

# Mandi Gordon

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## EDUCATION

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<b>PH.D. ECOLOGY AND CONSERVATION BIOLOGY</b>	Texas A&M University (TAMU)	Ongoing
<b>M.S. BIOLOGY</b>	Georgia Southern University (GSU) ( <a href="#">Link to thesis</a> )	2010
<b>B.S. MARINE BIOLOGY</b>	Texas A&M University at Galveston (TAMUG)	2007

## PROFESSIONAL BACKGROUND

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- Senior Biologist** Jul 2016 – *Present*  
Environmental Institute of Houston, University of Houston-Clear Lake (EIH-UHCL) – Houston, TX
- Management of state-wide monitoring studies in water quality, population dynamics, and organismal health with emphasis on endangered, threatened, species of greatest conservation need, and species of concern
  - Coordination of field activities, personnel, private landowner permissions, and permitting
  - Procurement of grant funds as PI, lead-PI or co-PI; data management; reporting and publication of findings
- National Trainer** Mar. – May 2018, 2019, 2023  
Great Lakes Environmental Center (GLEC) – Athens, GA; Folsom, CA; Jefferson, TX; Kansas City, MO
- Trainer and evaluator in U.S. Environmental Protection Agency (USEPA) Regions 6, 7, and 9
  - Emphasis on training protocols for standardized operating procedures in aquatic ecology and habitats
- Senior Research Associate** May 2013 – Jun 2016  
EIH-UHCL – Houston, TX
- Led field teams in state-wide studies related to water quality, population dynamics, and organismal health
  - Data compilation for entry, QA/QC, and analyses; developed final reports for landowners, permits, stakeholders, and related projects on water quality, population dynamics, and organismal health
  - Assisted in development of proposals and project plans to procure funds for continued research activities
- Research Associate** Feb 2011 – Aug 2012  
EIH-UHCL – Houston, TX
- Field data collection; data entry/QA/QC; developed components of technical reports
  - General maintenance of equipment for various projects
- Graduate Assistant – Research & Teaching** Jan 2008 – Dec 2010  
Department of Biology; GSU – Statesboro, GA Jun 2008–Dec 2010  
Vertebrate Comparative Physiology and Eco-Morphology Lab; TAMUG – Galveston, TX Jan 2008–May 2008
- GSU: developed, managed, and completed thesis project with emphasis on field & lab analyses; instructor for Environmental Science and Microbiology labs; supplemental instructor for Genetics courses
  - TAMUG: grader for Natural History of Vertebrates course; assisted with lab setup, tear down, and exams
- Undergraduate Research Assistant & Research Fellow** Aug 2005 – May 2008  
Sea Turtle and Fisheries Ecology Research Lab (STFERL); TAMUG – Galveston, TX May 2007–May 2008  
Texas Institute of Oceanography (TIO) – Galveston, TX Oct 2006–Jun 2007  
Vertebrate Comparative Physiology and Eco-Morphology Lab (Vert. Eco.); TAMUG – Galveston, TX Aug 2005–May 2008
- STFERL: assisted in seasonal sea turtle netting surveys along Texas and Louisiana coast
  - TIO: proposed, performed, and presented independent undergraduate research project
  - Vert. Eco.: managed histology lab and assisted graduate students on various projects
- Undergraduate Student Worker** Jan 2005 – Dec 2007  
Marine Biology Department, TAMUG – Galveston, TX
- Supply procurement, departmental file organization, handling confidential records, scheduling, assistance with budgetary balancing; maintained fish tanks and assisted laboratory aides with set up and tear down

## SELECT RESEARCH GRANTS

*Format for following:* Contract Term; Contract Title; Funding Agency; Role in Project (Contract No.; Contract Amount)

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### **Awarded (PI, Lead-PI, or Co-PI cumulative: \$1.37M)**

- 2023-26 Microplastic Distribution and Impacts to Diamond-backed Terrapin, Highlighting Public Education and Future Effects of Sea-Level Rise. Matagorda Bay Mitigation Trust. Lead PI. (\$499,999.91).
- 2020-23 Baseline Study of Alligator Snapping Turtle (*Macrochelys temminckii*) Population Viability in Texas Watersheds. Texas Comptroller of Public Accounts. Co-PI. (Contract No. 21-7219BG; \$399,646).
- 2019-23 Distribution and Habitat Associations of the Western Chicken Turtle (*Deirochelys reticularia miaria*) in Texas. Texas Comptroller of Public Accounts. Co-PI. (Contract No. 20-6997BG; \$314,873).
- 2021 Preliminary Development of Aquatic Turtle Aerial and eDNA Survey Methods in the Sabine River Basin. Sabine River Authority. PI. (Contract No. 2021-001; \$24,975.10).
- 2016-17 Continued Population Monitoring of Texas Diamondback Terrapin (*Malaclemys terrapin littoralis*) in Lower Galveston Bay. Texas Herpetological Society Grants-in-Aid. Co-PI. (\$500 mini-grant).
- 2014-15 Population Survey of the Texas Diamondback Terrapin (*Malaclemys terrapin littoralis*) in San Antonio Bay, Matagorda Bay, and Sabine Lake. Texas Parks and Wildlife Department Species Wildlife Grant. Co-PI. (Contract No. 447483; \$29,418).
- 2014 Tracking Incidence of Fibropapilloma Virus in Texas' Green Sea Turtle (*Chelonia mydas*) Population. Texas State Aquarium. Co-PI. (\$20,000).
- 2013-21 Population Ecology and Demographics of Texas Diamondback Terrapin (*Malaclemys terrapin littoralis*) (ongoing long-term monitoring). Various sources & UHCL-EIH match. Co-PI. (\$75,239 cumulative).
- 2008-10 Thermal Effects on Reproductive Physiology of Freshwater Turtles. University and Professional Society Mini-Grants. PI. (\$2,700 cumulative).
- 2006-07 Functional Morphology of Inking Behavior in Pygmy and Dwarf Sperm Whales (*Kogia breviceps* and *K. sima*). University and Professional Society Mini-Grants. Co-PI (\$1,000 cumulative).

