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Past Publications: <https://www.uhcl.edu/environmental-institute/people/staff/guillen>

EDUCATION

1996 University of Texas - School of Public Health (Houston, TX). Ph.D. Environmental Science Option. Dec. 1996.

1983 Texas A&M University (College Station, TX). M.S. Wildlife and Fisheries Sciences. Dec. 1983.

1979 Texas A&M University (Galveston, TX). B.S. Marine Biology. Dec. 1979.

EXPERIENCE

2025 – present University of Houston Clear Lake City. Houston, Texas. Emeritus Professor of Biology and Environmental Science. College of Science and Engineering. Department of Biology and Environmental Science.

2017 – 2024 University of Houston Clear Lake City. Houston, Texas. Professor of Biology and Environmental Science. Taught courses in Marine Biology, Ichthyology, Limnology, Wetland Ecology and Population Dynamics, and Seminar.

2004- 2024 University of Houston Clear Lake City. Houston, Texas. Executive Director of the Environmental Institute of Houston. Responsible for overall management of the Environmental Institute of Houston.

2004 – 2017 University of Houston Clear Lake City. Houston, Texas. Associate Professor of Biology and Environmental Science. Teach courses in Marine Biology, Ichthyology, Limnology, Wetland Ecology and Population Dynamics.

2005- 2018 Texas A&M University. Galveston, Texas. Lecturer: Teach undergraduate fisheries population dynamics course and graduate marine biology courses. Appointed to the Graduate faculty 2015- present.

2000-2004 U.S. Department of Interior. Fish and Wildlife Service. Arcata, CA. Chief of the Fisheries and Contaminant Programs

1999-2000 U.S. Department of Interior. BOEM (previously Minerals Management Service), New Orleans, LA. Gulf of Mexico Office. Toxicology and Risk Assessment Unit Chief

1998-99 U.S. Department of Interior. BOEM (Previously Minerals Management Service), New Orleans, LA. Gulf of Mexico Office. Oceanographer

1997-98 Texas Natural Resource Conservation Commission. Water Program Manager

1993-97 Texas Natural Resource Conservation Commission Environmental Assessment Program Manager

1998 University of Houston - Main Campus. Houston, Texas. Adjunct Faculty: Taught upper level undergraduate courses in ecology (2 semesters).

1995-96 San Jacinto College - Houston, Texas. Adjunct Faculty: Taught undergraduate course in zoology.

1993-98	University of Houston Clear Lake. Houston, Texas. <u>Adjunct Faculty</u> : Upper level undergraduate courses in zoology, ecology, fisheries science, marine biology, environmental biology
1991-94	Texas A&M University. Galveston, Texas. <u>Lecturer</u> : Taught undergraduate fisheries management course.
1992-93	Texas Water Commission. <u>District Manager</u> .
1988-92	Texas Water Commission. <u>Environmental Monitoring Program Manager</u> .
1984-88	Texas Parks and Wildlife Department. Environmental <u>Contaminants Biologist</u>
1983-84	LGL Environmental Consultants. <u>Laboratory Technician</u>
1982-83	Texas A&M University/Biology Department. <u>Laboratory Teaching Assistant</u>
1980-82	TERECO Corporation Environmental Consultants. <u>Environmental Assessment Technician</u>
1981	Texas A&M University/Wildlife and Fisheries Sciences Department. <u>Lab Technician</u>
1980	Texas A&M University/ Dr. A.M. Landry. <u>Field Team Leader</u>
1979-80	Human Sciences Research. <u>Creel Survey Interviewer</u>
1979	Texas A&M at Galveston. <u>Research Diver</u>

RECENT FUNDED RESEARCH AND PROJECTS EXPERIENCE (PI or Co-PI, Source, Amount):

2024-2027	Galveston Bay Oyster Sentinel Project – GBEP Co-PI \$297K
2022-2024	National Rivers and Stream Assessment of Texas – TCEQ/EPA Co-PI, \$509.2K
2022-2023	Utilizing eDNA and Plankton Sampling to Monitor American Eel Recruitment in Texas. Texas Parks and Wildlife Department. PI \$99K
2022	National Lake Assessment of Texas, TCEQ/EPA –PI, \$323K
2021-2023	Oyster Shell Recycling Program Phase 4: Sun Curing Research & Collaboration. Galveston Bay Foundation. PI, \$36K
2021-2023	Establishing a Network of Eel Ramps to Monitor Recruitment of Glass and Elver American Eel. Texas Parks and Wildlife Department. PI, \$85K
2021-2023	Assessment of Water Quality in Galveston Bay watersheds. Clean Rivers Program, Houston-Galveston Area Council. PI \$131K
2021	National Wetland Condition Assessment of Texas TCEQ/EPA – Co-PI, \$300K
2020-23	Baseline Study of Alligator Snapping Turtle (<i>Macrochelys temminckii</i>) Population Viability in Texas Watersheds. Texas Comptroller of Public Accounts. PI. (Contract No. 21-7219BG; \$399,646).
2019-23	Distribution and Habitat Associations of the Western Chicken Turtle in Texas. Texas Comptroller of Public Accounts. PI \$315K

2019-21	Assessment of Water Quality in Galveston Bay watersheds. Clean Rivers Monitoring Program. Houston Galveston Area Council, PI \$110K
2019-21	Development and Assessment of Floating Wetland Treatment Systems. PI, Harris County Flood Control District. Co-PI \$130K
2020	National Coastal Condition Assessment for Louisiana– PI, Great Lakes Environmental Quality, Co-PI \$400K
2019-20	National Coastal Condition Assessment of Texas– PI, TCEQ/EPA, \$300K
2019-20	Texas Western Chicken Turtle Status Assessment – Co-PI, TXCPA, \$315K
2019-21	Texas Dwarf Seahorse Status Assessment – PI, TPWD, \$84K.
2018-20	Brazos River Freshwater Inflow Study. Phase 3. PI, TWDB, \$75K
2018	Coastal Texas Protection and Restoration Study, Environmental Impacts on Marine Mammal Populations. Co-PI Texas General Land Office. \$138K
2018-20	National Rivers and Streams Assessment of Texas – PI, TCEQ/EPA, \$484K
2017-20	Distribution, Abundance, and Habitat Use of the American Eel in the Lower Sabine, Colorado, and Guadalupe River Basin – Co-PI, TPWD, \$109K
2017-20	Characterization of the Influence of Freshwater Inflow on the Trinity River Delta Salinity, Rangia and Submerged Aquatic Vegetation. Galveston Bay Estuary Program. PI. \$60K.
2017-18	Characterization of microbial community structure and fecal contamination of floodwaters generated by Hurricane Harvey. NSF-Rapid Co-PI. PI Michael LaMontagne. \$9.3K
2017	National Lakes Assessment of Texas – PI, TCEQ/EPA, \$248K
2016-17	Brazos Rivers Instream Flow and Freshwater Inflow Study. Phase 2. Co-PI, TWDB, \$75K.
2016-18	Coast-wide Characterization of Saltmarsh Topminnow – <i>Fundulus jenkinsi</i> populations within the Texas coast. - PI, TPWD/USFWS. \$107K.
2016-17	Assessment of Salinity Regime at the Anahuac NWR and Trinity River Delta. – PI, NWF. \$64K.
2016	Distribution of <i>Rangia cuneata</i> in relation to salinity and freshwater inflow along the Trinity River delta, Galveston Texas. – PI, NWF. \$34K
2016-18	Assessment of Water Quality in Galveston Bay watersheds. Clean Rivers Monitoring Program. PI, Houston Galveston Area Council, PI, HGAC/TCEQ \$77.9K
2015- 17	Assessment of Water Quality in Galveston Bay watersheds. Clean Rivers Monitoring Program. PI, Houston Galveston Area Council/TCEQ, \$89K
2015-16	National Wetlands Condition Assessment – PI, TCEQ/EPA, \$245K

