AMANDA A. HAVERLAND

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EDUCATION

Texas State University, San Marcos, TX

- **Ph.D. in Aquatic Resources and Integrative Biology** *(August 2019)*
  - Dissertation: *Determining the status and distribution of the Eastern Black Rail (Laterallus jamaicensis) in coastal Texas*
  - Advisors: Dr. M. Clay Green & Dr. Floyd Weckerly
- **M.S. in Wildlife Ecology** *(December 2014)*
  - Thesis: *The impact of human disturbance on the foraging ecology of Green Herons (Butorides virescens)*
  - Advisor: Dr. M. Clay Green

University of Texas at Dallas, Richardson, TX

- **B.A. in Art & Technology** *(May 2005)*

PROFESSIONAL EXPERIENCE

American Bird Conservancy *(September 2019 – Present)*

Southern Great Plains Science Coordinator *(July 2021 – Present)*

- Manage and analyze data for decision support tool modeling grassland bird response to woody plant encroachment.
- Develop R scripts, perform statistical analyses, create maps, and organize science team meetings.
- Write technical reports and progress updates.
- Provide science support for several Migratory Bird Joint Ventures.

Grassland Conservation Associate *(Sept. 2019 – July 2021)*

- Conducted a gap analysis for the Oaks and Prairies Joint Venture.
- Surveyed agencies across North America on grassland conservation programs.
- Developed communications tools including reports, ArcGIS StoryMaps, and presentations.

Texas State University, San Marcos, TX *(January 2023 – Present)*

Lecturer - Wildlife Biology

- Teach undergraduate and graduate courses, including *Techniques of Wildlife Management* and *Ornithology*.

National Audubon Society *(June 2019 – October 2019)*

Seasonal Bird Survey Technician

- Conducted acoustic monitoring surveys for Eastern Black Rail.
- Processed bioacoustical data using a custom-built recognizer for presence/absence detection.

San Marcos Aquatic Resources Center *(May 2019 – September 2019)*

SCA AmeriCorps Conservation Intern

- Assisted U.S. Fish & Wildlife Service with endangered Texas wild rice propagation.
- Conducted data collection, site maintenance, and volunteer coordination.

FIELD & RESEARCH EXPERIENCE

Texas State University, San Marcos, TX

Doctoral research January 2015 – May 2019

- Established working relationships with federal, state and NGO managers at five refuges (USFWS, TPWD and The Nature Conservancy properties) along the Texas Gulf coast to conduct surveys.
- Hired, trained, and supervised 11 field technicians and assistants.
- Developed survey protocol for Black Rails, planned and implemented large-scale population surveys.
- Conducted hundreds of habitat and vegetation assessments in remote, harsh and treacherous conditions (venomous snakes, intense heat and mosquitoes).
- Conducted nocturnal mark/recapture surveys and banded over 100 Yellow Rails (*Coturnicops noveboracensis*) and Black Rails.
- Affixed radio transmitters to 16 Black Rails and tracked birds via radio telemetry for home range study.
- Deployed and monitored 4 autonomous recording units and analyzed audio by creating a song recognizer to determine Black Rail peak vocalizing times.

- Created a species distribution model for Black Rails using occupancy modeling and ArcMap.
- Prepared quarterly and annual technical reports for duration of project for the Texas Comptroller and TPWD.

Master thesis research April – August 2013 & 2014

- Conducted >2,600 minutes of focal observations of Green Herons to delineate time budgets and relate to level of human disturbance.
- Captured Green Herons (via net gun) and banded (USGS and color band) in order to identify individuals.
- Awarded research grant for $1,000 from the Texas Ornithological Society.

TECHNICAL SKILLS

- **Software:** ArcGIS Pro, Kaleidoscope Pro, Presence, MS Office Suite, QuickBooks
- **Programming:** Program R, Shiny apps, Google Earth Engine, Java, C++
- **Other:** Database management, web design, social media, image & video editing

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FIELD SKILLS & EXPERIENCES

- Avian point counts, nest-box monitoring, bird banding (*n* >200), mist-net set up and extraction of bats and birds, small mammal trapping (Sherman and Tomahawk traps), avian museum specimen preparation, deer spotlight surveys
- Habitat and vegetation sampling, telemetry tracking, radio transmitter attachment, autonomous recording units (ARUs)
- Orienteering, GPS navigation, UTV operation, wilderness backpacking

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PRESENTATIONS

GOT Birds? Grassland Outcomes Tool for Birds (GOT Birds) to provide decision support for conservation actions (oral). American Ornithological Society. Estes Park, CO. Oct. 2025

Winter interspecific density relationships between Black Rails and Yellow Rails in the context of fire in coastal Texas (oral). The Wildlife Society meeting, virtual, Nov. 2021.

Internal assessment of state-level grassland conservation programs to support full annual cycle grassland bird conservation (poster). Texas Chapter of the Wildlife Society meeting, Corpus Christi, TX. Feb. 2020.