### **Awarded (Project Management cumulative: \$4.27M)**

- 2021-22 Devil's River Minnow (*Dionda diaboli*) Relocation in San Felipe Creek, Del Rio, Texas. CP&Y, Inc. Project Manager (Contract No. C21252; \$46,950).
- 2016-27 National Aquatic Resource Surveys – Texas (*includes National Wetland, Lakes, Rivers & Streams, and Coastal Condition Assessments*). Texas Commission on Environmental Quality. Project Manager and Co-Project Manager (Umbrella Contract Nos. 582-23-40132, 582-18-80214, 582-13-31385; \$3,068,516 cumulative).
- 2020 National Coastal Condition Assessment – Louisiana. Great Lakes Environmental Center. Project Manager (Contract No. 16218; \$440,000).
- 2017 Biological Monitoring – Red River Watershed. Red River Authority. Co-Project Manager (Contract K-17-00948; \$55,000).
- 2013-23 Clean Rivers Program, Surface Water Quality Monitoring, and Special Study Sampling for Basin 11 and 13 Watershed Protection Plans. Houston-Galveston Area Council. Co-Manager (\$525,493 cumulative).
- 2013-15 National Lakes Assessment Data Analysis. Texas Commission on Environmental Quality. Co-Project Manager (\$50,000).
- 2011-12 Texas Nutrient Criteria Developmental Support Project. Texas Commission on Environmental Quality. Co-Project Manager (Contract No. 582-10-90477; \$137,745).

## ADDITIONAL PROJECT EXPERIENCE

*Format for following: Project duration; Project short title (funding agency initials); Role in project*

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2018-2019	Bio-indicators of Freshwater Inflow, Trinity Delta (GBEP)	<i>Field Team Lead</i>
2018-2019	Refinement of Flow Standards for the Brazos Estuary (TWDB)	<i>Field Team Lead</i>
2017-2019	Basin 11 & 13 Flow Validation & Biological Monitoring (H-GAC)	<i>Field Team Lead</i>
2017	Biological Monitoring of the Tres Palacios River (NWF)	<i>Field Team Lead</i>
2016-2018	Population Distribution & Status of Saltmarsh Topminnow (USFWS)	<i>Field Team Lead</i>
2016-2017	Water Quality & Biological Monitoring of the Trinity River (NWF)	<i>Field Team Lead</i>
2016-2017	Brazos Basin Flow Monitoring Study (TWDB)	<i>Field Assistant</i>
2016-2017	<i>Rangia</i> Sampling & Population Assessment (NWF)	<i>Field Assistant</i>
2015	National Coastal Condition Assessment - Texas (USEPA/TCEQ)	<i>Field Crew Member</i>
2014-2015	Brazos Basin Environmental Flow Validation & Estuary Response (TWDB)	<i>Field Team Lead</i>
2014-2015	DermaWatch Oyster Monitoring Program (TAMU)	<i>Field Assistant</i>
2013-2014	National Rivers and Streams Assessment - Texas (USEPA/TCEQ)	<i>Field Crew Member</i>
2013-2014	Cedar Bayou Watershed Water Quality Monitoring Project (HGAC)	<i>Field Assistant</i>
2013-2014	San Bernard Watershed Water Quality Monitoring Project (HGAC)	<i>Field Assistant</i>
2013	Bycatch Mortality Study on Texas Diamondback Terrapin (TPWD/USFWS)	<i>Field Assistant</i>
2013-Present	Galveston Bay Dolphin Monitoring Program (partnered with GBF)	<i>Boat Captain</i>
2011-2014	UHCL Created Stormwater Treatment Wetland Project (TCEQ/GBEP)	<i>Field Assistant</i>
2011-2012	Comprehensive Turbidity Study of Harris County (HCFCD)	<i>Field Team Lead</i>
2011-2012	Cedar Bayou Biological Monitoring Project (HGAC)	<i>Field Team Lead</i>
2011-2012	Springwood Development Project (HCFCD)	<i>Field Team Lead</i>
2011	National Wetland Condition Assessment (USEPA/TCEQ)	<i>Field Crew Member</i>
2011	Recreational Use Attainability Assessment – San Bernard (TCEQ)	<i>Field Crew Member</i>
2011-Present	Texas Clean Rivers Program (HGAC)	<i>Field Team Lead</i>
2010	Reproductive Biology of American Alligators (GSU)	<i>Field Crew Member</i>
2009-2010	Hormonal Cycles of Captive Radiated Tortoises (GSU)	<i>Field Crew Member</i>
2009-2010	Reproductive Biology of Alligator Snapping Turtles (GSU)	<i>Field Crew Member</i>
2008-2009	Nesting Physiology & Hatchling Success of Gopher Tortoises (GSU)	<i>Field Crew Member</i>
2007-2011	Long-term Monitoring of Juvenile Sea Turtles in Texas (STFERL-TAMUG)	<i>Field Crew Member</i>
2007	Ontogeny of Bite Force in Loggerhead Sea Turtles (TAMUG)	<i>Data Analyst</i>