2015-16	Mapping Shallow Oyster Reefs using Low-Cost Side Scanning Sonar and Drone Photography Systems. – Co-PI, Gulf Coast Prairie LCC Grant, Wildlife Management Institute, Inc. (WMI). \$48K
2014-15	National Coastal Condition Assessment – PI, TCEQ/EPA, \$290K
2014-15	Brazos Rivers Instream Flow and Freshwater Inflow Study Phase 1. Co-PI, TWDB, \$88K
2014-15	Distribution, Abundance and Habitat Use by the Saltmarsh topminnow, <i>Fundulus jenkinsi</i> . PI, TPWD, \$48.7K
2014	Population Survey of the Texas Diamondback Terrapin, <i>Malaclemys terrapin littoralis</i> in San Antonio Bay, Matagorda Bay, and Sabine Lake. PI, TPWD, \$42.3K
2013-14	Statistical analysis of the National Lakes Assessment Data for the State of Texas. PI, TCEQ, \$50K
2013-pres.	Population Ecology and Demographics of Texas Diamondback Terrapin (<i>Malaclemys terrapin littoralis</i>) (ongoing long-term monitoring). Various sources & UHCL-EIH match. Co-PI. (\$75K cumulative).
2013-14	Tracking the Incidence of the Fibropapilloma Virus in Texas' Green Sea Turtle Population. Co-PI with Dr. Tasha Metz. WCCR. Texas State Aquarium. - \$20K
2013-17	Instream Flow Study of Endangered Texas Wild Rice and Associated Biota on the San Marcos River. Co-PI with Dr. Thom Hardy. City of San Marcos, TX, \$1.2M/yr.
2012-14	Piping Plover Survey – Upper Texas Coast. Coastal Bend Bays and Estuaries Program and Co-PI with CBBEP, USFWS, \$71K.
2012-14	American Oystercatcher Stewardship in Texas. Gulf Coast Bird Observatory. Co-PI with Susan Heath, GCBO \$82K.
2013-14	National Rivers and Stream Assessment – PI, TCEQ/EPA, \$270K.
2011-13	Assessment of Water Quality in Galveston Bay watersheds. Clean Rivers Monitoring Program. PI, Houston Galveston Area Council, \$300K
2011-13	Effects of the Texas Blue Crab Fishery on Diamondback Terrapin Populations. PI, Texas Parks and Wildlife Department State Wildlife Grant, \$60K
2011-12	Diamondback Terrapin Population Assessment. PI, Texas Sea Grant, \$70K
2011	National Wetland Condition Assessment – PI, TCEQ/EPA, \$170K
2011	Estimation of Blue Crab growth and movement in Galveston Bay tributaries – PI, TPWD, \$9K
2010-11	Evaluation of water quality in coastal basins – PI, Texas AgriLife, \$52K
2010-11	Sedimentation Study of Dickinson Bayou Tidal (Segment 1103) – PI, TCEQ, \$40K
2010-11	Development of Nutrient Criteria Support Document – Technical Support. PI, TCEQ, \$170K
2010-11	National Coastal Condition Assessment – PI, TCEQ/EPA, \$220K

2010-11	Evaluation of the influence of stream substrate of fish communities in Harris County. PI, Harris County Flood Control District. \$60K
2010-11	Assessment of Water Quality in Galveston Bay watersheds. Clean Rivers Monitoring Program. PI, Houston Galveston Area Council, \$80K
2010-11	Evaluation of wetland hydrology and time of transport estimates in relation to indicator bacteria removal at the constructed Mason Park wetland. PI, Harris County Flood Control District, \$40K
2010-12	Characterization of turbidity in Harris County streams based on watershed characteristics and hydrology. PI, Harris County Flood Control District, \$70K
2009-13	Development of Wetland Treatment System for the Armand Bayou Watershed. PI, TCEQ – GBEP, \$500K
2009-10	Development of an Ecosystem Model for Galveston Bay. PI, TCEQ – GBEP, \$35K
2009-11	Recreational and Aquatic Life Use Attainability Analysis – South Texas Streams. PI, TCEQ, \$200K
2009-10	Evaluation of Diamondback Terrapin population dynamics in Brazoria San Bernard National Wildlife Refuge System Complex. PI, USFWS, \$20K
2009-11	Evaluation of Diamondback Terrapin population dynamics in West Bay. PI, USFWS. Ecological Services, \$32K
2009	Development of Ecological Overlay Information and Data for Support of Senate Bill 3 Environmental Flow Recommendations. PI, Trinity River Authority and Texas Water Development Board, \$70K
2008-10	Evaluation of Fish as sources of <i>E. coli</i> bacteria. PI, TWRI Harris County Public Infrastructure (HCPID), \$70K
2008-10	Evaluation of Bats as sources of <i>E. coli</i> bacteria. PI, TWRI Harris County Public Infrastructure (HCPID), \$60K
2008-09	Compilation and evaluation of existing environmental information on the Trinity River, Texas. Trinity River Authority, \$60K
2007-08	Evaluation of Diamondback Terrapin population dynamics in Galveston Bay. PI, Houston Zoo and Texas Parks and Wildlife Department, \$30K
2008-09	Population density, movement and habitat utilization of the Diamondback Terrapin. PI, Faculty Research and Support Fund Proposal, \$6K
2008-09	Phase II. A bacteriological survey of Lake Madeline, Texas. PI, City of Galveston. \$20K
2007-09	Assessment of Water Quality in Galveston Bay watersheds. Clean Rivers Monitoring Program. PI, Houston Galveston Area Council. \$80K
2008-10	Armand Bayou TMDL and Recreational Use Attainability Analysis – Bacteria Above Tidal. PI, TCEQ. \$80K

