

## Sara M. Rumbelow

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### SUMMARY

Motivated Anatomy and Physiology Instructor driven to encourage student success through scholarship and discovery within the biological sciences.

### EDUCATION University of Texas at Tyler, Tyler, TX

**M.S.** in Biology: August 2018

Thesis: **Physiological Responses of The State - Listed Texas Pigtoe to Environmental Stress**

### University of Texas at Tyler, Tyler, TX

**B.S.** in Biology: May 2016

### CURRENT RESEARCH INTERESTS

Physiology and the investigation of biophysical and biochemical relationships existing in living systems.

### TEACHING EXPERIENCE

- *University of Texas at Tyler – August 2019 to current* Lecturer
  - Human Anatomy and Physiology 1 and 2
  
- *Tyler Junior College – August 2018 to August 2019* Adjunct Professor
  - Introduction to Anatomy and Physiology, Anatomy and Physiology I and II
  - Introduction to Anatomy and Physiology is a broad course which studies the structure and function of human anatomy.
  - Anatomy & Physiology I is the first part of a two-course sequence that studies the structure and function of the human body including cells, tissues, and organs with an emphasis on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis.
  - Anatomy & Physiology II is the second part in a two-course sequence that focuses on the following body systems: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive, urinary, and reproductive (including human development and genetics).
  
- *University of Texas at Tyler – August 2016 to present*

#### Teaching Assistant

- Biology I and Biology II Lab
  - Taught two labs per semester (Fall 2016–Spring 2017, Summer 2018)
  - Lectured on topics in general biology and taught proper biology laboratory procedure
  - Wrote and administered practical exams and quizzes
  - Evaluated exams, laboratory reports, quizzes, presentations and assignments
  
- Plant Biology Lab
  - Taught two labs (Fall 2017)
  - Set up lab and taught identification of local species and different plant tissues
  - Administered field trips and taught field procedures

- Led the class in successful plant DNA extraction
- Graded laboratory exams, oral presentations, and scientific reports
- Anatomy and Physiology I Lab
- Taught two labs (Spring 2018) & one lab (Summer 2018)
- Aided in set up for all lab per week and taught human anatomy and principles of physiology in relation to the major organ systems of the human body
- Wrote and administered quizzes and exams
- Graded laboratory reports, quizzes, and exams

#### Zombie Apocalypse: Biology of Disease

- Assisted in administration of activities as needed for lecture taught by Dr. Stephanie Daugherty

### RESEARCH EXPERIENCE

- Developed laboratory experiments investigating the physiological response of freshwater mussels to environmental stress including glycogen extraction and analysis (2017-2018).
- Undergraduate research assistant in the lab of Dr. Brent Bill doing bacterial plasmid growth and PCR analysis (2015-2016).
- Aided in freshwater fish and invertebrate surveys at Fort Polk (2016).
- Aided in freshwater mussel surveys at University of Texas at Tyler (2016-2018).

### POSTER PRESENTATIONS

- Rumbelow, S. Mortality of the state – threatened Texas pigtoe (*Fusconaia askewi*) in response to environmental stress. Annual meeting of the Texas Chapter of the American Fisheries Society, 2018.

### AWARDS AND HONORS

- Graduate Award for Outstanding Service, 2017

### PERSONAL CONTACTS

**Dr. Lance Williams**, Professor/Department Chair, Department of Biology  
University of Texas at Tyler,  
Tyler, Tx 75799  
(903) 565 5878 ([lwilliams@uttyler.edu](mailto:lwilliams@uttyler.edu))

**Dr. Brent Bill**, Assistant Professor, Department of Biology,  
University of Texas at Tyler, Tyler, TX 75799  
(903) 565 5883 ([bbill@uttyler.edu](mailto:bbill@uttyler.edu))

**Ms. Jessica Coleman**, Lecturer, Department of Biology,  
University of Texas at Tyler, Tyler, TX 75799  
(903) 565 5889 ([jcoleman@uttyler.edu](mailto:jcoleman@uttyler.edu))

**Ms. Terri Van Schuyver**, Biology Laboratory Specialist,  
Tyler Junior College, Tyler, TX 75799  
(903) 510 2784 ([tvn@tjc.edu](mailto:tvn@tjc.edu))