## PUBLICATIONS AND PROCEEDINGS

ORCID ID: 0000-0002-4576-7913; average Journal Impact Factor (JIF) for peer-reviewed publications = 3.22 (based on time of submission); hyperlinks provided in publication titles. \*Denotes submission by student or mentee

### In Print (Peer-Reviewed)

- Gordon, M.L.**, S. Curtis, S. Whitley, S. Robertson, G. Weiberg, K. Strickland, and J.W. Oakley. *In press*. Updated fish species inventory for upper San Felipe Creek, Del Rio, Val Verde County, Texas, USA. *The Southwestern Naturalist* (JIF = 0.22).
- Gordon, M.**, D.J. Bontrager, J. Watson, T. Corbett, C. Crawford, C. Franklin, B. Kirby, E. Munscher, V. Ricardez, and A. Tuggle. 2023. [Using local ecological knowledge to document distribution and temporal patterns of \*Macrochelys temminckii\* in Texas](#). *Biology and Conservation of Alligator Snapping Turtles (Macrochelys)*; *The Southeastern Naturalist*. 22(Special Issue 12): 171–196 (JIF = 0.57).
- Carr, J.L., J. Terry, D. Ligon, K.M. Enge, C.J. Krueger, T.M. Thomas, G. Brashear, G.R. Johnson, **M. Gordon**, G. Zwicky, E.P. Hill, D.J. Stevenson, and D.A. Steen. 2023. [Nesting emergences and other terrestrial movements of \*Macrochelys\* \(Testudines: Chelydridae\)](#). *Biology and Conservation of Alligator Snapping Turtles (Macrochelys)*; *The Southeastern Naturalist*. 22(Special Issue 12): 378–387 (JIF = 0.57).

- Glorioso, B., J. Carr, C. Franklin, **M. Gordon**, A. Johnson, E. Kessler, E. Munscher, L. Pearson, and V. Ricardez. 2023. [Condition and coloration of lingual lures of Alligator Snapping Turtles](#). *Biology and Conservation of Alligator Snapping Turtles (Macrochelys); The Southeastern Naturalist*. 22(Special Issue 12): 429–439 (JIF = 0.57).
- Metz, T.L., **M. Gordon**, M. Mokrech, G. Guillen. 2020. [Movements of juvenile Green turtles \(\*Chelonia mydas\*\) in the nearshore waters of the northwestern Gulf of Mexico](#). *Frontiers in Marine Science*. 7: 647. DOI: 10.3389/fmars.2020.00647 (JIF = 4.77).
- Bjorndal, K.A., A.B. Bolten, [and 70 others, including **A.L. Gordon**]. 2017. [Ecological regime shift drives declining growth rates of sea turtles throughout the west Atlantic](#). *Global Change Biology*. 23: 4556–4568 (JIF = 13.21).

### In Print (Editorial Review)

- \*Hughes, N., **M. Gordon**, S. Bullard, A. Alvarez, D.R. Bontrager, D. Davidson, D. DeChellis, K. Garcia, B.G. Giles, R. Gray, J. Kittle, I. Marzullo, T. McKenzie, J. Nagro, A. Puzon, S. Schrock, B. Stevenson, T. Thomisee, M. VanBemmel, J. Welch, H. Welshoff, E. Yargeau, E.C. Munscher, A. Tuggle, J. Watson, T. Corbett, and D. Rosenbaum. 2023. [Aquatic turtle county records from trapping surveys in east Texas, USA](#). *Herpetological Review*. 54(1):84–86. (JIF = 0.22).
- \*Hughes, N., **M. Gordon**, J. Nagro, E. Yargeau. 2022. [Nerodia fasciata confluens \(Broad-banded Watersnake\)](#). Geographic Distribution Update. *Herpetological Review* 53(3):446 (JIF = 0.28).
- Gordon, M.**, G.J. Guillen, C.J. Franklin, and V. Ricardez. 2021. [Malaclemys terrapin littoralis \(Texas Diamond-backed Terrapin\) – Malocclusion](#). *Herpetological Review* 52(4): 87–848 (JIF = 0.28).
- Alleman, B.J, R.E. Byrne, S.G. Curtis, **M.L. Gordon**, G.J. Guillen. 2015. [Graptemys pseudogeographica kohnii \(Mississippi Map Turtle\)](#). Geographic Distribution Update. *Herpetological Review*. 46: 565 (JIF = 0.28).