2008	Use of Stable Isotopes to evaluate food webs in support of development of Mass Balanced ECOPATH Model for Galveston Bay (Modeling losses to blue crab populations from reduced fresh water inflow and overfishing using EwE software). Co-PI, TPWD. Collaborative Project with TPWD P.I. Glen Sutton. \$35K
2007-10	Greens Bayou Wetlands Mitigation Bank Assessment Project: Development of a GIS model to evaluate site hydrology. PI, Harris County Soil and Water Conservation District, \$120K
2007	Evaluation of Historical Trends in Trinity River Fish Communities, Phase II. PI, Trinity River Authority. \$25K
2007	Evaluation of Historical Trends in Trinity River Fish Communities. PI, Trinity River Authority. \$20K
2007	Development of Mass Balanced ECOPATH Model for Galveston Bay (Modeling losses to blue crab populations from reduced fresh water inflow and overfishing using EwE software). Co-PI, TPWD. Collaborative Project with TPWD P.I. Glen Sutton. \$20K
2007	Air Quality Monitoring and Education Gift. PI, Houston Endowment. \$300K
2007-09	Evaluation of the influence of stream substrate of fish communities in Harris County. PI, Harris County Flood Control District. \$60K
2006-07	Revision of the Galveston Bay Habitat Blueprint. PI, Galveston Bay Estuary Program. \$10K
2006	A bacteriological survey of Lake Madeline, Galveston, Texas. PI, City of Galveston. \$30K
2006	An Evaluation of the Hydrology of the Greens Bayou Wetland Mitigation Bank: Subdivision A Phase 1. Co-principal investigators Dr. Brad Wilcox – TAMU, and Heather Biggs - EIH, Harris County Flood Control District. \$29.9K
2005-06	Assessing the Effects of Community-based restoration on stewardship in communities. Restore America's Estuaries. Co-principal investigator. Principal Investigator: Dr. Sharon Hall – School of HSH Galveston Bay Foundation. \$12K
2005-07	Assessment of Water Quality in Galveston Bay watersheds. Clean Rivers Monitoring Program. PI, Houston Galveston Area Council, \$89.4K
2005-06	Growth of Ichthyoplankton in Relation to Environmental Conditions within Galveston Bay. PI, University of Houston Faculty Research Development Grant. \$6K
2005	Rapid Bioassessment of benthic invertebrates in Goose Creek, Texas. PI, Crouch Environmental Subcontract. \$20K
2004	Assessment of Water Quality in Galveston Bay watersheds. Clean Rivers Monitoring Program. PI, Houston Galveston Area Council. \$40K
2004	Evaluation of the Distribution of Exotic Fish Species in first and second order tidal streams of the Galveston Bay watershed. PI, University of Houston Faculty Research Development Grant. \$6K

INDEPENDENT EXTERNAL SERVICE, CONSULTING AND INSTRUCTION

2023-24	Member of the Coastal Coordination Advisory Committee (CCAC); assists the Texas General Land Office reviewing research and restoration projects along the Texas coast funded by NOAA and the TGLO. Appointed by TGLO Commissioner Dawn Buckingham, M.D.
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2023	External Peer Reviewer for the Legislative-Citizen Commission on Minnesota Resources Review (LCCMRR).
2022-23	Independent external peer review panel (IEPR). Technical Review of Draft Programmatic Environmental Impact Statement. Willamette Valley System Operations and Maintenance. Client: Battelle Corporation
2019-20	Statewide Synthesis of Environmental Flow Studies (2014-2017). Co-PI. Client: Texas Water Development Board. TWDB Contract # 1900012284. Subcontractor to Texas State University, PI Dr. Thom Hardy.
2019	Instructor of portion of <i>Investigation and Valuation of Fish Kills</i> . Workshop. Client: Southern Division of the American Fisheries Society. Primary Instructor: Greg Conley.
2017-18	Review of the Southeast Climate Science Center. American Fisheries Society review team. Client: USGS, Oklahoma State and AFS.
2015	Instructor of <i>Investigation and Valuation of Fish Kills</i> . Workshop. Client: State of Alabama.
2014-16	Independent external peer review panel. Technical Review of the Puget Sound Nearshore Ecosystem Restoration Draft Integrated Feasibility Study/Environmental Impact Statement (PSNER DFS/EIS). Client: Battelle Corporation.
2014	Review of HCFCD Stream Restoration Project – Memorial Park Buffalo Bayou Project. Client: Sierra Club of Houston.
2012	Instructor of <i>Investigation and Valuation of Fish Kills</i> . U.S. Fish and Wildlife Service. National Conservation Training Course. Arcata, CA.
2008-09	Peer Reviewer - Exxon Valdez Oil Spill Trustee Council. Partial reimbursement for review of proposed research projects dealing with restoration of previously impacted ecosystems in Arctic ecosystems.
2008	Consultant. Client Anadarko. Subcontract with Weston Solutions. Preliminary Recreational Fishing and Hydrology of the Tule Lake Complex Brine Service Company Superfund Site.
2008	Consultant. Client U.S. Army Corp of Engineers. Subcontract with Battelle Corporation. Technical Peer Review of Freeport Harbor COE Project.
2008	Evaluation of Bacteria Levels and Water Quality in Harris County Bayous. Consultant. Client Harris County Public Infrastructure Department. Subcontract with Turner Collie and Braden.
2007-08.	Galveston Airport Study Client: City of Galveston, subcontracted under Klotz and Associates.
2006	Instructor. Pond culture short course. Client: U.S. Fish and Wildlife Service. National Conservation Training Course.
2005	Instructor. Investigation and Valuation of Fish Kills. U.S. Fish and Wildlife Service. National Conservation Training Course.

EXPERT WITNESS AND LITIGATION SUPPORT EXPERIENCE

2016-17 Deposition and testimony in support of San Leon MUD opposition to Clean Harbors San Leon, Inc.'s application with SOAH and/or TCEQ for a Major Amendment to its Texas Pollutant Discharge Elimination System Permit. Contact: Stephanie S. Potter: Naman, Howell, Smith and Lee, PLLC.

2015-16 Review of Water Quality Impacts associated with the proposed CLCWA Authority wastewater facility: permit amendment. Clients: Coats | Rose, Dallas, TX and CLCWA. Contact: Angela Stepherson.

2014-16 Analysis of impacts associated with superfund site on coastal fisheries of Texas. Local Fisherman's Group and State of Texas vs. Private Company. Clients: Bracewell & Giuliani LLP and Morgan, Lewis and Bockius LLP. Houston, TX. Contact: Attorney Jason Muriby.

2013-14 Characterization of Galveston Bay Commercial Fisheries. Houston, TX. Bracewell & Giuliani LLP and Morgan, Lewis and Bockius LLP. Houston, TX. Contact: Attorney Jason Muriby.

