

CURRICULUM VITAE

Jenny W. Oakley

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EDUCATION

- Ph.D. Student, Texas A&M University, Marine Biology Interdisciplinary Program**
Marine Biology Interdisciplinary Program. July 2014 – Present Current GPA: 4.0/4.0
- M.S. Biology, Texas A&M University-Corpus Christi.**
Emphasis in Fisheries Ecology. 2008 GPA: 3.91/4.0
- B.S. Biology, Texas A&M University-Corpus Christi.**
Emphasis in Marine Science, Minor in Chemistry. 2006 GPA: 3.43/4.0

PROFESSIONAL BACKGROUND

September 2010-Present

Environmental Scientist

Environmental Institute of Houston, University of Houston-Clear Lake, Houston TX 77058

- Manage and coordinate multiple large-scale research projects
- Manage diverse team of research and laboratory staff and student workers
- Grant and proposal writing
- Research budget development and management
- High-level statistical data analysis and technical writing

January 2015-May 2015

Graduate Assistant Non-Teaching (GANT)

Texas A&M University, College Station, TX 77845

- Graded 1 graduate (WFSC 613) section of Animal Ecology (writing intensive)
- Graded 2 undergraduate (WFSC 403) sections of Animal Ecology (writing intensive)

February 2008-September 2010

Senior Environmental Research Associate

Environmental Institute of Houston, University of Houston-Clear Lake, Houston TX 77058

- Manage contract research projects
- Coordinate field activities
- Grant and final report writing

January 2007-February 2008

Graduate Research Associate

Texas A&M University-Corpus Christi, Corpus Christi, TX 78412

- Fisheries Ecology Laboratory under Dr. Greg Stunz.
- Identification of marine fish and invertebrates for community structure studies, various field work
- stomach content analysis, and prepare samples for $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ stable isotope analysis

August 2006-January 2007

Graduate Teaching Assistant (TA)

Texas A&M University-Corpus Christi, Corpus Christi, TX 78412

- Taught 3 sections of introductory Biology I (non-biology major students)
- Performed all laboratory preparations and grading.

May 2006-August 2006

National Coastal Assessment Internship (Intern Technician III)

Texas Parks and Wildlife Department, Corpus Christi, TX 78412

- Field equipment and sample collection preparation
- Proficiency in vehicle and boat maintenance and operation.

August 2004-March 2006

Laboratory Technician for Microbiological, Molecular Biology labs.

Texas A&M University-Corpus Christi, Corpus Christi, TX 78412

- Set up lab supplies for courses from Introductory Biology through Microbial Ecology.
- Inoculate and culture bacterial and fungal cultures.
- Operate autoclave and minor maintenance.

SELECTED PUBLICATIONS, REPORTS, AND PRESENTATIONS

Oakley, J.W., A. M. Lawing, G. J. Guillen, and F. Gelwick. 2018. DEFINING ECOLOGICALLY, GEOGRAPHICALLY, AND POLITICALLY COHERENT BOUNDARIES FOR THE NORTHERN GULF OF MEXICO COASTAL REGION: FACILITATING ECOSYSTEM-BASED MANAGEMENT. *Ocean and Coastal Management*. 154: 1-7.

Oakley, J.W., C. Scanes, M. Gordon, G. Guillen. 2018. RECOVERY OF GALVESTON BAY SALT MARSH NEKTON COMMUNITIES AFTER HURRICANE HARVEY. Texas Chapter of the American Fisheries Society. (Poster) January 26, 2018.

Guillen, G., A. Gordon, **J.W. Oakley**, M. Gordon, and N. Johns. 2017. 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. Texas Chapter of the American Fisheries Society. (Poster) January 26, 2018.

Guillen, G., A. Gordon, **J.W. Oakley**, and M. Mokrech. 2016. TRINITY RIVER DELTA AND UPPER TRINITY BAY RANGIA POPULATION ASSESSMENT. Final Report submitted to the National Wildlife Federation. EIH Technical Report 16-001:58.

Oakley, J.W., M. Gordon, and G. Guillen. 2016. NATIONAL AQUATIC RESOURCES SURVEYS: APPLICATIONS FOR WETLAND CONDITION MONITORING AND ASSESSMENT IN TEXAS. Society of Wetland Scientists Conference. (Oral) June 3, 2016 Corpus Christi, TX.

Oakley, J.W., M. Lawing, F. Gelwick, and G. Guillen. 2016. DEVELOPING A COASTAL HEALTH INDEX FOR TEXAS WATERS: MOVING TOWARDS MEANINGFUL ECOSYSTEM BASED MANAGEMENT. National Monitoring Conference. (Oral) May 4, 2016 Tampa, FL.