### SELECT TECHNICAL REPORTS

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- Gordon, M.**, B. Giles, K. Garcia, J.J. Apodaca, D.R. Bontrager, J. Kittle, E. Munscher, J. Oakley, T. Sankey, A. Tuggle, and G. Guillen. 2023. [Baseline study of Alligator Snapping Turtle \(\*Macrochelys temminckii\*\) population viability in Texas watersheds. Final Report](#). (Report No. EIH23-002). Prepared for the Texas Comptroller of Public Accounts (Contract 20-6997BG). 133 pp.
- Gordon, M.**, J. Nagro, D. DeChellis, J.J. Apodaca, D. Bush, M. Mokrech, J. Oakley, L. Speight, B. Stevenson, J. Welch, and G. Guillen. 2023. [Distribution and habitat association of Western Chicken Turtles \(\*Deirochelys reticularia miaria\*\) in Texas. Final Report](#). (Report No. EIH23-001). Prepared for the Texas Comptroller of Public Accounts (Contract 20-6997BG). 107 pp.
- Gordon, M.** and J. Oakley. 2022. [San Felipe creek restoration project: Devils River Minnow \(\*Dionda diaboli\*\)](#). EIH Report 22-001, 11pp.
- Gordon, M.L.**, J. Nagro, M. Mokrech, J. Oakley, and G. Guillen. 2021. [Preliminary development of aquatic turtle aerial and eDNA survey methods in the Sabine River Basin](#). EIH Report 21-003. 28pp.
- Guillen, G., J. Oakley, C. Scanes, and **M. Gordon**. 2019. [Texas coast-wide characterization of the saltmarsh topminnow \(\*Fundulus jenkinsi\*\)](#). EIH Report 19-001. 95 pp.
- Oakley, J.W., **M. Gordon**, and G. Guillen. 2018. [Little White Oak Bayou at Trimble Rd. biological monitoring summary packet](#). Houston-Galveston Area Council. Houston, TX, 27 pp.
- Oakley, J., **M. Gordon**, G. Guillen. 2017. [Biological monitoring summary packet: Mill Creek at FM 149](#). Houston-Galveston Area Council. Houston, TX. 46 pp.
- Oakley, J., **M. Gordon**, G. Guillen. 2017. Biological monitoring summary packets: [Wichita River at FM 810](#) and [Beaver Creek at FM 2326](#). Red River Authority. Wichita Falls, TX.
- Guillen, G., **A. Gordon**, J. Oakley, M. Mokrech. 2016. [Trinity River delta and upper Trinity Bay \*Rangia\* population assessment](#). National Wildlife Federation. Austin, TX. 58 pp.

- Guillen, G., **M. L. Gordon**, J. Oakley, M. Mokrech, B. Alleman, R. George, D. Bush. 2015. [Population survey of the Texas Diamondback Terrapin, \*Malaclemys terrapin littoralis\*, in San Antonio Bay, Matagorda Bay, and Sabine Lake](#). Texas Parks and Wildlife Department. Austin, TX. 194 pp.
- Metz, T., **M. L. Gordon**, G. Guillen. 2014. [Tracking the incidence of fibropapilloma virus in Texas' green sea turtle \(\*Chelonia mydas\*\) population](#). Texas State Aquarium. Corpus Christi, TX. 6 pp.
- Guillen, G., **A. Moss**, J. Oakley, S. Curtis. 2014. Biological monitoring summary packets: [Cedar Bayou Above Tidal at FM 1942](#) and [Cedar Bayou Above Tidal at US 90](#). Houston-Galveston Area Council. Houston, TX.
- Guillen, G., M. Mokrech, J. Oakley, **A. Moss**. 2014. [Armand Bayou water quality improvement grant: UHCL created stormwater treatment wetland](#). Galveston Bay Estuary Program. 137 pp.
- Guillen, G., J.W. Oakley, **A. Moss**, M. Shepard. 2013. [Aquatic Life Monitoring study report](#). Houston-Galveston Area Council and TCEQ. Houston, TX: EIH. 68 pp.
- Guillen, G., **A. Moss**, J. Oakley. 2013. Biological monitoring summary packets: [Cedar Bayou Above Tidal at FM 1942](#) and [Cedar Bayou Above Tidal at US 90](#). Houston-Galv. Area Council. Houston, TX.
- Guillen, G., J.W. Oakley, M. Shepard, **A.L. Moss**, K. Vale. 2012. [Springwoods subdivision study](#). Harris County Flood Control District. Houston, TX: EIH. 81 pp.
- Guillen, G., M. Mokrech, J.W. Oakley, M. Shepard., K. Vale, **A.L. Moss**. 2012. [Harris County Texas comprehensive turbidity study results report](#). Harris County Flood Control District. Houston, TX: EIH. 141 pp.