2011-13 Deposition on the methodology used to derive estimates of dead endangered darter populations. Alabama Fish Kill Case. City of Birmingham vs. USFWS. Client: Balch and Bingham, LLP. And City of Birmingham. Contact: P. Stephen Gidere, III.

2004. Deposition as to the scientific evidence and causes of the Klamath River Fish Kill Case investigated by the USFWS. Arcata, California. U.S. Government v. Yurok Tribe. Client: USDOJ. Role: Agency Biologist.

1990. Oral testimony on impacts of proposed wastewater discharge on Christmas Bay. Texas Water Commission Proposed Permit Hearing. Role: Agency Biologist.

RECENT PRESENTATIONS

Guillen, G. 2025. One Health and Environmental Issues: Gulf Coast. October 3, 2025 – Greater Texas Gulf Coast Engage Me Series (GTX-GEMS): Sparking Conversations, Igniting Action, Building a Healthier Future Together. October 3, 2025. University of Texas Medical Branch. Galveston, Texas.

Guillen, G. 2023. *A history of water quality monitoring in the HGAC Service Area*. December 12th meeting of the Clean Rivers Monitoring group. Online oral presentation.

Guillen, G. 2023. Major Findings and Data Products from Analysis of the Riverine Estuary of the Brazos: briefing to the Brazos BBASC and TWDB October 19, 2023 meeting of the Brazos BBASC. Online oral presentation.

Castillo, A., Oakley, J.W., Hanke, M., Batte, S., Leija, H., and Guillen, G. 2023. Persistence of dermo (*Perkinsus marinus*) in sun-cured eastern oysters (*Crassostrea virginica*). Houston Regional Ecology & Evolution Symposium, La Marque, TX. Poster.

Chau, K., Oakley, J.W., Vega, R., and Guillen, G. 2023. Floating treatment wetlands: a pilot-study and large-scale field trial of the stormwater treatment potential in urban catchments in a subtropical environment. Houston Regional Ecology & Evolution Symposium, La Marque, TX. Presentation; 3rd place.

Cox, E., Oakley, J.W., and G. Guillen. 2023. Estimating abundance of microplastics in surface waters of the Galveston Bay watershed. Texas Plastics Pollution Symposium. Presentation.

DeChellis, D., Gordon, M., Mokrech, M. and Guillen, G. 2023. Distribution modeling for the Western Chicken Turtle (*Deirochelys reticularia miaria*) in Texas. Houston Regional Ecology and Evolution Symposium.

DeChellis, D., Gordon, M., Mokrech, M. and Guillen, G. 2023. Western Chicken Turtle (WCT) Distribution Modeling using MaxEnt. Northeast Texas CRP Stakeholder Meeting. Northeast TX Municipal Water District

Garcia, K., Gordon, M., and Guillen, G. 2023. Evaluation of anthropogenic disturbances of Alligator Snapping Turtles. Northeast Texas CRP Stakeholder Meeting. Northeast TX Municipal Water District

Gordon, M.L., Nagro, J., DeChellis, D., Collins, L., Nelson, H., Apodaca, J.J., Oakley, J., and Guillen, G.J. 2023. Use of environmental DNA for detecting cryptic species in wetland habitats: a case study of the western chicken turtle (*Deirochelys reticularia miaria*). Texas Chapter of The Wildlife Society Annual Meeting. Houston, TX

Guillen, G. 2023. A Review of Impacts of Human Activity on Aquatic Life. Invited Lecture to the Global Scholars Academy in Houston TX July 12, 2023.

Guillen, G. 2023. "Hurricanes, barriers and climate change: Galveston Bay case study." Texas Envirothon Teacher Workshop January 27, 2023. Virtual presentation. <https://youtu.be/IBrYhQVI4CM>

Oakley, J.W., Lesher, S., Hanke, M., Guillen, G., Batte, S., and Leija, H. 2023. Persistence of dermo (*Perkinsus marinus*) in sun-cured eastern oysters (*Crassostrea virginica*). Annual Meeting of the Texas Chapter of the American Fisheries Society, Corpus Christi, TX.

Oakley, J.W., Curtis, S., Swinford, J., Sak, A., Underwood, E., Kean, P., Anderson, J., Davis, S., Fredrickson, A., and Guillen, G. 2023. Eel ramps and eDNA to detect recruitment of American eel (*Anguilla rostrata*) in Texas. Annual Meeting of the Texas Chapter of the American Fisheries Society, Corpus Christi, TX. Poster.

Oakley, J.W., Curtis, S., Hansen, J., and Guillen, G. 2022. Use of a Novel Gear Type (Fyke Net) to Document Elopomorph Recruitment in Texas. Annual meeting of Texas Chapter of the American Fisheries Society, Mo Ranch, TX.

Lesher, S., Oakley, J.W. and Guillen G. 2022. Dwarf Seahorse (*Hippocampus zosterae*) Distribution, Abundance, and Sampling Gear Catch Efficacy in Texas. Annual meeting of Texas Chapter of the American Fisheries Society, Mo Ranch, TX

Garcia K., Gordon M., Munscher E., Tuggle, A., Franklin C., Ricardez, V., and G. Guillen. 2022. Do Anthropogenic Stressors Affect Distribution of Alligator Snapping Turtles (*Macrochelys temminckii*) In Texas? : Preliminary Study Design. 125th Annual Meeting of the Texas Academy of Science. University of Houston-Clear Lake, Houston, Texas.

DeChellis D., Gordon, M., and G. Guillen. 2022. Preliminary Analyses of Landscape-Scale Impacts on Western Chicken Turtles (*Deirochelys reticularia miaria*) in Texas. 125th Annual Meeting of the Texas Academy of Science. University of Houston-Clear Lake, Houston, Texas.

Nagro, J., Gordon, M., Mokrech, M., and G. Guillen. 2022. Birds eye view: preliminary use of small unmanned aerial systems (sUAS) for aquatic turtle surveys. 125th Annual Meeting of the Texas Academy of Science. University of Houston-Clear Lake, Houston, Texas.

Chau, K., Oakley, J., Vega R., and G. Guillen. 2022. Floating treatment wetlands: A pilot-study of the stormwater treatment potential in urban catchments in a subtropical environment. 125th Annual Meeting of the Texas Academy of Science. University of Houston-Clear Lake, Houston, Texas.

Guillen, G. 2022. Estimating and Defining Environmental Flow Needs for Texas Estuaries: new information and approaches. 125th Annual Meeting of the Texas Academy of Science. University of Houston Clear Lake, Houston, Texas.

Cox, E., Steinhause, J., De Salvo Anderson, K. and G. Guillen. 2022. Estimating abundance of microplastics in surface waters and sediments of the Galveston Bay watershed. 125th Annual Meeting of the Texas Academy of Science. University of Houston Clear Lake, Houston, Texas.