Oakley, J.W. 2016. DEVELOPMENT OF A COMPREHENSIVE BAY HEALTH INDEX FOR GULF STATES; MOVING TOWARDS MEANINGFUL ECOSYSTEM BASED MANAGEMENT. Marine Biology Interdisciplinary Program Retreat. (Oral) January 7, 2015 College Station, TX.

Curtis, S., **Oakley, J.W.**, Gordon, M., and Guillen, G. 2016. DEVELOPMENT OF METHODOLOGY TO VALIDATE FRESHWATER NEEDS OF THE BRAZOS RIVER ESTUARY. Texas Chapter of the American Fisheries Society, Kerrville, TX. Presentation.

- Robertson, J., Curtis, S., **Oakley, J.W.**, and Guillen, G. 2016. GROWTH AND REPRODUCTION OF THE SALT MARSH TOPMINNOW (*FUNDULUS JENKINSI*). Texas Chapter of the American Fisheries Society, Kerrville, TX. Presentation.
- Guillen, G., J. Robertson, **J.W. Oakley**, and S. Curtis. 2015. DISTRIBUTION, ABUNDANCE, AND HABITAT USE OF THE SALT MARSH TOPMINNOW (*FUNDULUS JENKINSI*). Final Report to Texas Parks and Wildlife Department. EIH Technical Report 15-002:61.
- Curtis, S., **Oakley, J.W.**, Gordon, M., and Guillen, G. 2015. INFLUENCE OF INSTREAM FLOW AND TIDES ON THE WATER QUALITY OF THE BRAZOS RIVER ESTUARY, TEXAS. American Fisheries Society, Portland, OR. Poster.
- Oakley, J.W.**, J. Simons, G.W. Stunz. 2014. SPATIAL AND HABITAT-MEDIATED FOOD WEB DYNAMICS IN AN OYSTER DOMINATED ESTUARY. *Journal of Shellfish Research* 33: 841-855
- Guillen, G., Mokrech, M., **Oakley, J.W.**, and Moss, A. 2014. ARMAND BAYOU WATER QUALITY IMPROVEMENT GRANT: UHCL CREATED STORMWATER TREATMENT WETLAND. EIH Report 13-003, 137 pp.
- Lane, M., **Oakley, J.W.**, Guillen, G., and Curtis, S. 2014. PRELIMINARY ANALYSIS OF SPATIAL PATTERNS IN TEXAS LOTIC FISH COMMUNITIES. Joint Annual Meeting of the Oklahoma & Texas Chapters American Fisheries Society, Pottsboro, TX. Poster.
- Guillen, G., **J.W. Oakley**, M. Mokrech. 2013. BASELINE AQUATIC COMMUNITY SURVEY AT RESTORATION STREAM SEGMENTS (P138-00-00, T101-0-00, L100-00-00) Final Report submitted to Harris County Flood Control District, Houston, TX. EIH Technical Report 13-001:156.
- Guillen, G., **J.W. Oakley**, A. Moss, M. Shepard. 2013. AQUATIC LIFE MONITORING STUDY. Results report submitted to Houston-Galveston Area Council, Houston TX
- Oakley, J.W.** 2013. NATIONAL RIVERS AND STREAMS ASSESSMENT 2013-2014. 27th Annual SWQM Workshop, Austin, TX. Presentation.
- Guillen, G. and **Oakley, J.W.** 2013. BYCATCH MORTALITY AND CRITICAL LIFE HISTORY PARAMETERS OF THE TEXAS DIAMONDBACK TERRAPIN. EIH Report 13-004, 151 pp.
- Guillen, G., and **Oakley, J.W.** 2013. RESPONSE OF AQUATIC COMMUNITIES IN URBAN AREAS OF HARRIS COUNTY TO STREAM SUBSTRATE: 2007-2010. EIH Report 13-005, 153 pp.
- Guillen, G., **J.W. Oakley**, M. Shepard, and K. Vale. 2012. SEDIMENTATION STUDY OF DICKINSON BAYOU TIDAL (SEGMENT 1103). Final report submitted to Texas Commission on Environmental Quality, Austin, TX
- Oakley, J.W.**, Guillen, G., Shepard, M., and Vale, K. 2012. TEXAS WETLAND CONDITION ASSESSMENT. Restore America's Estuaries, Tampa, FL. Poster.
- Guillen, G., M. Mokrech, **J.W. Oakley**, M. Shepard, K. Vale, and A. Moss. 2012. HARRIS COUNTY TEXAS COMPREHENSIVE TURBIDITY STUDY. Results report submitted to Harris County Flood Control District, Houston TX

