> Annual Symposium on Sea Turtle Conservation and Biology (poster):  
\*Muenz, T. K. and \***K. M. Andrews**. 2005. *The reconciliation of hawksbill (Eretmochelys imbricata) nesting habitat with vegetation islands on Long Island, Antigua, West Indies*. Savannah, GA.
- 2<sup>nd</sup> Annual Southeastern Ecology and Evolution Conference (poster):  
Muenz, T. K. and \***K. M. Andrews**. 2005. *The reconciliation of hawksbill (Eretmochelys imbricata) nesting habitat with vegetation islands on Long Island, Antigua, West Indies*. Savannah, GA.
- 24<sup>th</sup> Annual Symposium on Sea Turtle Conservation and Biology (poster):  
\*Richardson, J. I., R. Bjorkland, \*P. Mason, D. B. Hall, Y. Cai, **K. M. Andrews**, and R. Bell. 2004. *Seventeen years of saturation tagging data reveal a significant increase in nesting hawksbill turtles (Eretmochelys imbricata) on Jumby Bay, Long Island, Antigua, West Indies*. Costa Rica, C. A.
- 87<sup>th</sup> Annual Meeting of Ecological Society of America (poster):  
\*Muenz, T. K. and **K. M. Andrews**. 2002. *The recovery of nesting habitat with vegetation islands: Conservation challenges for the hawksbill sea turtle, Eretmochelys imbricata, on Long Island, Antigua, West Indies*. Tucson, AZ.
- 22<sup>nd</sup> International Symposium on Sea Turtle Biology and Conservation (poster):  
\*Muenz, T. K. and \***K. M. Andrews**. 2002. *The recovery of nesting habitat: A proactive approach for conservation of the hawksbill sea turtle, Eretmochelys imbricata, Long Island, Antigua, West Indies*. Miami, FL.