Oakley, J., Hansen, J., Molina, T., Curtis, S., and G. Guillen. Extensive Field Effort Using a Novel Gear Type to Detect Recruitment of American Eel (*Anguilla rostrata*) in Texas. 125th Annual Meeting of the Texas Academy of Science. University of Houston Clear Lake, Houston, Texas.

Lesher, S., Oakley J., and G. Guillen. 2022. Relationship between Seagrass and Dwarf Seahorse (*Hippocampus zosterae*) Abundance and Distribution in Texas. 125th Annual Meeting of the Texas Academy of Science. University of Houston Clear Lake, Houston, Texas.

Guillen, G. 2021. Diamondback Terrapin Research Plan for Texas. Presented to the GOMA Wildlife and Fisheries Team on 9/21/2021.

Curtis, S., Mayes, K., Cesarez M., Cohen, A., Hendrickson, D., Molina, T., Hansen, J., Oakley J., and G. Guillen. 2021. American Eel in Texas: Ongoing and Future Research. Annual meeting of the Southern Division of the American Fisheries Society. Virginia USA and Virtual.

Guillen, G. 2021. Environmental Institute of Houston Origins, Current Work and Future Opportunities: Climate Related Research, Education and Outreach. Presentation to the UHCL Leadership team. January 25, 2021. UHCL Houston, TX.

Hansen, J. and G. Guillen. 2020. Speckled Worm Eel (*Myrophis punctatus*) in Texas, a common, not so common species. Texas Academy of Science Annual Meeting. Tyler, TX.

McDaniel, S. and G. Guillen. 2020. Foraging Ecology of Bottlenose Dolphins (*Tursiops truncatus*) in Galveston Bay. Texas Academy of Science Annual Meeting. Tyler, TX.

Omar, M., J. Oakley and G. Guillen. 2020. Atlantic Rangia, *Rangia cuneata*, in Trinity Bay (Upper Galveston Bay): Ecology and growth in response to freshwater inflow. Texas Academy of Science Annual Meeting. Tyler, TX.

Fazioli, K., V. Mintzer, and G. Guillen. 2019. *In the path of floodwaters*: Short-term effects of Hurricane Harvey on bottlenose dolphins (*Tursiops truncatus*) in upper Galveston Bay, Texas. World Marine Mammal Conference: Barcelona, Spain 2019.

Guillen, G.J. Oakley, C. Scanes and M. Gordon. 2019. Coast-Wide Characterization of Saltmarsh Topminnow – *Fundulus jenkinsi* Populations in Texas. Meeting of the Southern Division of the American Fisheries Society. Galveston, TX. Jan. 2019

Oakley, J., F. Gelwick, M. Lawing, A. Armitage and G. Guillen. 2019. A Coastal Health Index for The Northern Gulf Of Mexico; How Fisheries Contribute To Measuring Ecosystem Health. Meeting of the Southern Division of the American Fisheries Society. Galveston, TX. Jan. 2019

Scanes, C., Guillen, G., J. Oakley, and M. Gordon. 2019. Using National Surveys to Evaluate the Condition of Texas State-Wide Fish Communities. Meeting of the Southern Division of the American Fisheries Society. Galveston, TX. Jan. 2019.

Hansen, J.R., J. Oakley, S. Curtis and G. Guillen. 2019. The Hunt for the Elusive American Eel in Texas: A Story

about Eels and Blue Crab. Meeting of the Southern Division of the American Fisheries Society. Galveston, TX. Jan. 2019.

Guillen, G., J. Oakley, C. Scanes, and M. Gordon. 2018. Characterization of Saltmarsh Topminnow - *Fundulus jenkinsi* populations along the Texas coast. Gulf Estuarine Research Society. Galveston, Texas. November 2018.

Oakley, J., F. Gelwick, M. Lawing, A. Armitage and G. Guillen. 2018. Developing a coastal health index for the northern Gulf of Mexico. Gulf Estuarine Research Society. Galveston, Texas. November 2018.

Guillen, G. and M. Mokrech. 2018. Mapping intertidal oyster reefs using side-scanning sonar and drone systems. Gulf Estuarine Research Society. Galveston, Texas. November 2018.

Hansen, J.R., J. Oakley, S. Curtis and G. Guillen. 2018. Hunting for the elusive American Eel along the Texas coast. Gulf Estuarine Research Society. Galveston, Texas. November 2018.

Guillen, G., C. Scanes, M. Gordon, T. Swanson, and J. Oakley. 2018. The influence of freshwater inflow on the estuarine nekton of a tidal river. Texas Chapter of the American Fisheries Society. College Station, Texas. January 2018.

Warner, K.J., G. Guillen and T. Hardy. 2018. Instream habitat use of invasive armored catfishes in the Upper San Marcos River. Texas Chapter of the American Fisheries Society. College Station, Texas. January 2018.

Oakley, J., C. Scanes, M. Gordon, and G. Guillen. 2018. Recovery of Galveston Bay saltmarsh nekton communities after Hurricane Harvey. Texas Chapter of the American Fisheries Society. College Station, Texas. January 2018.

Buhler, K., and G. Guillen. 2018. Comparing habitat types and fish assemblages in the Flower Garden Banks mesophotic zone. Texas Chapter of the American Fisheries Society. College Station, Texas. January 2018.

Peer Reviewed Publications

Garcia, K.L., Gordon, M., Munscher, E.C., Ricardez, V., Franklin, C.J., and **Guillen, G.J.** 2025. Use of a handheld metal detector to evaluate metal ingestion in the alligator snapping turtle, *Macrochelys temminckii* (Troost, 1835). Herpetology Notes 18(2025):667–670.

Oakley, J.W., Swinford, J., Curtis, S., Anderson, J., Sak, A., Underwood, E., Davis, S., Fredrickson, A., and **Guillen, G.** 2025. Eel ramps and environmental DNA reveal a preliminary recruitment window of the American eel in Texas. Marine and Coastal Fisheries 17(3):1-11. doi: 10.1093/mcfafs/vtaf007

Doyal, S.L., Oakley, J.W., and Guillen, G. 2024. Dwarf seahorse (*Hippocampus zosterae*) density, distribution, and habitat use in Texas. Estuaries and Coasts. doi: 10.1007/s12237-024-01423-x

Gordon, M., **Guillen, G.J.**, Franklin, C.J., and Ricardez, V. 2021. *Malaclemys terrapin littoralis* (Texas Diamond-backed terrapin). Malocclusion (prognathism). Herpetological Review 52(4):847-848.

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Graduate Student Theses and Research Projects Supervised

Kaylei Chau –2024. Constructed Floating Wetland Treatment Systems.