## SELECT PRESENTATIONS AND INVITED TALKS

*\*Denotes presentation by student or mentee*

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- Munscher, E.C., **M. Gordon**, T. Sankey, A. Tuggle, A. Walde, K. Garcia, and B. Giles. 2023. [Hidden in plain sight: Alligator Snapping Turtle \(\*Macrochelys temminckii\*\) populations within urban waterways of Houston, Texas, Harris County, USA](#). 2023 International Urban Wildlife Conference. Washington, D.C. Presentation.
- \*DeChellis, D., M. Mokrech, **M. Gordon**, and G. Guillen. 2023. [Influence of ecological and anthropogenic factors on the distribution and habitat associations of Western Chicken Turtles \(\*Deirochelys reticularia miaria\*\) in Texas](#). Cypress and Sulphur Basin Clean Rivers Program Stakeholder Annual Meeting. Virtual presentation.
- \*DeChellis, D., M. Mokrech, **M. Gordon**, and G. Guillen. 2023. [Species distribution modeling for the Western Chicken Turtle \(\*Deirochelys reticularia miaria\*\) in Texas](#). Houston Regional Ecology and Evolution Symposium. Presentation.
- \*Garcia, K., **M. Gordon**, and G. Guillen. 2023. [Evaluation of anthropogenic disturbances of Alligator Snapping Turtles \(\*Macrochelys temminckii\*\)](#). Cypress and Sulphur Basin Clean Rivers Program Annual Meeting. Virtual presentation.
- Gordon, M.**, J. Nagro, D. DeChellis, L. Collins, H. Nelson, J.J. Apodaca, J. Oakley, and G.J. Guillen. 2023. [Use of environmental DNA in wetland habitats for detecting cryptic species: A case study on the Western Chicken Turtle \(\*Deirochelys reticularia miaria\*\)](#). 2023 Texas Chapter of The Wildlife Society. Houston, TX. Presentation
- Gordon, M.** 2022. [Northeast Texas aquatic turtle surveys: Western Chicken Turtles and Alligator Snapping Turtles](#). Sulphur River Basin Authority and Northeast Texas Municipal Water District Stakeholder Meetings. Virtual presentation.
- \*Nagro, J., **M. Gordon**, M. Mokrech, and G. Guillen. 2022. [Birds eye view: Preliminary use of small unmanned aerials systems \(sUAS\) for aquatic turtle surveys](#). 125<sup>th</sup> Texas Academy of Science Meeting. Houston, TX. Presentation
- \*Garcia, K., **M. Gordon**, E. Munscher, A. Tuggle, C. Franklin, V. Ricardez, and G. Guillen. 2022. [Do anthropogenic stressors affect distribution of Alligator Snapping Turtles \(\*Macrochelys temminckii\*\) in Texas? Preliminary study design](#). 125<sup>th</sup> Texas Academy of Science Annual Meeting. Houston, TX. Presentation.
- \*DeChellis, D., G. Guillen, and **M. Gordon**. 2022. [Preliminary analyses of landscape-scale impacts on Western Chicken Turtles in Texas](#). 125<sup>th</sup> Texas Academy of Science Annual Meeting. Houston, TX. Presentation.
- Gordon, M.**, L. Speight, A. Collins. 2022. [Nose to the ground: Using detector dogs to sniff out the cryptic Western Chicken Turtle \(\*Deirochelys reticularia miaria\*\)](#). 125<sup>th</sup> Texas Academy of Science Annual Meeting. Houston, TX. Presentation (presented by D. DeChellis).



