

# CURRICULUM VITAE

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## **Cory M. Scanes**

Environmental Institute of Houston  
University of Houston-Clear Lake  
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### **EDUCATION**

TEXAS STATE UNIVERSITY – San Marcos, Texas  
*M.S. Student in Aquatic Resources*, August 2014 – Present  
~ GPA 3.83

TEXAS STATE UNIVERSITY – San Marcos, Texas  
*B.S. Biology, Minor in Business Administration*, 2014  
~ GPA 3.63, Magna Cum Laude

### **PROFESSIONAL BACKGROUND**

ENVIRONMENTAL INSTITUTE OF HOUSTON, University of Houston-Clear Lake, Houston, Texas

-Senior Research Associate, July 2016 – Present  
+ Coordinate field sampling and personnel and conduct data management for contract research projects  
+ Maintain research equipment, vehicles, and vessels

TEXAS STATE UNIVERSITY, San Marcos, Texas  
-Lab Instructor, September 2013 – May 2016

#### *2411 Zoology*

+ Instructed sections in anatomy and morphology of animals ranging from protozoans to mammals using methods such as microscope use and dissection.

#### *1130 Functional Biology*

+ Instructed sections in general laboratory methods and safety practices including handling of hazardous chemicals, introductory scientific analysis (i.e., microscope observation, experimental design and implementation), and basic scientific writing.

#### *1131 Organismal Biology*

+ Instructed sections in basic biological concepts (i.e., Mendelian genetics, evolutionary mechanisms, field observation, population ecology) and in applications including scientific writing and experimental design.

TEXAS STATE UNIVERSITY, San Marcos, Texas  
-Research Assistant, November 2012 – June 2016

#### *Aquatic and Fisheries Sciences*

+ Lead a team of researchers in biomonitoring fish communities, including the endangered fountain darter, in spring-fed rivers (Comal and San Marcos) using SCUBA and seining techniques; conduct statistical analyses on collected data and write reports; assess integrity of the fish community such as relative abundance, species richness, and habitat associations of fishes; assess habitat qualities (i.e., vegetation, substrate) and water quality parameters (i.e., temperature, pH, conductivity, dissolved oxygen)

- + Aid in observations of flow effects on the biotic community in the Brazos River drainage basin, in accordance with State of Texas legislation, utilizing net seining and electroshocking (fishes), hand sampling riffles (mussels), and Hess sampling (invertebrates), and laboratory observations of fish health by length and weight measurements, gut fullness, and hepatic weight

#### *Behavioral Ecology*

- + Conducted laboratory study utilizing paired tests of interspecific association preference of female *Poecilia formosa* and *Poecilia mexicana* (unpublished) – female preference when given a choice between conspecific or heterospecific females; performed regular feeding and tank care for mollies, sunfish, and guppies.

#### PORT MANSFIELD FISHING TOURNAMENT – Port Mansfield, Texas

Volunteer, July 2015

- + Conducted entry and organization of tournament data in Excel and assisted officials in determination of category winners
- + Performed dockside intake of participants' catches, identification of bay and deepwater fishes, measuring and weighing of fish, and gut analysis on suspicious fish weights based on total length.

#### ZARA ENVIRONMENTAL, LLC, Manchaca, Texas

Field technician, May 2014 – August 2014

- + Assisted with enhancing groundwater recharge in karst environments by constructing cement cave gates and excavating sediment (gravel, sand, and silt) and large boulders from sinkholes.

#### ALASKA'S BEARCLAW LODGE, Aleknagik, Alaska

*Fishing guide and lodgehand*, Seasonal June 2007 – September 2009

- + Guided and instructed fisherman of varying levels of experience in fly fishing and spin fishing while operating a tiller-handle outboard flat-bottom boat on numerous rivers and lakes
- + Conducted fishing ventures with sustainable practices of catch-and-release and observing bag limits on native species
- + Performed various maintenance tasks on lodging facilities, boats, and gear

### **PRESENTATIONS**

**Scanes C., D. Ruppel, B. Littrell, T. Bonner, 2016.** Fish community and habitat assessments within an urbanized spring-fed stream of the Edwards Plateau. Texas Chapter American Fisheries Society, Kerrville, Texas. (Oral presentation)

Craig C., **C. Scanes**, J. Maikoetter, T. Bonner. 2016. Life-history characteristics and diversification within freshwater fishes of North America. Texas Chapter American Fisheries Society, Kerrville, Texas. (Poster presentation)

**Scanes C., D. Ruppel, B. Littrell, T. Bonner, 2015.** Fish community and habitat assessments within an urbanized spring-fed stream of the Edwards Plateau. American Fisheries Society, Portland, Oregon. (Poster presentation)

**Scanes C., D. Ruppel, B. Littrell, T. Bonner, 2015.** Fish community and habitat assessments within an urbanized spring-fed stream of the Edwards Plateau. Southwestern Association of Naturalists, San Diego, California. (Poster presentation)

### **PROFESSIONAL SKILLS**

- + Coursework reflected field observation methods, including fisheries and aquatic invertebrate techniques, plant surveys and identification, a 100-plant collection, and bird surveys
- + Experienced with statistical software (R, JMP Pro, Canoco, PRIMER, SigmaPlot)
- + Coursework in mapmaking and analysis in ArcGIS
- + Proficient with aquatic sampling techniques: fish observation and collection via bag and straight seine, backpack electroshocker, dipnetting, underwater SCUBA observation, laboratory gut analysis and hepatic condition; benthic macroinvertebrates via Hess seine
- + SCUBA certified; certified for research diving in Spring Lake (headwaters of San Marcos River)
- + ~1500 boat hours on a variety of small vessels (<25ft.)
- + Member of American Fisheries Society