Danielle DeChellis –2024. Analysis of population status of Western Chicken Turtle in Texas. Research Project.

Pierce Kean –2024. Population assessment of American Eel in Texas using eDNA and plankton sampling. Thesis converted to research project, and transferred to Dr. Cindy Howard as advisor Spring 2024.

Emily Cox. 2024 .— Microplastics in Galveston Bay. Research Project.

Jason Nagro. 2023 – Effectiveness of drones for freshwater turtle surveys aimed toward detecting the cryptic Western Chicken Turtle (*Deirochelys reticularia miaria*). M.S. Thesis. University of Houston Clear Lake, Houston, TX

Catherine Lescher. 2022. Habitat use, distribution, and density of Dwarf Seahorse (*Hippocampus zosterae*) populations along the Texas Gulf Coast. M.S. Thesis. University of Houston Clear Lake, Houston, TX

Mahmoud Omar. 2020. Modelling the Growth of Atlantic Rangia, *Rangia cuneata*, in response to freshwater inflow, Trinity River Delta, Galveston Bay. M.S. Thesis. University of Houston Clear Lake, Houston, TX.

Justin Hansen. 2020. Speckled Worm Eel (*Myrophis punctatus*) in the Estuarine Waters of Texas: a “Dove Tale” of the Elusive American Eel (*Anguilla rostrata*). M.S. Thesis. University of Houston Clear Lake, Houston, TX.

Tyler Swanson. 2019. Nekton community characterization of the lower Brazos River with an emphasis on Atlantic croaker, *Micropogonias undulatus*, trophic dynamics. M.S. Thesis. University of Houston Clear Lake, Houston, TX.

Kaitlin McGraw. 2019. Qualitative Characterization of Habitat Types and Fish assemblages of the Flower Garden Banks Mesophotic Zone. M.S. Thesis. University of Houston Clear Lake, Houston, TX.

Kris Warner. 2018. Instream habitat use and management of invasive armored catfishes in the upper San Marcos River. M.S. Thesis. University of Houston Clear Lake, Houston, TX.

Anna Vallery. 2018. Assessment of shorebirds and wading birds in Galveston Bay using conventional and UAV technologies. M.S. Thesis. University of Houston Clear Lake, Houston, TX.

Allison Norris. 2017. A Mesocosm Study of the Impact of Invasive Armored catfish (*Pterygoplichthys* sp.) on endangered Texas Wild Rice (*Zizania texana*) in the San Marcos River. M.S. Thesis. University of Houston Clear Lake, Houston, TX.

Nicole Morris. 2016. Mercury monitoring in Texas estuaries: A concurrent study with the National Coastal Condition Assessment. M.S. Thesis. University of Houston Clear Lake, Houston, TX

Kristin Vale. 2016. Investigation of factors influencing Piping Plover distribution along the upper Texas Coast. M.S. Thesis. University of Houston Clear Lake, Houston, TX

Michael Lane. 2016. Spatial patterns in Texas lotic fish communities. M.S. Thesis. University of Houston Clear Lake, Houston, TX.

Josi Robertson. 2016. Distribution, habitat, and life history characteristics of the saltmarsh topminnow (*Fundulus jenkinsi*). M.S. Thesis. University of Houston Clear Lake, Houston, TX.

Bryan Alleman. 2015. The Influence of Prey Availability and Habitat on the Distribution and Food Habits of Diamondback Terrapin (*Malaclemys terrapin littoralis*) in Texas. M.S. Thesis. University of Houston Clear Lake, Houston, TX. December 2015.

Laila Melendez Pronker. 2014. Growth Parameterization for Blue Crabs, *Callinectes sapidus*, of Galveston Bay, Texas. M.S. Thesis. University of Houston Clear Lake, Houston, TX

Rachel George. 2014. Nesting ecology of the Texas Diamondback Terrapin (*Malaclemys terrapin littoralis*). M.S. Thesis. University of Houston Clear Lake, Houston, TX

Amanda Anderson. 2014. The factors affecting productivity and parental behavior of American Oystercatchers in Texas. M.S. Thesis. University of Houston Clear Lake, Houston, TX

Alex Miller. 2014. Characterization of the Brazos River Estuary. M.S. Thesis. University of Houston Clear Lake, Houston, TX

Sybil Glenos. 2013. A comparative assessment of the genetic variation of diamondback terrapin (*Malaclemys terrapin littoralis*) in Galveston Bay, Texas in relation to other northern Gulf Coast populations. M.S. Thesis. University of Houston Clear Lake, Houston, TX

Daniel Barcenas. 2013. Use of Stable Isotope Analyses to describe Trophic Dynamics of Aquatic Ecosystems in Galveston Bay, Texas. M.S. Thesis. University of Houston Clear Lake, Houston, TX

Emma Clarkson. 2012. The Diamondback Terrapin – a comparison of nocturnal and diurnal activity, range, habitat selection, and behavior. M.S. Thesis. University of Houston Clear Lake, Houston, TX

Greg Knothe. 2012. The influence of urbanization on streams: the use of GIS spatial analysis to study land use influence on fish communities, water quality and physical habitats in Southeast Texas. M.S. Thesis. University of Houston Clear Lake, Houston, TX

Michael Franks. 2012. Determination of Spatial Patterns of Total Mercury Concentrations in Recreationally Important Offshore Fishes of the Gulf of Mexico. M.S. Graduate Project. University of Houston Clear Lake, Houston, TX

Kelli Haskett. 2011. Abundance and movement of the Texas Diamondback Terrapin in the Deer Island complex, Galveston, Texas. M.S. Thesis. University of Houston Clear Lake, Houston, TX

Diana Ramirez. 2008. The relationship between environmental characteristics and invasive fish species in selected tributaries within the Clear Lake watershed during summer months. M.S. Graduate Project Report. University of Houston Clear Lake, Houston, TX

Julie Sandefur. 2008. Evaluation of the influence of various stream substrates on fish communities within Harris County. M.S. Graduate Project Report. University of Houston Clear Lake, Houston, TX

External Thesis and Dissertation Committee Member:

J.W. Kennedy. 1999. Stratigraphic evidence for the occurrence of flooding on the Brazos River, Old River Ranch Meander Bend, Burleson County, Texas. M.S. Thesis. University of Houston, Houston, TX

Beth Silvy. 2015. Determining factors affecting Dermo disease (*Perkinsus marinus*) in populations of

Eastern oysters (*Crassostrea virginica*) in Galveston Bay, Texas (Co-chair with Dr. Fran Gelwick). M.S. Thesis. Texas A&M University, College Station.

Jenny Oakley. 2019. Coastal Health Index for the Northern Gulf of Mexico: Moving towards Meaningful Ecosystem Based Management. (Co-chair with Dr. Fran Gelwick) Ph.D. Dissertation. Texas A&M University, College Station.