- Gordon, M.** 2021. [East Texas aquatic turtle surveys: Western Chicken Turtles and Alligator Snapping Turtles](#). Cypress Basin CRP Stakeholder Meeting. Virtual Presentation.
- Gordon, M.** 2021. [Western Chicken Turtle project updates, online reporting tool debut, and announcement of Alligator Snapping Turtle Project](#). East Texas Initiative Stakeholder Meeting. Virtual Presentation.
- Gordon, M.** 2020. [Can eDNA identify the needle in a haystack: Searching for the Western Chicken Turtle in Texas](#). East Texas Initiative Stakeholder Meeting. Virtual Presentation.
- Metz., T.L., **M. Gordon**, M. Mokrech, and G. Guillen. 2020. [Movements of juvenile Green turtles \(\*Chelonia mydas\*\) in nearshore waters of the northwestern Gulf of Mexico](#). 5<sup>th</sup> Southeast Regional Sea Turtle Symposium, Corpus Christi, TX. Presentation.
- Gordon, M.**, J. Oakley, G. Guillen. 2019. [Staying close to home: Seasonality and site fidelity of an insular population of Texas Diamond-backed Terrapins as determined by acoustic telemetry](#). 8<sup>th</sup> Triennial Meeting of the Diamondback Terrapin Working Groups. Wilmington, NC. Presentation.
- \*Chau, K. and **M. Gordon**. 2019. [Tracking invasives in Texas: a comparison of spatial distribution of invasive fish over the last decade](#). Annual meeting of the Texas Academy of Sciences, Brownwood, TX. Poster.
- Gordon, M.** 2018. [National Aquatic Resource Surveys – Monitoring our state](#). 32<sup>nd</sup> Annual Surface Water Quality meeting of the Texas Commission on Environmental Quality, Hunt, TX. Presentation.
- Guillen, G., C. Scanes, **M. Gordon**, T. Swanson, J. Oakley. 2018. [The influence of freshwater inflow on the estuarine nekton of a tidal river](#). TCAFS, College Station, TX. Presentation.
- J. Oakley, C. Scanes, **M. Gordon**, G. Guillen. 2018. [Recovery of Galveston Bay saltmarsh nekton communities after Hurricane Harvey](#). Texas Chapter of the American Fisheries Society, College Station, TX. Poster.
- Guillen, G., J. Oakley, N. Johns, **M. Gordon**. 2016. [Influence of freshwater inflow on the occurrence of Water Celery and the abundance and health of Atlantic \*Rangia\* in the Trinity River Delta, Galveston Bay, Texas](#). Restore America's Estuaries. New Orleans, LA. Poster.
- Guillen, G., **M. Gordon**, S. Curtis, J. Oakley. 2016. [The influence of freshwater inflow on water quality and nekton communities of the Brazos River Estuary, Texas](#). Restoring America's Estuaries. New Orleans, LA. Poster.
- Oakley, J., **M. Gordon**, G. Guillen. 2016. [National Aquatic Resource Surveys: Applications for state wetland condition monitoring and assessment](#). Society of Wetland Scientists, Corpus Christi, TX. Presentation.
- Curtis, S., J. Oakley, **M. Gordon**, G. Guillen. 2016. [Development of methodology to validate freshwater needs of the Brazos River estuary](#). Texas Chapter of the American Fisheries Society, Kerrville, TX. Presentation.
- Guillen, G., S. Curtis, J. Oakley, **M. Gordon**. 2016. [Influence of freshwater inflow on nekton of the Brazos River estuary](#). Texas Chapter of the American Fisheries Society, Kerrville, TX. Presentation.
- Curtis, S., J. Oakley, **M. Gordon**, and G. Guillen. 2015. [Influence of instream flow and tides on water quality of the Brazos River Estuary, Texas](#). American Fisheries Society, Portland, OR. Poster.
- Curtis, S., J. Oakley, **M. Gordon**, and G. Guillen. 2015. [Effects of freshwater inflow and tides on water quality of the Brazos River Estuary](#). Texas Bays and Estuaries Meeting, Port Aransas, TX. Poster.
- Gordon, M.L.**, T.L. Metz, G. Guillen. 2015. [Relative abundance and distribution of juvenile sea turtles along the mid-lower Texas coast based on directed capture](#). 2<sup>nd</sup> SERSTM, Jekyll Island, GA. Poster.
- Metz, T.L., **M.L. Gordon**, J. Anderson, G.J. Guillen. 2015. [Documentation of fibropapillomatosis in Green turtles \(\*Chelonia mydas\*\) captured from Texas inshore waters](#). Texas Bays and Estuaries Meeting, Port Aransas, TX. Presentation.
- Moss, A.**, G. Guillen. 2014. [Mid-upper coast surveys of Texas Diamondback Terrapin](#). 1<sup>st</sup> Meeting of the Texas Diamondback Terrapin Working Group, Corpus Christi, TX. Presentation.
- Moss, A.**, G. Guillen, B. Alleman, R. George. 2014. [Population survey of the Texas Diamondback Terrapin in San Antonio Bay, Matagorda Bay, and Sabine Lake: Preliminary results](#). 1<sup>st</sup> Mission-Aransas National Wildlife Refuge Research Symposium, Port Aransas, TX. Presentation.

- Metz, T.L., **A.L. Moss**. 2014. Movements of rehabilitated Loggerhead Sea Turtles (*Caretta caretta*) in the northwestern Gulf of Mexico. Belskis et al., compilers. In: [Proceedings of the Thirty-fourth Annual Symposium on Sea Turtle Biology and Conservation](#). NOAA Technical Memorandum NMFS-SEFSC-701. 276 pp.
- Metz, T.L., A.M. Landry, **A.L. Moss**, K.I. St. Clair. 2012. Movements of juvenile Green turtles (*Chelonia mydas*) in nearshore waters of the northwestern Gulf of Mexico. Jones et al., compilers. In: [Proceedings of the 31<sup>st</sup> Annual Symposium on Sea Turtle Biology and Conservation](#). NOAA Technical Memorandum NMFS-SEFSC-631, 306 pp.
- Moss, A.L.** 2010. [Seasonal testosterone and reproductive cycles in Yellow-Bellied Slider turtles \(\*Trachemys scripta scripta\*\)](#). M.S. Thesis. Georgia Southern University, Statesboro, GA.
- Moss, A.L.**, T. Wibbels, D. Rostal. 2010. Annual reproductive cycles of male and female Yellow-Bellied Sliders (*Trachemys s. scripta*) from two populations in Georgia exposed to different water temperature regimes. In: [Joint Meeting of Ichthyologists and Herpetologists Abstract Book](#). 560 pp.
- Moss, A.L.**, D.C. Rostal. 2010. Use of ultrasound, x-ray, and oxytocin to determine reproductive state of female *Trachemys s. scripta* not collected at the nesting site. In: [Joint Meeting of Ichthyologists and Herpetologists Abstract Book](#). 560 pp.
- Marshall, C.D., **A.L. Moss**, A. Guzman. 2009. [Loggerhead Sea Turtle \(\*Caretta caretta\*\) feeding on mackerel-baited longline hooks](#). Society for Integrative and Comparative Biology, Boston, MA. Poster.
- Teare, A., D. Rostal, P. Marley, **A.L. Moss**. 2009. [Reproductive biology of the Alligator Snapping turtle \(\*Macrochelys temminckii\*\)](#). Society for Integrative and Comparative Biology, Boston, MA. Poster.
- Moss, A.L.**, C.D. Marshall. 2007. A gross morphological and histocytological analysis of gastrointestinal function in Pygmy and Dwarf Sperm Whales (*Kogia breviceps* and *K. sima*). DeYoe, H. and B. Murphy, Program Chair & Program Editor. In: [110<sup>th</sup> Annual Meeting of the Texas Academy of Science Program and Abstracts](#). 77, #63.
- Marshall, C.D., **Moss, A.L.** 2007. [Functional morphology of inking behavior in Pygmy and Dwarf sperm whales](#). In: Integrative and Comparative Biology. 46, E227.

