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**Education**

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**2017**

**Master of Science – Biology**

Tarleton State University, Stephenville, Texas

Biology-focused coursework including; GIS, Conservation Biology, Aquatic Ecology, Fire Ecology, Plant-Animal Interactions, and Measuring Biodiversity

- Wrote research grant proposals
- Conducted field research of herpetofauna
- Trained undergraduates in herpetofaunal detection techniques and data collection

Thesis: A Herpetofaunal Survey of Two Sites in the Texas Cross Timbers Ecoregion, with Emphasis on Evaluation of Detection Method Effectiveness

Thesis advisor: Dr. Jesse Meik

Committee Members: Dr. Kristin Herrmann, Dr. Christopher Higgins

**2015**

**Bachelor of Science – Biology**

Tarleton State University, Stephenville, Texas

*cum laude*

Biology-focused coursework including; Ecology, Evolution, Parasitology, Ornithology, Invertebrate Zoology, Herpetology, and Plant Taxonomy

- Conducted independent research on the parasites communities of small river fish.
- Trained undergraduate students in the dissection of fish and the identification of aquatic parasites.

**1997**

**Associate of Applied Science - Veterinary Technology**

Lone Star College, Tomball, Texas

Veterinary nursing-focused coursework including: Veterinary Anatomy, Parasitology, Clinical Pathology, Pharmacology, and Clinic Management

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## Teaching Experience

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### Tarleton State University

BIOL 1406 Lab	8 sections
BIOL 1407 Lab	8 sections

### Tarrant County College

BIOL 1408 Lecture	3 sections
BIOL 1408 Lab	6 sections
BIOL 2401 Lecture	16 sections
BIOL 2401 Lab	16 sections

### Ranger College

BIOL 1406 Lecture	1 section
BIOL 1406 Lab	1 section
BIOL 2401 Lecture	25 sections
BIOL 2401 Lab	41 sections
BIOL 2402 Lecture	20 sections
BIOL 2402 Lab	20 sections
BIOL 2420 Lab	8 sections

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## Skills

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### Teaching Skills

- Made dramatic improvements in the BIOL 2401 and BIOL 2402 course curriculum at Ranger College including increasing rigor while maintaining student performance and developed lab protocols where none previously existed
- Evaluated and selected appropriate textbooks for BIOL 2401 and BIOL 2402 lecture and lab
- Developed and taught herpetology field skills to undergraduates
- Developed and taught parasitology field and dissection skills to undergraduates
- Taught laboratory, radiologic, and administrative skills to veterinarians and veterinary technicians

### Field Skills

- Collection and identification of fish and invertebrate species via hand capture, dip net, and seine
- Collection and identification of reptile and amphibian species via hand capture, dip net, snake hook, and hoop net
- Capture and handling of venomous reptiles
- Live trapping of small mammals
- Knowledgeable about the flora and fauna of the Texas Cross Timbers ecoregion
- Use of vehicular and hand-held GPS in conjunction with paper and electronic maps for navigation
- Driving of four-wheel drive vehicles and ATVs in harsh terrain

## **Lab Skills**

- DNA isolation
- PCR sequencing
- Gel electrophoresis
- Fish and reptile husbandry
- Dissection of fish to identify and collect ectoparasites and endoparasites
- Veterinary laboratory skills including microscopy, gram staining, use of Idexx cell counters and blood chemistry processors, and manual white cell counts on numerous species including reptiles and avians

## **Administrative and Analytic Skills**

- Worked closely with the Ranger College nursing department to improve the BIOL 2401 and BIOL 2402 curriculum to better prepare students for nursing courses
- Created procedures and methodology for field and laboratory projects in parasitology and herpetology
- Maintained and analyzed records of two 9-month long field survey projects including data analysis and budgeting
- Managed a crew of four on weekend field excursions for data collection
- Developed training protocols for veterinary nurses
- Adept in the use of Microsoft Excel, SPSS, and R analytic software

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## **Memberships**

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- Texas Community College Teacher's Association
- American Society of Parasitologists
- Southwest Association of Naturalists

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## **References**

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### **Callie Price-Sweat, M.S.**

Senior Instructor

Lab Coordinator

Department of Biology

Tarleton State University

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Ms. Price has known me since the summer of 2013 when we worked together in Dr. Herrmann's parasitology lab. Later, she was my teaching supervisor for two years while I was a graduate assistant.

**Jesse Meik, Ph.D.**

Associate Professor  
Department of Biology  
Tarleton State University  
Box T-0100  
Stephenville, Texas 76402  
Phone: 254-968-9099  
Email: meik@tarleton.edu

Dr. Meik was my thesis advisor and has known me since 2013.

**Kristin Herrmann, Ph.D.**

Associate Professor and Department Head  
Department of Biology  
Tarleton State University  
Box T-0100  
Stephenville, Texas 76402  
Phone: 254-968-9469  
Email: herrmann@tarleton.edu

Dr. Herrmann was my undergraduate advisor and my research supervisor for three years.  
She has known me since 2012.