Current Graduate Student Research Supervision

University of Houston Clear Lake - 1

Kelly Garcia – Enrolled Fall 2021. Assessment of Alligator Snapping Turtle Populations in Texas.

Academic Courses Taught – UHCL (1993-98 and 2004-Present)

Graduate:

Research Project and Seminar in Biology - BIOL 6838. 3hrs.
Wetlands – GEOL/ENSC 5333. 3hrs.
Coastal and Estuarine Ecology – BIOL 5532. 3hrs.
Limnology and Aquatic Biology – BIOL 5537 and ENSC 5235. 3hrs.
Limnology and Aquatic Biology Lab – BIOL 5517 1 hr
Population and Community Dynamics – BIOL 5234. 3 hrs.
Ichthyology – BIOL 5235. 3 hrs.
Ichthyology Lab – BIOL 5215. 1 hr.
Water Management – ENVR 5532. 3 hrs

Undergraduate: (1993-98 and 2004-Present)

Freshwater Biology – BIOL 4314 3 hrs.
Freshwater Biology Lab – BIOL 4314 1 hr.
Marine Biology – BIOL 3311. 3 hrs.
Biology of Fishes – BIOL 4313. 3 hrs.
Biology of Fishes Lab – BIOL 4113. 1 hr.
Seminar in Biology – BIOL 4728. 3 hrs.
Ecology – BIOL 4311. 3 hrs.

Courses Taught – Texas A&M University (Galveston Campus - 1991-94 and 2005-2018)

Undergraduate:

Marine Fisheries Management – MARB 445. 3 hrs
Fisheries Population Dynamics – MARB 460. 4 hrs (3 lect/3 lab)

Graduate:

Marine Biological Resources MARB 620. 3 hrs.

Courses Taught – University of Houston (1998 – 2 semesters)

Undergraduate:

Ecology – BIOL 4311. 3 hrs.

Courses Taught – San Jacinto College South (1995-96; – 3 semesters)

Undergraduate:

Zoology – 3hrs

Courses Taught – Texas A&M University (1982-1983) Lab TA

Undergraduate:

Freshmen Biology Laboratory – 1hrs (2 session per semester – 3 semesters)

Faculty Service: University Committees

CSE distinguished staff award committee – 2019.
Environmental Science Program Committee – 2005-present
Biology Program Committee – 2005-present
IACUC member 2005-2021
ENSC Faculty Promotion and Tenure Committee – 2019
Provost Search Committee – 2018
ENSC Faculty Promotion Committee - 2017
ENSC Instructor Search Committee – 2016
SCE Dean's Search Committee - 2012
Geology Faculty Search Committee – 2010-14
Biology Faculty Search Committee – 2010

Service: Recent External Reviewer Experience - Journals

Texas Academy of Science
Journal of Coastal Research
American Fisheries Society
Coastal and Estuarine Research Federation
Journal of Coastal Research
Hydrobiologia

Service: Recent External Agency Experience - Project Review Panel

Texas Sea Grant
Texas Water Development Board – Galveston Bay Studies
TCEQ Galveston Bay Estuary Program – Galveston Bay Studies 2004-present
TGLO - Coastal Coordination Advisory Committee (CCAC) – appointed by TGLO Commissioner 2022- present

Service: Recent External Reviewer Experience - Research Project Proposals

NOAA MARFIN
NOAA Salton-Kennedy Competitive Research Program
Galveston Bay Estuary Program – Chair of the Monitoring and Research Committee.
Legislative-Citizen Commission on Minnesota Resources Review – appointed 2023
TGLO - Coastal Coordination Advisory Committee (CCAC) - appointed by TGLO Commissioner 2022- present

Service: Recent Program Reviewer Experience

USGS/Oklahoma State University – Southeastern Central Climate Center – AFS Committee

Service: Community

Hosted/Moderated “Bay Area Storm Surge Flood Forum” Thursday, March 7, 2019
Hosted/Moderated “Pollution Here and Your Health Forum” Tuesday, June 25, 2019
Hosted/Moderated “Extreme Weather and Changing Climate Town Hall “May 15, 2025

Service: Professional Affiliations

Chair of the Galveston Bay Estuary Program- Monitoring and Research Committee

Member of the Galveston Bay Estuary Program – Water Quality Committee
Member of the Galveston Bay Estuary Program – Natural Resource Committee
Current Member of Interagency HGAC Clean Rivers Program Advisory Committee
Current Member of the Trinity and San Jacinto Rivers and Galveston Bay Basin and Bay Expert Science Team (BBEST) – Environmental Flows Committee: 2008-present.
Current Member of the Brazos River (BBEST) – Environmental Flows Committee: 2011-present.
Current Member of the Gulf of Mexico Alliance Wildlife and Fisheries Work Group
Current Member of the American Fisheries Society Continuing Education Committee
Current Member of the SETAC Continuing Education Committee
Current Member of the Gulf of Mexico Alliance Water Resources Work Group
Current Member of the Gulf of Mexico Alliance Monitoring and Data Work Group
Current Member of the American Institute of Fishery Research Biologists
Current Member of the American Fisheries Society (AFS)
Current Member of the Education, Water Quality and Early Life History Sections of AFS.
Current Member of the Pollution Committee of the Southern Division of the AFS - (Chairman 1988-1991; 2015-19)
Current Member of the Ecological Society of America
Current Member of the Society of Environmental Toxicologists and Analytical Chemists
Current Member of the American Society of Ichthyologists and Herpetologists
Current Member of the Coastal and Estuarine Research Federation
Current Member of the Texas Academy of Science
Past Chair of Local Arrangements – 125th Annual Meeting of the Texas Academy of Science – February 2022 Meeting, UHCL, Houston, TX.
Past Chair of Local Arrangements – Southern Division of the American Fisheries Society – January 2019 Meeting, Galveston, TX.
Past Chair: Freshwater Science Section of the Texas Academy of Science – 2015-2016.
Past Chair: Marine Science Section of the Texas Academy of Science – 2016 - present
Past President – Texas Chapter of the American Fisheries Society – 2011-2013.
Past President - Humboldt Chapter of the American Fisheries Society – 2001-2002
Past Member of the Gulf of Mexico Fishery Management Council - Interagency Scientific and Statistical Advisory Committee 1993-1997 and 2005-2009.
Past Member of the Interagency Klamath River Technical Advisory Team (stock assessment and harvest management advisory committee). 2000-2004
Past Member of the Joint MMS/Industry Deep-Water Spill Modeling Group
Past Co-chair of the Interagency Klamath River Instream Flow Study Technical Advisory Group.
Past Member of the Dioxin TMDL Stakeholder Group
Past Member of the Gulf of Mexico Alliance Nutrients Task Force
Past Member of the Gulf of Mexico Alliance Water Quality Task Force
Past Member of the Houston-Galveston Area Riparian Restoration Expert Panel – Houston Galveston Area Council

Professional Certifications and Recognition: Year Awarded

AFS Certified Fisheries Scientist- 1988
ESA Certified Senior Ecologist - 1997
Award of Special Recognition – Western Division of the American Fisheries Society. 2004.
Who's Who among Americas Teachers. 1998. ID# 1753928-5C1-0-11711
Award of Special Recognition – Fisheries Educator – Texas Chapter of the AFS -2013
Award of Recognition – President TCAFS – Texas Chapter of the AFS – 2013
Faculty Research Million Dollar Club – UHCL – 2014
Nominated for the UHCL Piper award for teaching by students – 2013.
Faculty Research 5 Million Dollar Club – UHCL – 2018

Professional Development: Courses and Year Completed.