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### SELECT SEMINAR AND LECTURE PRESENTATIONS

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- Gordon, M.** 2023. Environmental lab and field studies. University of Houston-Downtown (in partnership with Dr. Michael Tobin). Invited lecturer for one lab session and one field trip.
- Gordon, M.** 2023. Updates to Texas turtle projects. Sabine and Neches Master Naturalist Advanced Training Program. Educational Lecture.
- Gordon, M.** 2023. Searching for the Texas Diamond-backed Terrapin: 15 years of marsh exploration. Galveston Bay Foundation Lunch-and-Learn. Educational lecture.
- Gordon, M.** 2022. Environmental lab and field studies. University of Houston-Downtown (in partnership with Dr. Michael Tobin). Invited lecturer for one lab session and one field trip.
- Gordon, M.** 2021. Texas aquatic turtle surveys: 13 years of exploration. Beaumont Master Naturalist Advanced Training Program. Educational Lecture.
- Gordon, M.** 2020. EIH aquatic turtle surveys: A 13 year review. Environmental Institute of Houston Advisory Board. Virtual Educational Seminar.
- Gordon, M.** 2020. Searching for the Texas Diamond-backed terrapin: 13 years of marsh exploration. Liberty County Master Naturalist Advanced Training Program. Virtual Educational Seminar.
- Moss, A.L.** 2014. Texas Diamondback Terrapin (*Malaclemys terrapin littoralis*). J.D. Murphree Wildlife Management Area Staff, Port Arthur, TX. Educational Lecture.
- Moss, A.L.** 2012. Ultrasound imaging of turtles. Environmental Institute of Houston staff and graduate students, Houston, TX. Educational Lecture.
- Moss, A.L.** 2010. Reproductive biology of the Yellow-Bellied Slider turtle (*Trachemys scripta scripta*). Georgia Southern University Biology Department, Statesboro, GA. Educational Seminar.

## CONCURRENT ACTIVITIES

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- *Graduate student mentorship*: 7 total (2020-present)
- *Undergraduate student mentorship*: 4 total (2021-present)
- *Direct reports supervised*: 49 total (2016-present)
- *Collaborations funded by other institutions*: [years(s), *project title*, list of collaborating agencies]
  - 2021-present *Population monitoring of Alligator Snapping Turtles in Harris County, Texas*; in partnership with SWCA Environmental and the Turtle Survival Alliance
  - 2021-present *Health assessment of Alligator Snapping Turtles in east Texas*; in partnership with Texas Turtles, Sea Life Aquarium Grapevine, and Sea World San Antonio
- *Special Interest Groups*:
  - 2023-present Gulf of Mexico Alliance Marine Wildlife & Fisheries Cross Team | *Stakeholder*
  - 2023-present Gulf of Mexico Alliance Marine Debris Cross Team | *Stakeholder*
  - 2023 Environmental DNA Workshop and Symposium | *Plenary speaker*
  - 2022-present Alligator Snapping Turtle Expert Panel | *Subject Matter Expert*
  - 2021-present Western Chicken Turtle Expert Panel | *Subject Matter Expert*
  - 2020-2022 East Texas Endangered and Threatened Species Workgroup | *Stakeholder*
  - 2019-2022 Conservation Action Plan Technical Advisory Board | *Advisory Team Member*
  - 2018-2020 National Aquatic Surveys Working Group | *Invited Member*
  - 2008-2009 Georgia Freshwater Stakeholder Working Group | *Member*
- *Reviewer*: THE WILDLIFE SOCIETY (travel grant reviewer for 2022 and 2023 national conference); NATIONAL MONITORING CONFERENCE (session reviewer and assistant planner, 2021); SOUTHEASTERN ASSOCIATION OF FISH AND WILDLIFE AGENCIES ANNUAL CONFERENCE (student poster competition evaluator, 2021)
- *Curriculum development for professional advancement*: [SURFACE WATER QUALITY MONITORING TRAINING](#) (lead trainer, 2016-Present)
- *Acting trainer for professional advancement*: NATIONAL RIVERS AND STREAMS ASSESSMENT (station trainer for USEPA regions 6, 7, and 9, 2018-2019, 2023); PERIPHYTON SAMPLING TECHNIQUES FOR TEXAS RIVERS AND STREAMS (training station leader, 2018); UTV SAFETY (trainer, 2016)
- *Public outreach and education*: TEXAS COASTAL PRAIRIE CONFERENCE (field trip host, 2022); BAY DAY FESTIVAL (educational exhibitor, 2016); TEXAS ENVIROTHON (station leader and grader, 2014); ALPHA CLASS elementary education presentations (guest instructor, 2014); NATIVE TURTLES OF GEORGIA elementary education presentations (lead facilitator, 2009)
- *Volunteer Work*: FIELD ASSISTANT for Texas Turtles Snapperpalooza Surveys (2021-present); FIELD ASSISTANT for Turtle Survival Alliance and North American Freshwater Turtle Research Group long-term monitoring surveys (2020-Present); ENFORCER for Penny Arcade Expo (2017-2019; activity suspended due to COVID-19); PATROLLER for Galveston Sea Turtle Nesting Patrol (2016-2018); VESSEL CAPTAIN for Christmas Bird Count (2016-2018); FIELD ASSISTANT for North American Freshwater Turtle Research Group Comal River Turtle Survey (2014); STATION DOCENT for Houston Zoo (2013-2014); EDUCATIONAL DOCENT for Houston Museum of Natural Science (2013-2014); CHAIRWOMAN for TAMUG Big Event Committee (2006); CO-CHAIRMAN for Flight Line Safety at Experimental Aircraft Association – Airventure (2000-2010)
- *Leadership training*: UHCL ASCEND TRAINING PROGRAM (2022-present; courses attended: Coaching, Performance Assessment Foundations, New Supervisor Foundations)