- Guillen, G., M. Mokrech, **J. Wrast**. 2011. TEXAS NUTRIENT CRITERIA DEVELOPMENT SUPPORT PROJECT. EIH Technical Report submitted to the Texas Commission on Environmental Quality, Austin, TX. 11-001:679.
- Guillen, G., **J. Wrast**, D. Ramirez, and Pl Lokanath. 2010. GEOGRAPHIC DISTRIBUTION AND HISTORICAL TRENDS OF FISH SPECIES WITHIN THE TRINITY RIVER BASIN, TEXAS. (Poster) Texas Chapter, American Fisheries Society, Athens, TX
- Guillen, G., **Wrast, J.**, and Ramirez, D. 2010. CONSTRUCTION OF RIVER FISH COMMUNITY GUILDS USING LIFE HISTORY CHARACTERISTICS AND MULTIVARIATE CLASSIFICATION METHODS: CASE STUDY TRINITY RIVER, TEXAS. In Texas Chapter of the American Fisheries Society, Athens, TX. Poster.
- Wrast, J. L.**, G. Guillen, M. Mokrech, and E. McCarthy. 2010. DEVELOPMENT OF A HABITAT SUITABILITY INDEX FOR THE TEXAS DIAMONDBACK TERRAPIN, *MALACLEMYS TERRAPIN LITTORALIS*. (Poster) Restore America's Estuaries, Galveston TX
- Guillen, G., **J. Wrast**. 2010. FISHES AS SOURCES OF E. COLI BACTERIA IN WARM WATER STREAMS. EIH Technical Report Submitted to Texas AgriLife Research, Texas Water Resources Institute. 10-015:81.
- Guillen, G., Crossen, D., **Wrast, J.**, and Sutton, G. 2009. NUTRIENT DYNAMICS IN GALVESTON BAY AND POTENTIAL CYCLING WITHIN THE ECOSYSTEM AS IDENTIFIED BY RECENT STABLE ISOTOPE STUDIES AND HISTORICAL DATA. Gulf of Mexico Alliance Nutrient Criteria Research Framework Workshop, New Orleans, LA. Presentation.
- Guillen, G., **Wrast, J.**, and Ramirez, D. 2009. TRINITY RIVER BASIN BBEST INSTREAM FLOW STUDY: ECOLOGICAL OVERLAY FOR THE TRINITY RIVER FOR THE SUPPORT OF DEVELOPMENT OF INSTREAM FLOW RECOMMENDATIONS FOR ENVIRONMENTAL FLOWS. EIH Report 09-003, 178 pp.

*Full-text reports and presentations available for viewing at: <http://prtl.uhcl.edu/portal/page/portal/EIH/publications>

SELECTED PROFESSIONAL SKILLS

- United States Coast Guard Operator of Uninspected Passenger Vessel Captain's License, 2011-Present (Over 1,900 hours on the water)
- Wetland Delineation Certification, 2010
- SCUBA Certified, 2006 (Over 50 dives)
- Certified in First Aid, CPR, Oxygen Administration, and Wilderness First Aid
- Excellent computer skills in most popular software programs (e.g. Microsoft Word, Excel, PowerPoint, Access, Outlook, ArcGIS, Sigma Plot, EndNote, Primer, Adobe Professional, Minitab, R, etc.)
- Extensive field research and laboratory experience managing interdisciplinary teams of scientific professionals working on large-scale research and monitoring projects.

SELECTED LECTURE EXPERIENCE

University of Houston-Clear Lake: Environmental Institute of Houston, Surface Water Quality and Hydrology Monitoring Workshop Trainer/Professional Development Course Instructor (April 23-26, 2018)

University of Houston-Clear Lake: Guest Lecture for Biology of Fishes class: “Zoogeography” (November 14, 2017)

University of Houston-Clear Lake: Guest Lecture for Research Methods class: “PowerPoint Pitfalls” and “Aquaculture” (March 1, 2017)

University of Houston-Clear Lake: Environmental Institute of Houston, Surface Water Quality and Hydrology Monitoring Workshop Trainer/Professional Development Course Instructor (March 14-17, 2016)

University of Houston-Clear Lake: Guest Lecture for Ichthyology class: “Modern Bony Fishes” (October, 20 2015)

Environmental Protection Agency: National Coastal Condition Assessment, Region 2 (Newark, NJ) Training: Fish collection and processing, and data collection trainer and presenter. (May 12-14, 2015)

Environmental Protection Agency: National Coastal Condition Assessment, Region 6 (Grande Isle, LA) Training: Fish collection and processing trainer and presenter. (April 28-30, 2015)

Houston-Galveston Area Council: Clean Waters Initiative, In Stream Water Quality monitoring and Data collection. Oral Presentation: “Federal and State In-Stream Water Quality Monitoring” (April 1, 2015)

University of Houston-Clear Lake: Guest Lecture for Wetland Ecology class: “National Wetland Condition Assessment” (February 26, 2013)

REFERENCES

Dr. Frances Gelwick
Associate Professor, Wildlife and Fisheries Sciences
Texas A&M University, 110J Heep Laboratory Bldg. College Station, TX 77842
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918-671-1244

Dr. George Guillen
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