YMCA Scuba diving course- Basic Certification: 1976.
Water Pollution Abatement from Oil field wastes. Workshop- Texas Railroad Commission: 1984.
Oil Spill Control Course- Texas A&M Extension Service: 1984.
Hazardous Material Control Course- Texas A&M Extension Service: 1986.
State of Texas Governors - First-line Management School: 1986. Austin, Texas.
S.L. Ross - MIRG Dispersant Use Workshop. Austin, Texas 1986.
Hazardous Waste Management Course - Texas A&M Extension Service. 1987. Houston, Texas.
Boating Safety Course. USPS. 1988. Houston, Texas.
U.S. Dept. of Interior. 1988. Natural Resource Damage Assessment Training Session- Austin, Texas 1988.
EPA Rapid Bioassessment Workshop- Denton, Texas 1989.
University of North Texas Effluent Biomonitoring Workshop- Denton, Texas 1989.
EPA Rapid Bioassessment Seminar- Bandera, Texas 1989.
USFWS HEP Certified Training Course - Fort Collins, CO 1990.
Wetlands Training Institute - Wetland Delineation Training Course - Houston, TX 1991.
EPA Water Quality Standards Academy - Minneapolis, MN 1995
Design of Water Quality Monitoring Systems - CSU, CO 1995
Fish Disease Short course: USFWS. Va. Tech. Blacksburg, Va. 1997.
Field Methods for Physical Habitat Simulation System: IFIM Course National Biological Survey. CSU. 1997.
Basics of Ecological Risk Assessment - SETAC Conference 1998. Hartford, CT.
Fish Histology Short Course: USFWS. Shepherdstown, WV 1998
Scientific Training for Oil and Chemical Spills. 1999. NOAA HAZMAT. Seattle, WA.
Ecological Risk Assessments of Oil Spills Workshop 1999 - NOAA. International Oil Spill Conf. Seattle, WA.
Instream flow modeling using RHABSIM. 2000. FWS. Sacramento.
Multivariate Statistical Analysis. 2000. FWS-NCTC. Sacramento.
Stream Habitat Assessment - 2001. FWS-NCTC Shepherdstown, WV
2D Instream Flow Assessment Models - 2001. USGS, Fort Collins, CO.
Assessment of Fish Health 2001. USFWS Contaminants Workshop. FWS. Yosemite, CA.
Otolith Evaluation Techniques. USFWS Contaminants Workshop. 2001. FWS. Yosemite, CA.
Applied Fluvial Geomorphology - 2002. FWS-NCTC. Shepherdstown, WV.
Geostatistics for environmental, ecological, and site characterization studies. SETAC Conference. 2002.
Analysis of Telemetry Data - 2002. FWS-NCTC Shepherdstown, WV
EcoPath Modeling Workshop. National Marine Fisheries Service. December 2004. Galveston, Texas.
Index of Hydrological Alteration. November 2005. Nature Conservancy. San Marcos, Texas.
Early Life History of Marine Fishes. (3 week workshop). August 2006. University of New England, Maine.
Larval Fish Sampling and Identification Workshop. September 2006. AFS. Paul Smith College, NY.
Introduction to Aquatox. SETAC. 2008. Tampa, Florida.
HEP Procedures. USFWS. 2008. Houston, Texas
Introduction to MesoHabSim. Instream Flow Council Meeting. 2008 San Antonio, Texas.
EcoPath with EcoSim Modeling Workshop. 2009. University of British Columbia, Vancouver, B.C., Canada.

Introduction to the R programming for fisheries scientists. 2009. Annual Meeting of the American Fisheries Society, Nashville, TN.
Introduction to Instream Flow Analysis using IHA and HEFR. TPWD. 2009. Austin, Texas
Use of Non-destructive methods for sampling contaminants in Wildlife. 2009. SETAC Workshop. N.O., La.
EcoPath with EcoSim Modeling Workshop. 2009. University of British Columbia, Vancouver, B.C., Canada.
Taxonomy and Ecology of Freshwater Algae. 2009, Part 1: Green Algae. San Marcos, Texas.
Taxonomy and Ecology of Freshwater Algae. 2010, Part 2: Diatoms and Dinoflagellates. San Marcos, Texas.
Taxonomy and Ecology of Freshwater Algae. 2011, Part 3: Algal Ecology. San Marcos, Texas.
Surgical Techniques for Fishes. 2011. American Fisheries Society Meeting. Pittsburgh, PA.
Multivariate Analysis of Community Data with PC-ORD training workshop. 2012. J.E. Peck. Oregon.
PRIMER multivariate analysis training workshop. 2012. Jacksonville, FL
Fish Population Dynamics – 2013. USFWS NCTC. Stockton, CA

Non-destructive Genetic Analysis Methods – 2013. Smithsonian-Mason School of Conservation. Front Royal, VA
Freshwater Mussel Identification and Ecology Workshop – 2014. 3rd Annual Mussel Symposium, Kerrville, TX
Applied Environmental Statistics – 2014. Practical Stats. College Station, TX
Foundational Workshop on Critical Thinking and Teaching for Critical Thinking – 2014. UHCL. Houston, TX.
Chemical Immobilization of Animals (16 hrs.) March 15, 2015, Safe Capture International Inc. Brenham, TX.
Estimating Animal Abundance and Occupancy MCCS 0511 (April 27-May 8, 2015). Smithsonian-Mason School of Conservation. Front Royal, VA.
Bayesian Methods in Fisheries Science - I and II. Portland, Oregon. AFS Annual Meeting. August 2015.
PRIMER v7 multivariate analysis training workshop. 2015. Seattle, WA
Advanced PRIMER v7 multivariate analysis training workshop. 2016. Corpus Christi, TX.
UAV Workshop – Southwest Stream Restoration Conference. 2016. San Antonio, TX.
PERMANOVA Training workshop. College of William and Mary. 2017.
PC-ORD. Training Webinar (5 days). 2017.
Mental Health First Aid for Students (1 day). UHCL. 2019.