### ADDITIONAL TRAINING AND CERTIFICATIONS

- 2022 Texas Driver’s Safety (since 2011; expires 2025)
- 2021 First Aid and CPR (since 1999; expires 2023)
- 2016 Wilderness First Aid (National Outdoor Leadership School)
- 2016 Introduction to Plant Taxonomy and Using a Dichotomous Key (TPWD)
- 2016 Analysis of Multivariate Data from Ecology and Environmental Science using PRIMER v7
- 2015 USACoE Wetland Delineation, US Waters, and Regional Supplement Training (SHSU)
- 2007 Texas Boaters Education Certification (TPWD)

### PROFESSIONAL SOCIETY MEMBERSHIPS

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|---|---|
| American Society of Ichthyologists and Herpetologists | Southwestern Association of Naturalists |
| Diamondback Terrapin Working Group                    | Texas Chapter of the Wildlife Society   |
| Herpetologists League                                 | The Wildlife Society                    |
| Society for Integrative and Comparative Biology       | Texas Herpetological Society            |
| Society for Study of Amphibians and Reptiles          |   |

### RELATED SKILLS AND TECHNICAL EXPERTISE

- Boating/Trailer**ing > 1,000 hours operating outboard motor vessels ranging from 14’ to 25’ on coastal, estuarine, and freshwater bodies; proficient at trailering
- Wildlife Surveying** Hoop, pitfall, basking, and Have-a-Heart trapping; visual observation with spotting scope and binoculars; road, nesting, and walking transect wildlife surveys; PIT tagging; flipper tagging; sub-carapacial and caudal blood draws; ultrasound and x-ray; radio and acoustic telemetry; game camera installation, maintenance, and data analyses
- Environment Sampling** Suspended-sediment profile sampling; flow monitoring (point velocity, doppler); installation and maintenance of flow monitoring stations (YSI Amazon Bubbler system); water grab, composite, and profile sampling; various preservation methods (including sodium thiosulfate, sulfuric acid, and dry ice/liquid nitrogen); environmental DNA (eDNA) sampling for water and soils;
- Nekton Sampling** Fyke and gill nets; bag and pole seines; otter, beam, and plankton trawls; Breder and minnow trapping; electrofishing (backpack, barge, and boat); hook and line; Van Dorn, Ekman and ponar benthic samplers
- Laboratory Analyses** TSS, enterococci, chlorophyll, and eDNA filtering; benthic sorting; invertebrate library cataloguing and organization; histology (sample preservation, processing, sectioning, staining, and cell counts)
- General Equipment** Multiparameter sonde maintenance and calibration (YSI ProDSS, YSI 600XLM, YSI 6920); in situ datalogger maintenance, installation, calibration, and operation (Onset HOBO U24 & 26, In-Situ BaroTROLL); secchi disk and tube; orienteering/navigation via compass and handheld/mounted GPS units; densiometer; surveyor level and stadia rod; range finder
- Software** Microsoft Office Suite (Word, PowerPoint, Outlook, Publisher, and Excel); Adobe Acrobat; ArcGIS Pro; Google Earth Pro; SigmaPlot 14.5; R, RStudio, and RShiny; EndNote; Garmin Basecamp; Humminbird; OpenCPN; FlowTracker; RiverSurveyorLive; HOBOWare; Win-Situ Baro Merge; VEMCO Vue