Chasing Black Rails along the Texas coast (oral). Texas Black Rail Working Group meeting, Gulf Coast Bird Observatory, Lake Jackson, TX. Aug. 2018.

Habitat & home range of the Eastern Black Rail in Texas (oral). Texas Black Rail Working Group, online seminar. Nov. 2017.

Chasing shadow birds: determining the Black Rail's distribution in Texas (oral). The Waterbird Society Annual Meeting, Reykjavik, Iceland. Aug. 2017.

Needle in a marsh-haystack: finding Black Rails in Texas (oral). Texas Black Rail Working Group meeting, Gulf Coast Bird Observatory, Lake Jackson, TX. Jan. 2017.

Ghosts in the marsh: determining the status of the Eastern Black Rail in Texas (oral). International Research Conference, San Marcos, TX. Nov. 2016

Mud, sweat, and skeeters: determining the status of the Eastern Black Rail in Texas (oral). The Waterbird Society Annual Meeting, New Bern, NC. Sept. 2016.

Species distribution models for Black Rail populations in Texas (poster). South East Partners in Flight Meeting, Lafayette, LA. Nov. 2015.

The impact of human disturbance on the foraging ecology of Green Herons (poster). AOU-COS-SCO Joint Meeting, Estes Park, CO. Sept. 2014.

The impact of human disturbance on the foraging and nesting ecology of Green Herons (poster)**.** AOU-COS Meeting, Chicago, IL. Sept. 2013.

PUBLICATIONS

Haverland, A.A., and M.C. Green. 2022. Longevity and site fidelity of a banded Green Heron (*Butorides virescens*) in Texas, USA. Journal of Heron Biology and Conservation 7:2. www.HeronConservation.org/JHBC/vol07/art02/.

Butler, C.J., T.W. Olsen, B. Kephart, J.K. Wilson, **A.A. Haverland**. 2022. Interannual winter site fidelity for Yellow and Black Rails. Diversity, 14, 357. https://doi.org/10.3390/d14050357.

Haverland, A.A., M.C. Green, F.G. Weckerly, and J.K. Wilson. 2021. Eastern Black Rail (*Laterallus jamaicensis jamaicensis)* home range and habitat use in late winter and early breeding season in coastal Texas. Waterbirds, 44(2): 222-233.

Fitzgerald, J.A., C. Artuso, E.K. Boggess, K.A. Brazil, J.J. Giocomo, A.R. Gramza, **A.A. Haverland**, D.T. Jones-Farrand, N.D. Muenks, K.R. Myers, K. Rezac, K.R. VanBeek, and B. White. 2021. A roadmap for recovering species of greatest conservation need in the Mississippi flyway. American Bird Conservancy. 20 pages.

McGowan C.P., N.F. Angeli, W.A. Beisler, C. Snyder, N.M. Rankin, J.O. Woodrow, J.K. Wilson, E. Rivenbark, A. Schwarzer, C.E. Hand, R. Anthony, R.K. Griffin, K. Barrett, **A.A. Haverland**, N.S. Roach, T. Schneider, A.D. Smith, F.M. Smith, J.D.M. Tolliver, and B.D. Watts. 2020 Linking monitoring and data analysis to predictions and decisions for the range-wide Eastern Black Rail status assessment. Endangered Species Research 43:209-222. https://doi.org/10.3354/esr01063.

Tolliver, J.D.M., **A.A. Moore**, M. C. Green, and F. W. Weckerly. 2018. Coastal Texas Black Rail population states and survey effort. The Journal of Wildlife Management. https://doi.org/10.1002/jwmg.21589.

Moore, A.A., M.C. Green, D.G. Huffman, and T.R. Simpson. 2016. Green Herons (*Butorides virescens*) in an Urbanized Landscape: Does Recreational Disturbance Affect Foraging Behavior? The American Midland Naturalist, 176(2):222-233.

EXTRACURRICULAR & VOLUNTEER WORK

- **City of San Marcos Discovery Center:** Bird hike leader *(2024 – 2025)*
- **Friends of Balcones NWR:** Technical support *(2020 – Present)*
- **Waterbird Society:** Outreach & Communications Co-chair *(2016 – 2025)*
- **Playa Lakes Joint Venture:** Grassland bird surveys *(2023)*
- **Audubon Society:** Christmas Bird Counts *(Annually since 2014)*
- **Natural Resources Dept., Camp Bullis:** Deer spotlight & bird surveys *(2015 – 2018)*
- **City of San Antonio & Austin:** Black-capped Vireo & Golden-cheeked Warbler surveys *(2015 – 2016)*
- **Natural Resources Department, Camp Bullis Military Base**, TX: deer spotlight surveys, bird surveys *(2015 – 2018)*
- **The Nature Conservancy:** habitat surveys *(2014)*
